

Supplementary Table S2

WIN-0601B	Temp (C)	Time (Hrs)	F3	F3c	F4	10 ⁴ /T	lnD3	lnD4	Bulk-Normalized		Stage	
									4He/3He	Delta		
1	78.92		1	0.000153633	0.000153633	-3.17373E-06	28.4034425	-28.1893711	-35.94868255	-0.020657936	1.964549998	1
2	98.9		1	0.000534806	0.000688438	-5.28387E-06	26.87810778	-25.24073204	-34.14013846	-0.009879979	2.289613348	1
3	119.1		1	0.001512925	0.002201363	3.20409E-05	25.49394519	-22.96775639	-32.07509439	0.021178094	2.181829336	1
4	139		1	0.002638131	0.004839494	4.0114E-05	24.26301104	-21.52118836	-30.09764578	0.015205472	1.511190629	1
5	159.2		1	0.003456934	0.008296428	5.42824E-05	23.12940904	-20.6272561	-29.06206866	0.015702474	0.455327457	1
6	179.2		1	0.004593345	0.012889773	0.000112802	22.10677573	-19.86503017	-27.67847794	0.024557689	-0.541375921	1
7	199.2		1	0.006789557	0.019679329	0.000947277	21.17074203	-19.04423903	-24.1543861	0.139519669	-1.330562726	2
8	219.2		1	0.034359976	0.054039306	0.02883005	20.31075454	-16.6058407	-17.64159585	0.839059081	-0.371342886	2 X
9	238.4		1	0.136679718	0.190719024	0.133259661	19.54843124	-13.91014124	-14.19247124	0.974977582	1.01316049	2
10	229.2		1	0.052398743	0.243117766	0.051562318	19.90643973	-14.21894928	-14.39975031	0.984037324	1.320127057	2 Tcycle
11	219.2		1	0.025035688	0.268153454	0.023485364	20.31075454	-14.75486426	-14.96929721	0.938075463	1.479633555	2 Tcycle
12	209.2		1	0.011079596	0.27923305	0.011237208	20.73183373	-15.48293916	-15.61514429	1.014225433	1.475814856	2 Tcycle
13	199.2		1	0.005057233	0.284290283	0.005022861	21.17074203	-16.2295328	-16.37922553	0.993203294	1.484143503	2 Tcycle
14	189.6		2	0.004480166	0.288770449	0.004473679	21.60994057	-17.02188355	-17.16454842	0.998552105	1.447214238	2 Tcycle
15	179.6		2	0.001971545	0.290741994	0.001876253	22.08724462	-17.8280175	-18.01787422	0.951666102	1.46204324	2 Tcycle
16	184.6		2	0.002984439	0.293726433	0.002921132	21.8459858	-17.40219081	-17.56346898	0.978787769	1.472904767	2 Tcycle
17	194.6		2	0.006567573	0.300294006	0.006845666	21.37894174	-16.59197433	-16.68820353	1.042343343	1.479805465	2 Tcycle
18	204.2		1	0.007354421	0.307648426	0.007451405	20.94898921	-15.75477177	-15.87625068	1.013187217	1.577489669	2 Tcycle
19	214.2		1	0.014925853	0.322574279	0.014947749	20.51913409	-14.99838986	-15.12793279	1.001467004	1.594520777	2 Tcycle
20	224.2		1	0.027619102	0.350193381	0.028899462	20.10656479	-14.29294383	-14.37025271	1.046357762	1.590347616	2 Tcycle
21	234.2		1	0.048221918	0.3984153	0.05072938	19.71025919	-13.58254639	-13.63916342	1.051998385	1.619099412	2 Tcycle
22	238.5		0.5	0.028894991	0.427310291	0.030981807	19.54461057	-13.254851	-13.2784906	1.072220671	1.661879189	2 Tcycle
23	257.8		0.5	0.079382158	0.506692449	0.08619866	18.83416518	-12.04360608	-12.03380622	1.08586945	1.651158017	2 Plateau
24	276.8		0.5	0.143776399	0.650468847	0.155679577	18.18347122	-11.04399251	-11.00137855	1.082789516	1.531577997	2 Plateau
25	296		0.5	0.170282038	0.820750885	0.182090655	17.57006062	-10.24330497	-10.16565616	1.069347406	1.277199292	3 Plateau
26	317.4		0.5	0.058079326	0.878830211	0.0629111	16.9333672	-10.72545145	-10.57089244	1.083192666	-0.300059865	3 Plateau
27	338.3		0.5	0.008299846	0.887130057	0.007526291	16.35456701	-12.41314422	-12.39425497	0.906798838	-2.983288956	3
28	338.8		0.5	0.003403935	0.890533991	0.003056436	16.34120435	-13.2469045	-13.2762927	0.897912664	-3.840033029	3
29	338.8		0.5	0.002176658	0.892710649	0.0019516	16.34120435	-13.66495458	-13.69967082	0.896603909	-4.258083106	3
30	358.8		0.5	0.004907798	0.897618447	0.004416741	15.82403671	-12.81310615	-12.84969063	0.899943609	-4.295763009	3
31	378.6		0.5	0.007749496	0.905367943	0.006875913	15.34330648	-12.32680331	-12.34526104	0.887272352	-4.636316165	3
32	378.5		0.5	0.003751471	0.909119414	0.003413096	15.34566101	-12.992513	-12.98650361	0.909802116	-5.297976058	3
33	378.5		0.5	0.0024977	0.911617114	0.002274284	15.34566101	-13.3650961	-13.35804259	0.910551383	-5.670559152	3
34	398.6		0.5	0.005301522	0.916918636	0.004865999	14.88649051	-12.56773636	-12.55211897	0.917849438	-5.66297268	3
35	418.3		0.5	0.007645872	0.924564508	0.007201014	14.4623617	-12.12259316	-12.07856909	0.941817322	-5.947331026	3
36	419.5		2	0.009959733	0.934524241	0.009360477	14.437306	-13.12587981	-13.07839797	0.939832093	-6.993713491	3
37	438.1		0.5	0.003498942	0.938023183	0.003269868	14.05975395	-12.68670672	-12.64005689	0.934530466	-7.203929918	3
38	458		0.5	0.005608278	0.943631462	0.005207207	13.67708405	-12.14028836	-12.09672647	0.928485915	-7.315703802	3
39	457.5		0.5	0.002911927	0.946543389	0.002697424	13.68644358	-12.72151429	-12.67692617	0.926336391	-7.880831338	3
40	477.8		0.5	0.004789538	0.951332927	0.004508398	13.31646581	-12.15069127	-12.0857593	0.941301391	-7.946370073	3
41	497.6		0.5	0.005846788	0.957179715	0.005528521	12.97437561	-11.8406188	-11.76291106	0.945565441	-8.224692752	3
42	497.8		0.5	0.002746057	0.959925772	0.002567286	12.97100979	-12.49871111	-12.42453982	0.934898986	-8.888574262	3
43	850		2	0.040074228		1	0.034697396	8.90353025		0.8658282	-3.38592797	3

YAN-0201D2	Temp (C)	Time (Hrs)	F3	F3c	F4	10 ⁴ /T	lnD3	lnD4	Bulk-Normalized		Stage	
									4He/3He	Delta		
1	49.33		0.5	6.32039E-05	6.32039E-05	-4.03637E-05	31.00967502	-29.27261855	-30.16948831	-0.6386269	5.364022478	1
2	49.9		5	0.000500041	0.000563245	0.000435657	30.95496053	-27.21318121	-27.91916445	0.871242525	7.329350903	1
3	64.9		5	0.00165917	0.002222414	0.000581151	29.58142287	-24.52162509	-26.27909451	0.350265972	7.65842224	1
4	79.88		4	0.003493978	0.005716392	0.000864868	28.32620457	-22.50647926	-24.93852158	0.247530922	7.514592599	1
5	99.77		2	0.006903798	0.01262019	0.001468919	26.81540277	-20.29516619	-23.11231304	0.212769733	7.12732657	1
6	129.78		2	0.027117369	0.039737558	0.006810493	24.81820664	-17.87786155	-20.62010939	0.25114874	6.109453865	1
7	149.55		1	0.021311607	0.061049166	0.006954945	23.65744026	-16.77073023	-19.20045144	0.32634542	5.220067027	1
8	174.44		1	0.041616288	0.102665453	0.018012456	22.34187538	-15.54778945	-17.59753657	0.432822267	4.1802362	1
9	199.16		1	0.06538989	0.168055343	0.046447701	21.17253499	-14.54491723	-15.84570712	0.710319297	3.171842948	1
10	199.1		1	0.042891168	0.210946511	0.040235787	21.17522499	-14.58147178	-15.34822317	0.938090259	3.139915194	2 X
11	199.14		1	0.044148521	0.255095032	0.043970155	21.17343158	-14.30288955	-14.87550082	0.995959864	3.415403762	2
12	189.16		1	0.021727898	0.27682293	0.021733878	21.63050767	-14.8461932	-15.34471433	1.000275214	3.658279994	2 Tcycle
13	179.8		2	0.017554111	0.29437704	0.017968742	22.077492	-15.66039676	-16.10264075	1.02362017	3.612889473	2 Tcycle
14	169.86		3	0.010606331	0.304983371	0.010893391	22.57285389	-16.50619898	-16.92368479	1.027065018	3.619109705	2 Tcycle
15	159.86		3	0.004497624	0.309480995	0.004730448	23.09415487	-17.33083409	-17.71374655	1.051765997	3.691112281	2 Tcycle

16	149.89	4	0.00234267	0.311823666	0.002597085	23.63842663	-18.25586776	-18.58079298	1.108600358	3.702226035	2	Tcycle
17	139.92	5	0.00102184	0.312845505	0.001289179	24.20897184	-19.30140271	-19.49367473	1.261625349	3.638028866	2	Tcycle
18	174.89	4	0.021485033	0.334330539	0.022032422	22.31943576	-15.98411282	-16.36933174	1.025477674	3.705316699	2	Tcycle
19	194.74	3	0.064688025	0.399018563	0.066609046	21.37254483	-14.41660507	-14.75504538	1.029696696	3.644172034	2	Tcycle
20	204.57	2	0.08930614	0.488324704	0.093120418	20.93276396	-13.39585026	-13.67081642	1.042710134	3.908503755	2	
21	209.16	1	0.064313045	0.552637749	0.067250842	20.73355311	-12.7578071	-13.00004671	1.045679655	4.023904244	2	
22	214.12	1	0.076806543	0.629444292	0.08286821	20.52250292	-12.32823521	-12.52092863	1.078921227	4.270469825	2	Plateau
23	219.08	1	0.074893205	0.704337497	0.084182595	20.31570607	-12.07176914	-12.20730602	1.12403515	4.171245301	2	Plateau
24	224.08	1	0.063381808	0.767719305	0.072253157	20.11141725	-11.95589924	-12.06798397	1.139966793	3.935738437	2	Plateau
25	229.1	1	0.04782773	0.815547035	0.055122006	19.91040319	-11.97343902	-12.07545331	1.15251144	3.572454464	3	
26	234.07	1	0.026632629	0.842179664	0.031054805	19.71531091	-12.34982608	-12.44777402	1.166043555	2.860508687	3	
27	239.23	1	0.011284162	0.853463826	0.013379156	19.5167649	-13.08506353	-13.17348394	1.185657907	1.783772096	3	
28	244.5	1	0.003911852	0.857375678	0.004666502	19.31807206	-14.09008809	-14.17597085	1.192913732	0.436995844	3	
29	1300	2	0.142624322	1	0.182506352	6.356672917			1.279629938	-7.766522582	3	

LYNN-A1D1	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Delta	Stage
									4He/3He			
1	50.12	5	0.001445384	0.001445384	0.002211309	30.93389427	-25.31567636	-24.46525764	1.529910695	9.190621777	1	
2	65.28	5	0.001399985	0.002845369	0.001172714	29.5482079	-24.25950277	-24.1711735	0.837661708	7.863414821	1	
3	80.75	4	0.003510386	0.006355755	0.000901385	28.25656965	-22.35423136	-23.89586414	0.256776473	7.547068442	1	
4	101.24	2	0.006643	0.012998756	0.000720101	26.71011512	-20.2796467	-23.23546195	0.108400037	6.961751303	1	
5	127	2	0.016987188	0.029985943	0.002405073	24.99062851	-18.54283231	-21.73956235	0.141581598	5.741048733	1	
6	150.91	1	0.017296539	0.047282482	0.003335935	23.58156865	-17.24519692	-20.33917424	0.192867185	4.615101148	1	
7	174.05	1	0.030189919	0.077472401	0.010014053	22.36135957	-16.20912981	-18.68878688	0.331701881	3.552408656	1	
8	198.93	1	0.052413881	0.129886282	0.035174455	21.18285036	-15.06146125	-16.54282439	0.671090442	2.673041376	2	
9	199.71	1	0.045232083	0.175118365	0.04208192	21.14790847	-14.78011215	-15.66672988	0.930355555	2.89429042	2	X
10	199.8	1	0.043550003	0.218668369	0.04208192	21.14388413	-14.52080907	-15.13006631	0.966289706	3.146671638	2	
11	189.78	1	0.018669961	0.237338329	0.018913909	21.60153803	-15.19111833	-15.67522123	1.013066342	3.263527081	2	T
12	179.94	2	0.017883159	0.255221488	0.018199709	22.07067029	-15.83158744	-16.27270764	1.017701054	3.429965452	2	T
13	169.96	3	0.012732933	0.267954421	0.013214263	22.5677597	-16.5005331	-16.89418454	1.037802023	3.616013584	2	T
14	159.96	3	0.004865937	0.272820358	0.005100351	23.0888227	-17.42012193	-17.78883762	1.048174463	3.592653119	2	T
15	149.97	4	0.002277177	0.275097535	0.002350695	23.63395727	-18.45019847	-18.82840067	1.032284697	3.500208036	2	T
16	139.98	5	0.001031595	0.27612913	0.001033088	24.20545591	-19.45738054	-19.8634978	1.001446844	3.476003625	2	T
17	174.97	4	0.024703876	0.300833006	0.023560394	22.31545122	-15.99856666	-16.44089215	0.953712472	3.684009432	2	T
18	194.94	3	0.073921794	0.3747548	0.072759432	21.36341302	-14.39925493	-14.76869711	0.98427579	3.645815466	2	T
19	204.71	2	0.095772335	0.470527135	0.094534987	20.92663123	-13.40279124	-13.72701393	0.987080317	3.89101448	2	
20	209.4	1	0.078969092	0.549496227	0.077484316	20.72324111	-12.58855194	-12.9012165	0.981198009	4.355422777	2	
21	214.41	1	0.09114576	0.640641987	0.091316587	20.51029617	-12.14102063	-12.43194718	1.00187422	4.436688776	2	
22	219.38	1	0.091203371	0.731845358	0.090015532	20.30333178	-11.79614182	-12.12279265	0.98697593	4.425588831	2	
23	224.50	1.00	0.066073608	0.797918966	0.066596539	20.09444389	-11.78101334	-12.13153583	1.007914371	4.081430145	3	
24	229.69	1.00	0.030844728	0.828763694	0.034344066	19.8870416	-12.29554254	-12.58831053	1.113450094	3.210169018	3	
25	234.70	1.00	0.016618083	0.845381778	0.01852919	19.6908536	-12.77032468	-13.08749181	1.115001629	2.397943512	3	
26	239.85	1.00	0.008116052	0.85349783	0.009392441	19.49317739	-13.40344283	-13.70077854	1.157267121	1.424822275	3	
27	244.84	1.00	0.004335694	0.857833524	0.004923483	19.305392	-13.9853743	-14.31145974	1.135569744	0.519899932	3	
28		2	0.142166476	1	0.217632154				1.530826114		3	

CAPL2-D1	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Delta	Stage
									4He/3He			
1	99.12	1.00	0.004091436	0.004091436	3.84177E-05	26.86222365	-21.62519684	-30.96146283	0.009389784	5.877827849	1	
2	138.8	1.00	0.01192476	0.016016195	0.000262335	24.27479063	-18.96327245	-26.86237134	0.021999223	4.08936743	1	
3	159.1	1.00	0.011879144	0.027895339	0.000483719	23.13475998	-18.18602744	-25.08745254	0.040720013	2.905759725	1	
4	179	1.00	0.01132901	0.03922435	0.000894778	22.11655424	-17.80914461	-23.6524945	0.078981164	1.531328689	1	
5	199.3	1.00	0.012197474	0.051421823	0.002438477	21.16626098	-17.43479617	-21.79427829	0.19991657	0.27117272	2	
6	219.10	1.00	0.040153894	0.091575717	0.035094573	20.31488065	-15.78744188	-17.11609637	0.874001724	0.454152838	2	X
7	208.90	1.00	0.028611436	0.120187153	0.03223738	20.74473602	-15.64538369	-16.26338176	1.126730594	1.335562268	2	T
8	199.20	1.00	0.015104543	0.135291696	0.017214441	21.17074203	-16.07764524	-16.52135531	1.139686306	1.636031064	2	T
9	189.20	1.00	0.0070673	0.142358996	0.008054547	21.62863631	-16.74406475	-17.13432921	1.139692142	1.757189716	2	T
10	179.10	1.00	0.002930856	0.145289852	0.003469243	22.1116639	-17.58435097	-17.83507507	1.183695871	1.747710941	2	T
11	169.60	2.00	0.002529931	0.147819783	0.002984741	22.58610954	-18.40330189	-18.643592	1.17977201	1.744806524	2	T
12	159.60	2.00	0.000933893	0.148753676	0.001179057	23.10803004	-19.38655584	-19.55031337	1.262517477	1.659255831	2	T
13	169.60	2.00	0.002525342	0.151279019	0.002927779	22.58610954	-18.37859917	-18.61938801	1.159359222	1.769509243	2	T
14	179.60	2.00	0.006312607	0.157591626	0.007293305	22.08724462	-17.42930763	-17.6549941	1.155355429	1.860753109	2	T
15	189.50	2.00	0.015148104	0.172739729	0.017351101	21.61461148	-16.47673629	-16.67188306	1.145430561	2.000395453	2	T
16	198.90	1.00	0.016388507	0.189128236	0.019129449	21.18419659	-15.59881342	-15.72669926	1.167247865	2.13800471	2	T
17	209.20	1.00	0.035993994	0.22512223	0.041787117	20.73183373	-14.65103148	-14.72146187	1.160946924	2.307722536	2	T

18	219.20	1.00	0.073030917	0.298153147	0.08223325	20.31075454	-13.65271437	-13.67373203	1.126005992	2.581783446	2	Tcycle
19	237.70	0.50	0.12453281	0.422685958	0.145482576	19.57521777	-11.98992355	-11.8828026	1.168226876	2.979451025	2	
20	257.30	0.50	0.292578734	0.715264691	0.321017222	18.85191818	-10.3287652	-10.17928275	1.097199438	3.39653407	2	
21	277.40	0.50	0.163009897	0.878274589	0.163959907	18.16365453	-9.96981596	-9.778476598	1.005827928	2.571669827	3	
22	297.90	0.50	0.020055664	0.898330253	0.015184081	17.51160144	-11.47497715	-11.52648488	0.757096886	-0.055022681	3	
23	317.90	0.50	0.01487026	0.913200513	0.011383142	16.91904238	-11.62916517	-11.64921087	0.765497136	-1.228412275	3	
24	318.40	0.50	0.00435061	0.917551123	0.003484813	16.90474178	-12.75250518	-12.72820578	0.800994186	-2.376349316	3	
25	318.60	0.50	0.002326306	0.919877429	0.002170912	16.89902831	-13.33844192	-13.15792132	0.93320103	-2.972113235	3	
26	338.10	0.50	0.004861403	0.924738833	0.004094954	16.3599182	-12.55591863	-12.47228892	0.842339848	-3.116859325	3	
27	358.00	0.50	0.006741595	0.931480428	0.005620237	15.84409411	-12.15093377	-12.07105726	0.833665755	-3.599091897	3	
28	358.20	0.50	0.002998757	0.934479185	0.002597842	15.839075	-12.89145079	-12.766242	0.86630641	-4.384241793	3	
29	377.40	0.50	0.004964609	0.939443793	0.004226124	15.37160864	-12.32571563	-12.21027738	0.851250151	-4.586548772	3	
30	397.60	0.50	0.006526689	0.945970482	0.005409353	14.90868431	-11.95601492	-11.85656649	0.828805192	-5.01307791	3	
31	417.80	0.50	0.006494403	0.952464885	0.005103245	14.47282727	-11.84006371	-11.78423186	0.78579129	-5.646800813	3	
32	419.50	2.00	0.006044904	0.958509789	0.005010262	14.437306	-13.16613403	-13.04463464	0.828840559	-7.033967714	3	
33	438.00	0.50	0.001469504	0.959979293	0.001394778	14.061731	-13.10737773	-12.83575514	0.949148726	-7.621200407	3	
34	457.70	0.50	0.002263867	0.96224316	0.001949448	13.68269823	-12.62817038	-12.44233761	0.861114229	-7.79392943	3	
35	457.70	0.50	0.001180791	0.963423951	0.001058114	13.68269823	-13.23395909	-12.99808496	0.896105648	-8.399718137	3	
36	477.00	0.50	0.001921289	0.965345241	0.001677184	13.3306672	-12.70436063	-12.48382903	0.872946941	-8.475613047	3	
37	497.10	0.50	0.002689592	0.968034833	0.002045056	12.98279779	-12.30074472	-12.20768907	0.760359236	-8.670332518	3	
38	497.30	0.50	0.001100025	0.969134858	0.00104514	12.97942761	-13.13667696	-12.810129	0.950106079	-9.512061478	3	
	850	2	0.030865142		0.021011901	8.90353025			0.680764753	-3.38592797	3	

CAPL3D1	Bulk-Normalized											
	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	4He/3He	Delta	Stage	
1	79.05	1	0.000234735	0.000234735	2.56028E-05	28.39295855	-27.3415857	-31.77309265	0.109071301	2.794302995	1	
2	99.14	1	0.001511922	0.001746657	3.32171E-05	26.86078057	-23.34580778	-30.31959847	0.021970098	4.154734809	1	
3	119.2	1	0.003835271	0.005581928	9.22534E-05	25.48744743	-21.10696626	-28.38736056	0.024053957	4.031443321	1	
4	139.1	1	0.004463652	0.01004558	5.37527E-05	24.25712553	-20.19798868	-28.39945636	0.012042322	2.824267234	1	
5	159.2	1	0.004242779	0.014288359	0.000126153	23.12940904	-19.80589821	-27.13723386	0.029733562	1.276685343	1	
6	179.2	1	0.004435963	0.018724322	0.000243428	22.10677573	-19.45635215	-25.95531576	0.054876056	-0.132697899	1	
7	199.2	1	0.005868267	0.02459259	0.001170345	21.17074203	-18.90488617	-23.44448536	0.199436211	-1.191209874	2	
8	219.2	1	0.023582227	0.048174817	0.018962468	20.31075454	-16.99522724	-18.3891486	0.804099966	-0.760729425	2	X
9	239.2	1	0.218246872	0.266421689	0.218547756	19.51790768	-13.14504937	-13.35552942	1.001378641	1.725751843	2	
10	229.2	1	0.124570782	0.39099247	0.128544749	19.90643973	-12.81239599	-12.88877939	1.031901278	2.726680356	2	Tcycle
11	219.2	1	0.056920132	0.447912602	0.064040943	20.31075454	-13.24439706	-13.19986602	1.125101811	2.990100755	2	Tcycle
12	209.2	1	0.026199539	0.474112141	0.028756446	20.73183373	-13.86943082	-13.82982444	1.097593586	3.089323193	2	Tcycle
13	199.2	1	0.011646253	0.485758394	0.012879432	21.17074203	-14.61255403	-14.55809606	1.105886379	3.101122273	2	Tcycle
14	189.6	2	0.01041481	0.496173204	0.011494981	21.60994057	-15.37815503	-15.32131755	1.10371481	3.090942753	2	Tcycle
15	180	2	0.004324694	0.500497898	0.004829524	22.06774799	-16.23089982	-16.15941728	1.116731956	3.025626716	2	Tcycle
16	195.1	2	0.01588522	0.516383118	0.01784693	21.35611319	-14.89391223	-14.81188329	1.123492781	3.138602452	2	Tcycle
17	204.2	1	0.016509841	0.532892959	0.018170288	20.94898921	-14.1048844	-14.03697674	1.100573183	3.227377039	2	Tcycle
18	214.2	1	0.033190482	0.566083441	0.036903322	20.51913409	-13.31825407	-13.23054726	1.111864615	3.274656574	2	Tcycle
19	224.2	1	0.060004646	0.626088087	0.067559835	20.10656479	-12.55835201	-12.43765219	1.12591007	3.32493943	2	Tcycle
20	234.2	1	0.09006937	0.716157457	0.101524818	19.71025919	-11.86864628	-11.70784589	1.127184725	3.332999528	2	Tcycle
21	238.5	0.5	0.047676325	0.763833782	0.05415393	19.54461057	-11.53214523	-11.3175376	1.135866296	3.384584953	2	Tcycle
22	258.5	0.5	0.089948614	0.853782396	0.101905381	18.80936706	-10.5401958	-10.22714756	1.132928857	3.111915556	3	
23	278.6	0.5	0.022805851	0.876588247	0.023658412	18.12415043	-11.55572232	-11.22465654	1.037383449	0.91781642	3	
24	298.6	0.5	0.008939378	0.885527625	0.006621862	17.49016178	-12.35707007	-12.3385326	0.74075192	-0.973991806	3	
25	318.6	0.5	0.010121988	0.895649613	0.007235346	16.89902831	-12.13795987	-12.16486619	0.714814741	-1.771631182	3	
26	338.7	0.5	0.011529733	0.907179346	0.00799667	16.34387513	-11.92967527	-11.96204668	0.693569392	-2.518210044	3	
27	338.7	0.5	0.004635407	0.911814754	0.003301536	16.34387513	-12.75626121	-12.76416545	0.712242887	-3.344795986	3	
28	338.7	0.5	0.002899335	0.914714089	0.002022787	16.34387513	-13.18311116	-13.21236699	0.697672681	-3.771645928	3	
29	358.8	0.5	0.005629658	0.920343747	0.004156522	15.82403671	-12.46883206	-12.44098423	0.738325823	-3.951488913	3	
30	378.6	0.5	0.007932062	0.928275808	0.005755041	15.34330648	-12.03964127	-12.02766395	0.725541696	-4.349154125	3	
31	378.6	0.5	0.003694158	0.931969967	0.002515794	15.34330648	-12.72457399	-12.77661016	0.681019609	-5.034086839	3	
32	378.7	0.5	0.00224957	0.934219537	0.001553362	15.34095267	-13.17726543	-13.21746602	0.690514986	-5.490826829	3	
33	398.5	0.5	0.004570328	0.938789865	0.003177584	14.88870692	-12.41577037	-12.45101572	0.695263735	-5.507194472	3	
34	418.5	0.5	0.006194311	0.944984176	0.004440403	14.45817972	-12.02263136	-12.02888723	0.716851813	-5.854562254	3	
35	419.6	2	0.007412994	0.95239717	0.005385993	14.43522194	-13.10401068	-13.09662851	0.726561083	-6.975428944	3	
36	438.3	0.5	0.00256659	0.95496376	0.001754278	14.05580153	-12.67755111	-12.73216771	0.683505256	-7.201572476	3	
37	458.2	0.5	0.003886699	0.958850459	0.002826385	13.67334382	-12.18994083	-12.18381097	0.727194316	-7.371789469	3	
38	458.2	0.5	0.0021841	0.961034559	0.001431599	13.67334382	-12.6936855	-12.79369705	0.655464039	-7.875534133	3	
39	478	0.5	0.003154961	0.96418952	0.002381518	13.31292019	-12.25660032	-12.21634651	0.754848716	-8.058377591	3	
40	497.7	0.5	0.00409995	0.96828947	0.002896695	12.97269248	-11.89190743	-11.9175707	0.706519538	-8.27887636	3	

41	497.8	0.5	0.002062116	0.970351586	0.001347812	12.97100979	-12.48430612	-12.59280616	0.653606426	-8.874169275	3
42	850	2	0.029648414		0.021674845	8.90353025			0.731062547		

CAP-L4D1	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage	
									4He/3He	Delta		
1	73.79		1	0.000353568	0.000353568	1.90601E-06	28.82342768	-26.52234486	-36.96847629	0.005390777	4.353950755	1
2	99.06		1	0.002262089	0.002615657	2.84319E-05	26.86655383	-22.53839903	-31.4376595	0.012568862	4.97207355	1
3	124.1		1	0.005969327	0.008584984	6.56964E-05	25.17306482	-20.24038361	-29.23422307	0.011005669	4.357287877	1
4	149.2		1	0.006830353	0.015415337	9.63119E-05	23.6770451	-19.34354519	-28.02662601	0.014100579	2.680972391	1
5	196.9		1	0.012769693	0.02818503	0.001221979	21.27433252	-18.12084854	-23.76835249	0.095693681	-0.228996605	1
6	189.3		1	0.001831764	0.030016794	0.000666001	21.62395935	-19.77379241	-23.5982194	0.363584375	-1.280582329	2 T
7	179.4		1	0.000842197	0.030858991	0.000372422	22.09700586	-20.50589515	-23.91931482	0.442203712	-1.199045083	2 T
8	169.3		1	0.000338161	0.031197152	0.00015796	22.60142389	-21.39918109	-24.66635417	0.467113514	-1.224732004	2 T
9	159		1	0.000166733	0.031363886	5.48561E-05	23.14011339	-22.09820471	-25.68281142	0.329004472	-0.997209688	2 T
10	149.6		2	9.68321E-05	0.031460718	3.82903E-05	23.65464222	-23.33056624	-26.71797482	0.395429993	-1.344581617	2 T
11	139.6		2	4.17975E-05	0.031502515	8.80042E-06	24.22774076	-24.16850268	-28.1796406	0.210548634	-1.196788566	2 T
12	144.6		2	5.98495E-05	0.031562365	2.29623E-05	23.93776182	-23.80789457	-27.21473762	0.383668033	-1.334944236	2 T
13	154.7		2	0.000181679	0.031744044	6.88359E-05	23.37267734	-22.69366259	-26.10015894	0.378887087	-1.192657569	2 T
14	164.3		1	0.000227031	0.031971075	0.000105705	22.8597554	-21.77123564	-24.94706378	0.465598029	-1.152456354	2 T
15	174.2		1	0.000603245	0.03257432	0.000332172	22.35386163	-20.78105167	-23.72823556	0.550641258	-1.032409672	2 T
16	184.4		1	0.001586231	0.034160551	0.001000064	21.85553491	-19.78090032	-22.4300611	0.630465236	-0.889380266	2 T
17	194.5		1	0.004156406	0.038316957	0.003058534	21.38351331	-18.73506161	-20.87894585	0.735860285	-0.655418715	2 T
18	218.2		0.5	0.016214655	0.054531612	0.014385309	20.35209118	-16.43295623	-17.71678092	0.887179494	-0.12735941	2 X
19	234.3		0.5	0.061501142	0.116032754	0.05883431	19.70637501	-14.41836812	-15.04811831	0.956637686	0.776596898	2
20	248.3		0.5	0.173548913	0.289581667	0.176677144	19.17729408	-12.39594073	-12.59156772	1.018025068	1.889005092	2
21	258.8		0.5	0.338449387	0.628031054	0.371566773	18.79875928	-10.57244193	-10.52670692	1.097850336	3.061424036	2
22	265.8		0.5	0.230493207	0.85852426	0.259161551	18.5545969	-9.866717793	-9.640784711	1.124378264	3.347188878	2
23	300		0.5	0.051221038	0.909745298	0.046481169	17.44743959	-10.58445753	-10.40901548	0.907462457	0.725138564	3
24	500		0.5	0.033015713	0.942761011	0.025009568	12.93410076	-10.57139976	-10.51855986	0.757505012	-7.02474646	3
	850		2	0.057238989		0.040583247				0.709014051		

CAPL4D2	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
1	79.18	1	0.000548922	0.000548922	4.42813E-05	28.38248233	-25.64258477	-30.67737583	0.080669435	4.475284837	1
2	98.95	1	0.00200648	0.002555402	8.84189E-05	26.8744961	-22.61381054	-28.6003686	0.044066678	4.910322755	1
3	119.19	1	0.004545585	0.007100988	0.000103825	25.48809706	-20.66121241	-27.70439101	0.022840743	4.478314531	1
4	135.18	1	0.012671346	0.019772333	0.000613732	24.48999584	-18.61251153	-24.84796419	0.048434664	4.810281306	1
5	158.9	1	0.000928293	0.020700626	0.000134584	23.14546927	-20.81676263	-25.84146059	0.144979685	0.293444525	1
6	179.2	1	0.002697334	0.02339796	0.000311897	22.10677573	-19.66429728	-24.78320264	0.115631688	-0.340643025	1
7	199.2	1	0.005818862	0.029216822	0.001591209	21.17074203	-18.71888684	-22.54706326	0.27345705	-1.005210539	2
8	219.2	1	0.032525697	0.061742519	0.029799636	20.31075454	-16.45054568	-17.4768345	0.916187481	-0.216047859	2 X
9	238.7	1	0.248823127	0.310565646	0.261733371	19.53697372	-12.81364119	-12.90771004	1.051885227	2.089953616	2
10	229.2	1	0.133637075	0.444202721	0.145205364	19.90643973	-12.54465122	-12.50092648	1.086564965	2.994425117	2 T
11	219.1	1	0.060946931	0.505149652	0.066247169	20.31488065	-12.97467125	-12.89787249	1.086964799	3.266923468	2 T
12	209.2	1	0.027965697	0.533115349	0.032476933	20.73183373	-13.59707	-13.4368421	1.161313184	3.361684013	2 T
13	199.2	1	0.012344574	0.545459923	0.014465349	21.17074203	-14.34390311	-14.16306811	1.171798166	3.369773188	2 T
14	189.6	2	0.011237266	0.556697188	0.012993323	21.60994057	-15.08933098	-14.91492915	1.156270885	3.379766809	2 T
15	179.5	2	0.004729031	0.56142622	0.005469259	22.09212416	-15.92661566	-15.74751751	1.156528343	3.371837893	2 T
16	184.6	2	0.007045407	0.568471627	0.00831293	21.8459858	-15.50704961	-15.3042909	1.179907645	3.368045965	2 T
17	194.6	2	0.015544043	0.584015669	0.01848802	21.37894174	-14.67544014	-14.456904	1.189395876	3.39633966	2 T
18	204.2	1	0.01595375	0.59996942	0.018856593	20.94898921	-13.89990551	-13.67667213	1.18195366	3.432355933	2 T
19	214.3	1	0.03026658	0.630236	0.036151245	20.51492461	-13.17548755	-12.92427478	1.194427805	3.410182772	2 T
20	224.2	1	0.049975232	0.680211231	0.055776893	20.10656479	-12.52362235	-12.31360266	1.116090739	3.359669091	2 T
21	234.2	1	0.068415623	0.748626854	0.07425385	19.71025919	-11.97178161	-11.75093901	1.085334702	3.229864201	2 T
22	238.4	0.5	0.029677289	0.778304144	0.033786126	19.54843124	-11.90049303	-11.58545921	1.138450518	3.022808703	3
23	258.6	0.5	0.0512628	0.829566944	0.052574221	18.80582981	-11.14361408	-10.87488275	1.025582306	2.502413189	3
24	278.6	0.5	0.020492934	0.850059878	0.01999172	18.12415043	-11.84894859	-11.56450633	0.975542121	0.624590155	3
25	298.6	0.5	0.012658897	0.862718775	0.009608071	17.49016178	-12.2146811	-12.15043388	0.758997451	-0.831602836	3
26	318.6	0.5	0.013710035	0.87642881	0.010305236	16.89902831	-12.03043248	-12.01314613	0.751656462	-1.664103797	3
27	338.7	0.5	0.013443063	0.889871873	0.0100924	16.34387513	-11.92834511	-11.92121907	0.750751496	-2.516879881	3
28	338.8	0.5	0.005065223	0.894937096	0.003858887	16.34120435	-12.81175868	-12.79854854	0.76183962	-3.404887201	3
29	338.4	0.5	0.00306735	0.898004446	0.002361825	16.35189273	-13.26857572	-13.2492331	0.769988825	-3.843320218	3
30	358.7	0.5	0.006950711	0.904955157	0.005331575	15.82654111	-12.43582415	-12.38233653	0.767054582	-3.91417344	3
31	378.5	0.5	0.009563463	0.91451862	0.00771345	15.34566101	-12.02866385	-11.91684487	0.806554041	-4.334126904	3
32	378.6	0.5	0.00450588	0.9190245	0.003477969	15.34330648	-12.7007832	-12.62439457	0.771873398	-5.010296052	3

33	378.6	0.5	0.002785567	0.921810067	0.002184255	15.34330648	-13.13706498	-13.04099469	0.784132944	-5.446577832	3
34	398.4	0.5	0.005690429	0.927500495	0.004452703	14.89092398	-12.36763417	-12.26797905	0.782489975	-5.455244926	3
35	418.3	0.5	0.007417197	0.934917692	0.006002293	14.4623617	-12.01112186	-11.86554857	0.809240023	-5.83585973	3
36	419.6	2	0.007997228	0.942914921	0.006266255	14.43522194	-13.20283477	-13.07194462	0.783553307	-7.074253027	3
37	438.4	0.5	0.002602383	0.945517303	0.002025541	14.05382615	-12.84969776	-12.71270372	0.778340932	-7.377116776	3
38	458.2	0.5	0.004389538	0.949906841	0.003260357	13.67334382	-12.26177542	-12.16386742	0.742756432	-7.44362406	3
39	458.1	0.5	0.002368126	0.952274967	0.00173068	13.67521368	-12.81249068	-12.72417975	0.730822523	-7.991123162	3
40	478	0.5	0.003897102	0.956172069	0.00278647	13.31292019	-12.24775433	-12.17593715	0.715010827	-8.0495316	3
41	497.9	0.5	0.004633913	0.960805982	0.003463119	12.96932754	-11.97633787	-11.84968276	0.747342169	-8.3690945	3
42	497.8	0.5	0.002384682	0.963190664	0.00167656	12.97100979	-12.55305794	-12.4773563	0.703054179	-8.9429211	3
43	517.6	0.5	0.00331797	0.966508634	0.002386516	12.64622194	-12.14435979	-12.03815611	0.719269866	-9.092858047	3
44	850	2	0.033491366		0.021545891	8.90353025			0.64332672		3

CAP-L4M	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
	180	1	0.019357809	0.019357809	0.000752455	22.07505519	-18.5167969	-25.01181689	0.038870876	0.752298024	1
2	180	2	0.004672522	0.024030331	0.001094556	22.07505519	-19.82425083	-24.09048082	0.234253839	-0.555155906	1
3	180	4	0.006478352	0.030508683	0.00352452	22.07505519	-19.96190063	-22.59288573	0.544045791	-0.692805709	2
4	180	8	0.012281793	0.042790476	0.008942727	22.07505519	-19.71976324	-21.35169267	0.728128795	-0.450668315	2
5	180	12	0.023868335	0.066658811	0.021288219	22.07505519	-19.01497355	-19.95938526	0.891902135	0.254121376	2 X
6	180	24	0.057430083	0.124088894	0.058842559	22.07505519	-18.2382326	-18.6216036	1.024594707	1.030862327	2
7	180	24	0.080645582	0.204734476	0.087193876	22.07505519	-17.29125583	-17.41112743	1.08119841	1.977839091	2
8	180	24	0.106199844	0.31093432	0.112859585	22.07505519	-16.47232891	-16.51089454	1.062709516	2.796766008	2
9	180	24	0.116207922	0.427142242	0.121882827	22.07505519	-15.89699409	-15.90283906	1.048834062	3.372100835	2
10	180	24	0.099134887	0.526277129	0.106089048	22.07505519	-15.65609817	-15.6137868	1.070148473	3.612996749	2
11	180	4	0.023388679	0.549665808	0.024422784	22.07505519	-15.09560606	-15.06394648	1.044213904	4.173488864	2
12	180	4	0.023419318	0.573085126	0.02442956	22.07505519	-15.01141735	-14.97720365	1.043137129	4.257677578	2
13	180	4	0.023762842	0.596847968	0.025226557	22.07505519	-14.91277991	-14.85665153	1.0615968	4.356315016	2
14	180	4	0.023016136	0.619864104	0.024516319	22.07505519	-14.8604409	-14.79561181	1.065179631	4.408654022	2
15	180	4	0.02220875	0.642072854	0.023511445	22.07505519	-14.81336372	-14.74946262	1.058656827	4.455731204	2
16	180	4	0.020938948	0.663011802	0.022888171	22.07505519	-14.79162552	-14.68936092	1.09309077	4.477469404	2
17	180	4	0.019697407	0.682709209	0.020950238	22.07505519	-14.77493358	-14.6934189	1.06360384	4.49416134	2
18	180	4	0.020219006	0.702928215	0.0206063	22.07505519	-14.700512	-14.62728691	1.019154912	4.599043722	2
19	180	4	0.017783626	0.720711841	0.01759434	22.07505519	-14.7209877	-14.70662627	0.989356131	4.54810722	2
20	180	4	0.017566846	0.738278687	0.017806181	22.07505519	-14.65845268	-14.61871987	1.013624225	4.610642246	2
21	180	4	0.016544829	0.754823516	0.016886224	22.07505519	-14.64325091	-14.59411126	1.020634529	4.625844013	2
22	180	4	0.015444469	0.770267985	0.015909553	22.07505519	-14.63840557	-14.57667867	1.030113267	4.63068935	2
23	180	4	0.014630849	0.784898834	0.014807425	22.07505519	-14.61986225	-14.57251677	1.012068746	4.649232671	2
24	180	4	0.013800565	0.7986994	0.013827568	22.07505519	-14.60598508	-14.56615145	1.001956595	4.663109843	2
25	180	4	0.012911094	0.811610494	0.012947612	22.07505519	-14.60086563	-14.55770416	1.00282839	4.668229289	3
26	180	4	0.011863437	0.823473931	0.012134715	22.07505519	-14.61501232	-14.5485684	1.022866696	4.654082606	3
27	180	4	0.010971262	0.834445193	0.011208712	22.07505519	-14.62420524	-14.55442614	1.021642916	4.644889679	3
28	180	4	0.010054459	0.844499652	0.010372327	22.07505519	-14.64387804	-14.55914511	1.031614642	4.625216883	3
29	180	4	0.009385336	0.853884988	0.00948522	22.07505519	-14.64609606	-14.57655207	1.01064262	4.622998861	3
30	180	4	0.008892297	0.862777285	0.008871069	22.07505519	-14.6330433	-14.57174751	0.997612753	4.636051627	3
31	180	4	0.008205565	0.870982851	0.008325157	22.07505519	-14.64618721	-14.56255894	1.014574475	4.622907713	3
32	180	8	0.014579846	0.885562696	0.014466667	22.07505519	-14.66526393	-14.59506554	0.992237284	4.603830997	3
33	180	4	0.006656017	0.892218713	0.006482704	22.07505519	-14.65483571	-14.63043817	0.973961575	4.614259211	3
34	180	4	0.005951676	0.898170389	0.006100566	22.07505519	-14.69923249	-14.62822324	1.025016453	4.569862428	3
35	180	4	0.005493855	0.903664244	0.005561478	22.07505519	-14.75633129	-14.65863364	1.012308848	4.512763628	3
36	180	4	0.005078731	0.908742975	0.005150844	22.07505519	-14.78008366	-14.67466488	1.014199129	4.489011259	3
37	180	8	0.009100581	0.917843556	0.009210647	22.07505519	-14.81068441	-14.69816408	1.012094346	4.458410514	3
38	180	8	0.007785143	0.925628699	0.007726135	22.07505519	-14.86445374	-14.75979602	0.992420432	4.404641185	3
39	180	8	0.006603191	0.93223189	0.006605535	22.07505519	-14.93279834	-14.80853991	1.000354909	4.33629658	3
40	180	8	0.005828417	0.938060307	0.005609245	22.07505519	-14.96612831	-14.86982741	0.962396072	4.302966608	3
41	180	8	0.004912774	0.942973081	0.004708491	22.07505519	-15.05069832	-14.94959009	0.958417876	4.218396599	3
42	180	8	0.003961915	0.946934996	0.004333176	22.07505519	-15.18841942	-14.94083047	1.093707588	4.080675501	3
43	180	8	0.003380834	0.95031583	0.003391478	22.07505519	-15.27807047	-15.10033325	1.003148384	3.991024448	3
44	200	1	0.002024979	0.952340808	0.001815157	21.14164905	-13.65736268	-13.58410643	0.896383419	4.006273682	3
45	200	1	0.001729156	0.954069964	0.001624088	21.14164905	-13.77598981	-13.65201775	0.939237637	3.887646553	3
46	200	1	0.001612939	0.955682903	0.001473962	21.14164905	-13.80920861	-13.70831338	0.913836069	3.854427758	3
47	200	1	0.001422768	0.957105671	0.001385252	21.14164905	-13.9004642	-13.73128809	0.973631677	3.763172163	3
48	200	1	0.001278378	0.958384049	0.001160063	21.14164905	-13.97602653	-13.87258067	0.907449193	3.687609838	3
49	200	1	0.001125184	0.959509232	0.001091824	21.14164905	-14.07483243	-13.90010468	0.970351636	3.588803938	3

50	200	1	0.001045945	0.960555178	0.000934874	21.14164905	-14.12106442	-14.02455504	0.8938078	3.542571944	3
51	200	1	0.001003685	0.961558863	0.001255597	21.14164905	-14.13633361	-13.69518788	1.250987544	3.527302755	3
52	200	1	0.00084873	0.962407593	0.000736981	21.14164905	-14.27996859	-14.19577333	0.868333858	3.38366777	3
53	200	1	0.00078534	0.963192933	0.000709686	21.14164905	-14.33587241	-14.20939	0.903667157	3.32776395	3
54	200	1	0.000681449	0.963874382	0.000627799	21.14164905	-14.45786274	-14.30916681	0.921269896	3.205773627	3
55	200	1	0.000660319	0.964534701	0.000893931	21.14164905	-14.47079346	-13.92908342	1.353786085	3.192842906	3
			0.035465299	1	0.027745975				0.78234149		

CAP-L4L	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
1	180	1	0.016496019	0.016496019	0.000583516	22.07505519	-18.83675054	-25.09022794	0.035373152	0.432344382	1
2	180	2	0.003622261	0.02011828	0.000594393	22.07505519	-20.24859869	-23.85114897	0.164094378	-0.979503768	1
3	180	4	0.00418912	0.0243074	0.001757515	22.07505519	-20.60297479	-22.44843418	0.419542701	-1.333879868	2
4	180	8	0.007962573	0.032269973	0.005274823	22.07505519	-20.41206893	-20.96056903	0.662452013	-1.142974005	2
5	180	12	0.015621658	0.047891631	0.013187615	22.07505519	-19.79519248	-19.25603746	0.844187943	-0.526097555	2 X
6	180	24	0.047657857	0.095549488	0.0463292	22.07505519	-18.73032959	-18.126679	0.972120921	0.538765329	2
7	180	24	0.060604086	0.156153574	0.061869521	22.07505519	-17.88061573	-17.37161012	1.020880362	1.388479194	2
8	180	24	0.069904013	0.226057587	0.073473643	22.07505519	-17.25955177	-16.79686712	1.051064746	2.009543153	2
9	180	24	0.077747938	0.303805525	0.082349274	22.07505519	-16.7518904	-16.32892397	1.059182736	2.517204526	2
10	180	24	0.08217634	0.385981865	0.088692226	22.07505519	-16.34313756	-15.84452342	1.079291507	2.92595736	2
11	180	4	0.018553724	0.404535589	0.019376303	22.07505519	-15.8439562	-15.70715022	1.04433498	3.42513872	2
12	180	4	0.019916182	0.424451771	0.020596033	22.07505519	-15.70052097	-15.59165304	1.034135611	3.568573949	2
13	180	4	0.020710502	0.445162273	0.021373888	22.07505519	-15.58621547	-15.52857172	1.032031397	3.682879453	2
14	180	4	0.020011467	0.465173739	0.021060921	22.07505519	-15.5463981	-15.45805278	1.052442628	3.722696825	2
15	180	4	0.019562032	0.484735771	0.020947161	22.07505519	-15.49793508	-15.44882329	1.070807003	3.771159839	2
16	180	4	0.018800747	0.503536518	0.019660977	22.07505519	-15.46924446	-15.41754025	1.045755099	3.799850465	2
17	180	4	0.017835712	0.521372231	0.018942013	22.07505519	-15.45700195	-15.34046753	1.062027256	3.812092971	2
18	180	4	0.018603059	0.539975289	0.019127062	22.07505519	-15.35043614	-15.29817134	1.028167617	3.918658784	2
19	180	4	0.018220598	0.558195887	0.018664145	22.07505519	-15.3061043	-15.27324827	1.024343189	3.962990623	2 or 3
20	180	4	0.017644461	0.575840348	0.017934112	22.07505519	-15.27464856	-15.26485729	1.016415985	3.994446367	2 or 3
21	180	4	0.01664851	0.592488858	0.01699518	22.07505519	-15.2716266	-15.26896922	1.020822877	3.997468321	2 or 3
22	180	4	0.015603281	0.608092139	0.015954625	22.07505519	-15.27853649	-15.25023205	1.02251732	3.990558434	2 or 3
23	180	4	0.014920324	0.623012462	0.015360653	22.07505519	-15.26792707	-15.25531228	1.029512053	4.00116785	2 or 3
24	180	4	0.014070887	0.63708335	0.01447078	22.07505519	-15.2733546	-15.2510989	1.028419873	3.995740321	2 or 3
25	180	4	0.013505153	0.650588502	0.013789994	22.07505519	-15.26312952	-15.22041202	1.021091292	4.005965399	2 or 3
26	180	4	0.012739593	0.663328095	0.013507741	22.07505519	-15.27199243	-15.25858455	1.060296133	3.997102489	2 or 3
27	180	4	0.012159855	0.67548795	0.012374238	22.07505519	-15.27086263	-15.2553938	1.017630454	3.998232295	2 or 3
28	180	4	0.011508242	0.686996191	0.011842616	22.07505519	-15.27982508	-15.27652105	1.029055243	3.989269844	2 or 3
29	180	4	0.011020604	0.698016795	0.011080468	22.07505519	-15.2784332	-15.2873424	1.005431965	3.990661722	2 or 3
30	180	4	0.010268249	0.708285045	0.0104942	22.07505519	-15.30612216	-15.27895844	1.022004742	3.962972765	2 or 3
31	180	4	0.009571625	0.717856669	0.010142439	22.07505519	-15.33550293	-15.32246711	1.059636071	3.933591997	2 or 3
32	180	4	0.00932084	0.727177509	0.009321663	22.07505519	-15.32234748	-15.30845628	1.000088364	3.946747445	2 or 3
33	180	4	0.008498822	0.735676332	0.009087156	22.07505519	-15.37646801	-15.36510777	1.069225311	3.89262691	2 or 3
34	180	4	0.007969388	0.743645719	0.008266381	22.07505519	-15.40474995	-15.3952451	1.037266738	3.86434497	2 or 3
35	180	4	0.00770467	0.751350389	0.007738739	22.07505519	-15.40351742	-15.43685305	1.004421887	3.865577507	2 or 3
36	180	8	0.013514391	0.764864781	0.014116504	22.07505519	-15.4859318	-15.5147111	1.044553452	3.783163127	3
37	180	8	0.01203695	0.776901731	0.012263985	22.07505519	-15.54111249	-15.59139368	1.018861446	3.727982438	3
38	180	8	0.010546899	0.787448631	0.010728707	22.07505519	-15.61754476	-15.6802016	1.017238006	3.651550159	3
39	180	8	0.009446232	0.796894863	0.009321663	22.07505519	-15.67647981	-15.76777445	0.986812855	3.592615117	3
40	180	8	0.008066915	0.804961778	0.008149127	22.07505519	-15.78771493	-15.87255334	1.010191254	3.481379988	3
41	180	8	0.00692445	0.811886228	0.007035218	22.07505519	-15.89910715	-15.9877523	1.015996531	3.369987775	3
42	180	8	0.005963108	0.817849336	0.006038562	22.07505519	-16.01188912	-14.43405951	1.012653396	3.257205808	3
43	200	1	0.003413461	0.821262798	0.003470707	21.14164905	-14.46292745	-14.52482809	1.016770623	3.200708918	3
44	200	1	0.003093014	0.824355812	0.003107221	21.14164905	-14.5420766	-14.53667503	1.004593266	3.121559766	3
45	200	1	0.002702904	0.827058716	0.003013418	21.14164905	-14.6593021	-14.73848738	1.114881623	3.004334266	3
46	200	1	0.002452119	0.829510835	0.002421287	21.14164905	-14.74078953	-14.80174736	0.987426439	2.922846831	3
47	200	1	0.002312794	0.83182363	0.002239544	21.14164905	-14.78439323	-14.94079496	0.96832834	2.879243134	3
48	200	1	0.002006279	0.833829909	0.001922959	21.14164905	-14.91289297	-15.1814503	0.958470431	2.750743398	3
49	200	1	0.001630102	0.835460011	0.001494984	21.14164905	-15.10888411	-15.01836107	0.917110544	2.554752255	3
50	200	1	0.001880887	0.837340898	0.001741216	21.14164905	-14.95440758	-15.04829245	0.925742172	2.709228787	3
51	200	1	0.001644035	0.838984933	0.001670864	21.14164905	-15.07745876	-15.14891311	1.016319411	2.586177607	3
52	200	1	0.001630102	0.840615035	0.001494984	21.14164905	-15.07513426	-15.2735261	0.917110544	2.588502102	3
53	200	1	0.001375137	0.841990172	0.001307378	21.14164905	-15.23518062	-15.42014357	0.950725359	2.428455745	3
54	200	1	0.00122606	0.843216232	0.001119772	21.14164905	-15.34115607	-15.47757221	0.913309684	2.322480297	3

55	200	1	0.001074195	0.844290427	0.00104942	21.14164905	-15.46556917	0.976935791	2.198067197	3
			0.155709573	1	0.154071265			0.98947844		

CAP-L5	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
1	79.48	1	0.000247603	0.000247603	-8.33562E-06	28.35833593	-27.23484823		-0.033665293	2.84148957	1
2	99.26	1	0.001133876	0.001381479	-2.58106E-05	26.85212535	-23.82933084		-0.022763147	3.656324756	1
3	119.03	1	0.002642669	0.004024147	3.46298E-05	25.49849559	-21.78375911		0.013104093	3.373653305	1
4	139.05	1	0.004074703	0.00809885	9.59399E-05	24.26006793	-20.54308669	-29.12102465	0.023545256	2.484230143	1
5	159.18	1	0.005056385	0.013155235	0.000242455	23.13047903	-19.76578785	-26.81238735	0.044350781	1.318636085	1
6	179.17	1	0.006667506	0.019822741	0.000509198	22.10824195	-19.04990299	-24.97766434	0.076370036	0.276273167	1
7	199.24	1	0.010029269	0.02985201	0.001865172	21.16894939	-18.2319842	-22.55977702	0.185972832	-0.521391261	2
8	219.2	1	0.031597467	0.061449477	0.01980988	20.31075454	-16.47574471	-18.2299649	0.62694521	-0.241246894	2
9	209.17	1	0.018881139	0.080330616	0.015044164	20.73312324	-16.55054801	-17.63675411	0.796782634	0.410423958	2
10	199.2	1	0.009376848	0.089707465	0.007478654	21.17074203	-17.0687226	-18.01720664	0.797565869	0.644953704	2
11	189.19	1	0.004242947	0.093950412	0.003391177	21.62910412	-17.78465602	-18.68442069	0.79925047	0.717403072	2
12	179.16	1	0.001870935	0.095821346	0.001351768	22.10873074	-18.57072856	-19.55467511	0.722509343	0.756288311	2
13	169.59	2	0.001585305	0.097406651	0.00115811	22.58661969	-19.41148822	-20.37720541	0.730528431	0.737497644	2
14	159.59	2	0.000632047	0.098038699	0.000351437	23.10856403	-20.31964587	-21.55484126	0.556029064	0.727084268	2
15	169.59	2	0.001510459	0.099549158	0.001105941	22.58661969	-19.43753914	-20.39426122	0.732188725	0.71144672	2
16	179.66	2	0.003749467	0.103298625	0.003023454	22.08431793	-18.41823524	-19.34949706	0.806369141	0.866791592	2
17	189.59	2	0.009001837	0.112300461	0.007672728	21.61040757	-17.47583678	-18.32361831	0.852351384	0.994064243	2
18	199.2	1	0.009962815	0.122263276	0.008657391	21.17074203	-16.58858858	-17.38061912	0.868970368	1.125087717	2
19	209.2	1	0.021652448	0.143915724	0.019874606	20.73183373	-15.67153619	-16.35762558	0.917891879	1.287217824	2
20	219.18	1	0.04773731	0.191653034	0.045241489	20.31157963	-14.61644847	-15.10305287	0.947717604	1.619468497	2
21	238.61	0.5	0.08650361	0.278156644	0.085976081	19.54040957	-12.92462768	-13.25151938	0.993901642	1.984876773	2
22	257.63	0.5	0.228257581	0.506414225	0.240480756	18.84019745	-11.2439184	-11.38412583	1.05354992	2.461221202	2
23	276.94	0.5	0.255239031	0.761653256	0.2897974	18.17884346	-10.2318206	-10.19097511	1.135396095	2.335790154	2
24	297.19	0.5	0.111389995	0.873043251	0.128581915	17.53340113	-10.2624861	-10.10595563	1.154339898	1.194963838	3
25	317.87	0.5	0.053169987	0.926213238	0.065999718	16.91990119	-10.39608071	-9.987994986	1.241296497	0.006149334	3
26	318.6	0.5	0.001955523	0.92816876	0.002009203	16.89902831	-13.40194354	-13.02471819	1.027450568	-3.035614851	3
27	318.64	0.5	0.001247152	0.929415913	0.001111529	16.89788607	-13.8295335	-13.5859194	0.891253573	-3.465169451	3
28	338.56	0.5	0.00289252	0.932308433	0.002171679	16.3476157	-12.95864948	-12.88246882	0.750791271	-3.540750472	3
29	358.57	0.5	0.004520879	0.936829312	0.003335604	15.82979801	-12.45671514	-12.39408435	0.737821919	-3.929462559	3
30	358.38	0.5	0.002166975	0.938996287	0.001599963	15.83456051	-13.13992763	-13.07313714	0.738339405	-4.604483551	3
31	378.57	0.5	0.00432554	0.943321828	0.002961576	15.34401277	-12.39467177	-12.40241247	0.684671912	-4.702969811	3
32	397.93	0.5	0.005709218	0.949031045	0.004186953	14.90135304	-12.02751212	-11.96338133	0.733367195	-5.097184883	3
33	418.02	0.5	0.00644289	0.955473936	0.004670649	14.46822055	-11.78625087	-11.72601209	0.72493077	-5.600911518	3
34	419.53	2	0.007820873	0.963294809	0.005853613	14.43668072	-12.81537024	-12.7083592	0.748460248	-6.684279408	3
35	437.68	0.5	0.002657066	0.965951874	0.001868492	14.06806128	-12.37318104	-12.31502379	0.703216314	-6.876115637	3
36	458.5	0.5	0.004018425	0.969970299	0.00278721	13.66773731	-11.85956963	-11.80975309	0.693607605	-7.051061465	3
37	458.31	0.5	0.002000903	0.971971202	0.00130356	13.67128756	-12.45913076	-12.46902421	0.651485863	-7.644516157	3
38	477.67	0.5	0.003110725	0.975081927	0.002182358	13.31877148	-11.92495514	-11.85709623	0.70155912	-7.716668197	3
39	497.83	0.5	0.003829441	0.978911369	0.002708164	12.97050507	-11.5754261	-11.48794578	0.707195619	-7.966157382	3
40	497.87	0.5	0.001772983	0.980684352	0.001180108	12.96983217	-12.21730427	-12.18098464	0.665605963	-8.609192935	3
41	850	2	0.019315648	1	0.012377622	8.90353025			0.64080803		

YAN-0201AC	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
1	28.54	0.3	4.41712E-06	4.41712E-06	1.27978E-05	33.14660744	-34.08355101	-31.95597818	2.897320713	4.228613791	1
2	29.27	1	8.28156E-06	1.26987E-05	<i>4.6856E-06</i>	33.06659612	-33.3044655	-33.30347822	0.565786588	4.870079834	1
3	34.35	1	1.37832E-05	2.64819E-05	<i>5.03305E-06</i>	32.5203252	-31.96686843	-32.95359776	0.365158175	5.268090924	1
4	39.37	1	2.59942E-05	5.24761E-05	<i>6.17794E-06</i>	31.99795213	-30.63170954	-32.50156263	0.237666025	5.70476813	1
5	44.42	1	4.64089E-05	9.8885E-05	<i>1.08123E-05</i>	31.48912051	-29.40134071	-31.65535471	0.232979111	6.059946561	1
6	49.38	1	7.73313E-05	0.000176216	<i>1.66173E-05</i>	31.00486776	-28.29326107	-30.88755885	0.214884906	6.335111487	1
7	44.34	1	3.82168E-05	0.000214433	<i>1.15642E-05</i>	31.49705503	-28.6474124	-30.99182054	0.30259384	6.827522248	1
8	40	5	3.63797E-05	0.000250813	<i>-5.03468E-05</i>	31.93357816	-30.13136087		-1.383926285	6.09439356	1
9	34.32	1	1.09876E-05	0.0002618	<i>4.31915E-06</i>	32.52349823	-29.62220962	-33.13182898	0.393092445	7.61820733	1
10	29.35	1	6.3608E-06	0.000268161	<i>4.09008E-06</i>	33.05785124	-30.13554027	-32.99107639	0.643013004	8.023963859	1
11	29.31	1	5.80414E-06	0.000273965	<i>2.43262E-06</i>	33.0622231	-30.20442886	-33.38176974	0.419118778	7.962594877	1
12	29.36	1	5.86736E-06	0.000279833	<i>2.67794E-06</i>	33.05675845	-30.1722936	-33.19515939	0.456413189	7.98533094	1
13	34.33	1	1.06571E-05	0.00029049	<i>3.71413E-06</i>	32.52244048	-29.54607453	-32.76527409	0.348513397	7.692523103	1
14	39.36	1	1.78942E-05	0.000308384	<i>5.77592E-06</i>	31.99897603	-28.97897304	-32.18829219	0.322782225	7.359265734	1

15	44.43	1	3.46496E-05	0.000343034	8.82114E-06	31.48812898	-28.23406212	-31.58684541	0.254581177	7.225519714	1
16	49.37	1	6.39551E-05	0.000406989	1.26223E-05	31.0058291	-27.48021595	-31.01380316	0.197361551	7.149810099	1
17	44.35	1	3.1688E-05	0.000438677	7.43391E-06	31.49606299	-28.06243855	-31.3770727	0.234597174	7.410789791	1
18	39.35	1	1.71662E-05	0.000455843	5.82396E-06	32	-28.61927223	-31.52475528	0.339269626	7.720727771	1
19	34.32	1	9.4246E-06	0.000465267	4.80264E-06	32.52349823	-29.18959633	-31.64650336	0.5095858	8.050820624	1
20	29.35	1	5.18115E-06	0.000470449	3.27504E-06	33.05785124	-29.77216058	-31.97850971	0.63210618	8.387343549	1
21	29.35	1	5.07494E-06	0.000475523	2.65925E-06	33.05785124	-29.78197243	-32.15103349	0.52399586	8.377531705	1
22	29.35	1	4.28066E-06	0.000479804	2.52003E-06	33.05785124	-29.94233736	-32.17460527	0.588700624	8.217166777	1
23	34.36	1	8.99743E-06	0.000488802	3.4443E-06	32.51926767	-29.18570302	-31.82847113	0.382809075	8.047437361	1
24	39.35	1	1.64243E-05	0.000505226	6.09817E-06	32	-28.55797342	-31.20556411	0.371289626	7.78202658	1
25	44.4	1	2.92036E-05	0.000534429	8.1079E-06	31.49110376	-27.93756353	-30.84846301	0.277763384	7.527134944	1
26	49.39	1	5.48608E-05	0.00058929	1.2733E-05	31.00390649	-27.22930028	-30.29974728	0.232096247	7.397418887	1
27	54.41	1	9.57224E-05	0.000685013	1.94573E-05	30.52875809	-26.54689255	-29.74181231	0.203267949	7.262571363	1
28	59.4	1	0.000161067	0.000846079	2.98569E-05	30.07066607	-25.8429433	-29.13798503	0.185369561	7.178602331	1
29	59.4	1	0.000161067	0.001007146	2.98569E-05	30.07066607	-25.65199678	-28.95980295	0.185369561	7.369548853	1
30	64.41	1	0.000254644	0.001261791	4.75146E-05	29.62436308	-24.99156487	-28.30334645	0.186591843	7.262339626	1
31	59.42	1	0.000117881	0.001379672	2.35779E-05	30.06885768	-25.60973276	-28.85531634	0.200013585	7.408702455	1
32	54.37	1	6.13731E-05	0.001441045	1.27239E-05	30.53248657	-26.19678055	-29.40394007	0.207320743	7.619096339	1
33	49.41	1	3.34525E-05	0.001474498	7.79412E-06	31.00198413	-26.770563	-29.85746969	0.232990992	7.852849697	1
34	44.35	1	1.78237E-05	0.001492321	4.94535E-06	31.49606299	-27.38272537	-30.29033189	0.277459401	8.090502973	1
35	39.35	1	9.70692E-06	0.001502028	4.66379E-06	32	-27.98117779	-30.33262877	0.48045993	8.35882221	1
36	39.38	1	9.66227E-06	0.00151169	3.49754E-06	31.99692829	-27.97934069	-30.60673903	0.36197922	8.355375973	1
37	39.35	1	9.88976E-06	0.00152158	3.55692E-06	32	-27.94960288	-30.57824655	0.359657245	8.390397124	1
38	44.42	1	1.75958E-05	0.001539176	5.10781E-06	31.48912051	-27.36442273	-30.20223834	0.290285839	8.096864544	1
39	49.4	1	3.31047E-05	0.001572281	8.44154E-06	31.00294528	-26.71597778	-29.67813457	0.254995237	7.909088098	1
40	54.35	1	5.84966E-05	0.001630777	1.27808E-05	30.53435115	-26.11766966	-29.23026983	0.218488483	7.701414305	1
41	59.4	1	0.000108087	0.001738864	2.22359E-05	30.07066607	-25.45300106	-28.62420444	0.205722572	7.568544569	1
42	64.4	1	0.000186953	0.001925818	3.5559E-05	29.62524071	-24.82114264	-28.07396434	0.190202662	7.434271374	1
43	69.4	1	0.000294288	0.002220106	5.59975E-05	29.19281857	-24.24405975	-27.50393761	0.190281257	7.267588189	1
44	64.38	1	0.000146434	0.00236654	2.99337E-05	29.62699612	-24.84101983	-28.03247605	0.204417548	7.417413492	1
45	59.4	1	8.14561E-05	0.002447996	1.78466E-05	30.07066607	-25.37903999	-28.49914823	0.219094545	7.642505644	1
46	54.37	1	4.38863E-05	0.002491882	1.1396E-05	30.53248657	-25.97180227	-28.91800061	0.25967214	7.84407462	1
47	49.32	1	2.44801E-05	0.002516362	7.53997E-06	31.01063665	-26.54179854	-29.31227911	0.308004293	8.096496499	1
48	49.39	1	2.66244E-05	0.002542987	6.20357E-06	31.00390649	-26.44767784	-29.49396776	0.233003142	8.179041329	1
49	49.37	1	2.36174E-05	0.002566604	7.35026E-06	31.0058291	-26.55764071	-29.31131081	0.311222219	8.072385336	1
50	54.42	1	4.07153E-05	0.002607319	9.65099E-06	30.52782611	-26.00050911	-29.02285844	0.237036133	7.80735181	1
51	59.4	1	7.83762E-05	0.002685696	1.70242E-05	30.07066607	-25.32283593	-28.43049371	0.217211103	7.698709704	1
52	64.38	1	0.00013695	0.002822646	2.82679E-05	29.62699612	-24.72486338	-27.88266628	0.206410195	7.533569941	1
53	69.39	1	0.000233977	0.003056623	4.56979E-05	29.19367081	-24.12408783	-27.33919226	0.195308987	7.389025971	1
54	74.4	1	0.000402376	0.003458999	8.00601E-05	28.77283844	-23.47915366	-26.67948243	0.198968168	7.310128457	1
55	79.43	1	0.000582048	0.004041048	0.000113101	28.36235748	-22.96928126	-26.19879016	0.194315106	7.113973605	1
56	74.41	1	0.000326611	0.004367659	6.11923E-05	28.77201059	-23.43270523	-26.70500204	0.187355121	7.355152985	1
57	69.38	1	0.000165457	0.004533116	3.43991E-05	29.19452311	-24.0558962	-27.22634522	0.207903953	7.45868354	1
58	64.4	1	8.69853E-05	0.004620101	1.9467E-05	29.62524071	-24.67090004	-27.76612812	0.223796327	7.584513972	1
59	59.32	1	4.71492E-05	0.00466725	1.15898E-05	30.07790177	-25.26877361	-28.26808886	0.245810489	7.765217429	1
60	59.32	1	4.80622E-05	0.004715312	1.14452E-05	30.07790177	-25.23939533	-28.26847378	0.238134168	7.794595711	1
61	64.36	1	8.57338E-05	0.004801046	1.92674E-05	29.62875174	-24.6464846	-27.73164618	0.224734641	7.614968395	1
62	69.34	1	0.000169531	0.004970577	3.40268E-05	29.19793279	-23.93822702	-27.13575487	0.200711816	7.582217371	1
63	74.41	1	0.000274339	0.005244916	5.82338E-05	28.77201059	-23.41247422	-26.55310544	0.212269581	7.375383988	1
64	79.41	1	0.000462493	0.005707408	9.7226E-05	28.36396642	-22.82056189	-25.96851067	0.21022169	7.26546035	1
65	84.35	1	0.000723193	0.006430602	0.000147843	27.97202797	-22.27072568	-25.44544673	0.204430826	7.141162432	1
66	89.3	1	0.001047632	0.007478233	0.000215224	27.59001242	-21.76393232	-24.93340858	0.205438244	6.990889034	1
67	94.46	1	0.00148965	0.008967883	0.000302766	27.20274204	-21.24435845	-24.42487255	0.203246593	6.844357856	1
68	99.36	1	0.002054646	0.011022529	0.000429511	26.84491691	-20.72763227	-23.87819907	0.209043742	6.745624828	1
69	94.4	1	0.000962022	0.011984551	0.00020787	27.2071827	-21.34590508	-24.45928829	0.216076436	6.750449162	1
70	89.32	1	0.000532039	0.01251659	0.000115606	27.58849008	-21.87530762	-24.97990067	0.21728901	6.876895318	1
71	84.39	1	0.000288556	0.012805146	6.53162E-05	27.96889858	-22.45419095	-25.5156953	0.226355063	6.952314612	1
72	79.39	1	0.000164166	0.012969312	3.85277E-05	28.36557554	-23.00048258	-26.02392399	0.234687526	7.088307346	1
73	74.37	1	9.05379E-05	0.01305985	2.12895E-05	28.77532228	-23.58575787	-26.60594826	0.235145026	7.207796453	1
74	69.39	1	5.21151E-05	0.013111965	1.36384E-05	29.19367081	-24.13260574	-27.04482516	0.261698427	7.38050806	1
75	64.36	1	2.91098E-05	0.013141075	9.49676E-06	29.62875174	-24.71188695	-27.40252044	0.326239082	7.549566045	1
76	59.38	1	1.53733E-05	0.013156448	6.05531E-06	30.07247466	-25.34863754	-27.84969033	0.393885138	7.676018881	1
77	59.38	1	1.62403E-05	0.013172688	6.50601E-06	30.07247466	-25.29257082	-27.77560796	0.400608474	7.732085603	1
78	64.39	1	3.06518E-05	0.01320334	9.23336E-06	29.62611839	-24.65559696	-27.42264664	0.301233933	7.601326667	1
79	69.4	1	4.89389E-05	0.013252279	1.35007E-05	29.19281857	-24.18470363	-27.03860228	0.275869624	7.326944309	1

80	74.41	1	8.63836E-05	0.013338663	2.19349E-05	28.77201059	-23.61137577	-26.54687782	0.253923882	7.176482439	1
81	79.38	1	0.00016358	0.013502243	3.8514E-05	28.36638017	-22.96351449	-25.97312169	0.235444319	7.126659395	1
82	84.4	1	0.000285481	0.013787723	6.92027E-05	27.96811635	-22.39005076	-25.36812288	0.242407776	7.015109354	1
83	89.44	1	0.000492468	0.014280191	0.000115401	27.57935961	-21.81668752	-24.82503584	0.234332241	6.919811003	1
84	94.39	1	0.000802889	0.015083081	0.000185312	27.20792295	-21.28278253	-24.30181252	0.23080596	6.814844942	1
85	99.44	1	0.001200052	0.016283132	0.00027834	26.83915296	-20.81489287	-23.82305444	0.231939608	6.648450214	1
86	89.39	1	0.000373547	0.016656679	9.02653E-05	27.58316324	-21.93301867	-24.89541739	0.241643804	6.810022102	1
87	79.4	1	0.000123305	0.016779984	3.02045E-05	28.36477095	-23.02642977	-25.9732285	0.244957463	7.060976267	1
88	69.4	1	3.8154E-05	0.016818138	1.14103E-05	29.19281857	-24.19464389	-26.9409109	0.299059944	7.317004047	1
89	59.34	1	1.25685E-05	0.016830707	5.27422E-06	30.07609251	-25.30357351	-27.71028703	0.419638783	7.727305615	1
90	49.35	1	4.79779E-06	0.016835504	2.34464E-06	31.00775194	-26.26609298	-28.51993077	0.48869185	8.367240354	1
91	99.88	5	0.004504381	0.021339885	0.001022108	26.80749538	-20.90518508	-23.91941992	0.226914292	6.50370697	1
92	99.86	5	0.003118456	0.024458342	0.000732409	26.80893274	-21.09084313	-24.06004228	0.234862719	6.320521175	1
93	99.87	5	0.002425764	0.026884106	0.000585463	26.80821404	-21.22776227	-24.160322	0.241352009	6.182365874	1
94	99.87	5	0.002130315	0.029014421	0.000537234	26.80821404	-21.27261875	-24.15180819	0.252185278	6.137509392	1
95	99.89	5	0.001905209	0.03091963	0.000493823	26.80677675	-21.31459006	-24.15651613	0.259196392	6.093065955	1
96	99.88	5	0.001626844	0.032546474	0.000434705	26.80749538	-21.4152786	-24.21743241	0.267207209	5.993613451	1
97	99.9	5	0.001491674	0.034038148	0.000403418	26.8065817	-21.45405384	-24.23560032	0.270446499	5.952366215	1
98	99.86	5	0.001403061	0.03544121	0.000391919	26.80893274	-21.47274064	-24.2136823	0.279331103	5.938623667	1
99	99.91	8	0.001963841	0.037405051	0.000557224	26.80533962	-21.55917675	-24.27430448	0.283741752	5.846007402	1
100	99.93	8	0.001785361	0.039190412	0.000525997	26.80390265	-21.6042718	-24.27018671	0.294616617	5.798440757	1
101	99.92	8	0.001570656	0.040761068	0.000496539	26.80462112	-21.6895169	-24.27280017	0.316134704	5.714431419	1
102	99.91	8	0.001440993	0.042202061	0.000476125	26.80533962	-21.73870146	-24.26511177	0.330414794	5.666482697	1
103	99.93	8	0.001302665	0.043504726	0.000417469	26.80390265	-21.80708587	-24.3530297	0.320472665	5.595626682	1
104	99.88	5	0.000599612	0.044104338	0.000168641	26.80749538	-22.09101432	-24.76189153	0.281250468	5.317877726	1
105	99.85	5	0.000617488	0.044721827	0.000178848	26.80965147	-22.04784026	-24.68713286	0.289638352	5.364760271	1
106	99.87	5	0.00059544	0.045317267	0.000178598	26.80821404	-22.070637	-24.67234349	0.299942948	5.339491144	1
107	99.87	5	0.000580183	0.04589745	0.00017837	26.80821404	-22.08362291	-24.65771029	0.307437916	5.326505235	1
108	49.87	5	7.17163E-06	0.045904621	-2.78498E-05	30.95783543	-26.47041452		-3.88332808	8.07706242	1
109	49.88	5	8.36908E-06	0.04591299	-2.85859E-05	30.95687707	-26.31583369		-3.415652405	8.22999487	1
110	59.82	5	1.22254E-05	0.045925216	-2.68561E-05	30.03273568	-25.9366355		-2.196744766	7.019669877	1
111	69.78	3	1.55181E-05	0.045940734	-1.11459E-05	29.16047007	-25.18701594		-0.718249482	6.268992579	1
112	79.8	3	3.97046E-05	0.045980439	-2.83966E-06	28.33262502	-24.24695789		-0.071519675	5.785157137	1
113	89.79	3	0.00011693	0.046097368	2.5976E-05	27.55276354	-23.16514889	-26.07313991	0.222150341	5.525604398	1
114	99.77	3	0.000365767	0.046463135	0.000120276	26.81540277	-22.01949718	-24.53407777	0.32883296	5.402995582	1
115	99.71	2	0.000234459	0.046697594	7.97861E-05	26.81971786	-22.05228392	-24.53030732	0.34029857	5.377630796	1
116	99.7	2	0.000239808	0.046937402	8.0913E-05	26.82043717	-22.02464969	-24.50930993	0.337408073	5.406502249	1
117	89.64	2	7.76096E-05	0.047015012	2.04781E-05	27.56415557	-23.14941174	-25.87895386	0.26386083	5.560935848	1
118	79.7	2	2.97999E-05	0.047044812	1.10639E-06	28.34065467	-24.10545526	-28.7962827	0.037127222	5.940470774	1
119	69.64	2	1.06004E-05	0.047055412	-5.37916E-06	29.17237959	-25.13863495		-0.507446325	6.337857944	1
120	59.69	3	7.64327E-06	0.047063055	-1.51404E-05	30.04446581	-25.870976		-1.980883248	7.105505194	1
121	49.72	3	5.68423E-06	0.047068739	-1.52954E-05	30.97221792	-26.16696459		-2.690855696	8.405250236	1
122	49.76	3	5.71215E-06	0.047074452	-1.5098E-05	30.96838128	-26.16194327		-2.643141483	8.403672535	1
123	49.76	3	4.99748E-06	0.047079449	-1.16417E-05	30.96838128	-26.29549195		-2.32951179	8.270123857	1
124	59.7	2	5.5083E-06	0.047084957	-5.40822E-06	30.04356317	-25.79259269		-0.981831514	7.18233596	1
125	69.71	2	1.09928E-05	0.04709595	-5.30777E-06	29.16642361	-25.10143432		-0.48284146	6.364814295	1
126	79.4	1	1.3287E-05	0.047109237	3.05191E-06	28.36477095	-24.21848114	-27.09460989	0.229691012	5.868924903	1
127	89.4	1	3.36578E-05	0.047142895	1.08702E-05	27.58240243	-23.28852599	-25.82374955	0.322962491	5.453206189	1
128	99.4	1	0.000105043	0.047247938	3.71042E-05	26.84203463	-22.14893158	-24.59397367	0.35322875	5.319367975	1
129	99.4	1	0.000105757	0.047353695	3.85592E-05	26.84203463	-22.13992302	-24.55224843	0.36460102	5.328376541	1
130	99.4	1	9.97494E-05	0.047453444	3.87073E-05	26.84203463	-22.19623858	-24.54509791	0.388045241	5.272060978	1
131	99.42	1	0.000105832	0.047559277	3.87607E-05	26.84059371	-22.13487958	-24.54040281	0.36624726	5.330941604	1
132	99.54	1	0.000123841	0.047683118	4.3212E-05	26.83195149	-21.97531764	-24.42819629	0.348929999	5.475638924	1
133	104.39	1	0.000210135	0.047893253	7.9234E-05	26.48725963	-21.44306812	-23.81670862	0.377062159	5.415018442	1
134	109.46	1	0.000374115	0.048267368	0.000144486	26.13627454	-20.86016059	-23.20649745	0.386208192	5.394231607	1
135	114.37	1	0.000627629	0.048894997	0.000238476	25.80511974	-20.33241134	-22.68947335	0.379963032	5.352394601	1
136	119.41	1	0.000938637	0.049833634	0.000360318	25.47381292	-19.91393981	-22.25232864	0.38387309	5.201018417	1
137	124.54	1	0.001547722	0.051381356	0.000580323	25.14521361	-19.38895781	-21.73852455	0.374952729	5.160809599	1
138	129.58	1	0.002127635	0.053508991	0.000800496	24.83053162	-19.03506226	-21.36465208	0.376237302	4.973452128	1
139	134.51	1	0.003011868	0.05652086	0.001139492	24.53024579	-18.63967641	-20.9424942	0.378333802	4.852346357	1
140	139.53	1	0.003934034	0.060454893	0.001506738	24.23185034	-18.3113568	-20.57602446	0.383000894	4.667425787	1
141	139.57	1	0.003132845	0.063587738	0.001202365	24.22950184	-18.48042201	-20.71973219	0.38379328	4.494321162	1
142	134.56	1	0.001836212	0.065423949	0.000736126	24.5272375	-18.97538124	-21.15560417	0.400893805	4.511467253	1
143	129.46	1	0.001021202	0.066445151	0.000429081	24.83793249	-19.54019878	-21.66382533	0.420172138	4.4810451	1
144	124.4	1	0.000569668	0.06701482	0.00023905	25.15406867	-20.11188785	-22.23115177	0.419630806	4.45311026	1

145	119.5	1	0.000327788	0.067342608	0.000139381	25.46797402	-20.65787306	-22.76075839	0.425216681	4.44704226	1
146	114.45	1	0.000191241	0.067533849	8.1441E-05	25.7997936	-21.19284983	-23.29238375	0.425854909	4.48279517	1
147	109.43	1	0.000114113	0.067647962	4.86837E-05	26.13832401	-21.7069307	-23.80357027	0.426625486	4.550986594	1
148	104.43	1	6.87418E-05	0.067716704	2.77819E-05	26.48445363	-22.21241367	-24.36256568	0.40414904	4.640846564	1
149	99.34	1	4.14239E-05	0.067758128	1.82971E-05	26.84635829	-22.71810039	-24.77902866	0.441704198	4.75763587	1
150	99.51	1	4.30708E-05	0.067801199	2.08925E-05	26.83411152	-22.67848976	-24.64538067	0.48507249	4.776182059	1
151	99.45	1	4.18099E-05	0.067843009	1.90537E-05	26.83843264	-22.70757641	-24.73648818	0.455721634	4.754527721	1
152	104.57	1	7.0251E-05	0.06791326	3.13374E-05	26.4746373	-22.18780887	-24.23764944	0.446077345	4.648567277	1
153	109.49	1	0.000117292	0.068030551	5.2537E-05	26.13422538	-21.67383747	-23.71880514	0.447916824	4.577030188	1
154	114.39	1	0.000197357	0.068227908	8.59418E-05	25.803788	-21.15117544	-23.22313189	0.435463244	4.531339912	1
155	119.51	1	0.00034229	0.068570199	0.000152068	25.46732542	-20.59657861	-22.64644947	0.444267563	4.507221111	1
156	124.5	1	0.000566424	0.069136623	0.000251714	25.14774299	-20.08627439	-22.13235157	0.444392415	4.46784355	1
157	129.51	1	0.00090727	0.070043893	0.000409493	24.83484826	-19.60453163	-21.62935226	0.451345944	4.411407374	1
158	134.5	1	0.001387687	0.07143158	0.000616033	24.53084754	-19.16322436	-21.19609173	0.443928258	4.329833413	1
159	139.46	1	0.002135343	0.073566923	0.000964324	24.23596132	-18.70763812	-20.71079838	0.451601609	4.278215351	1
160	139.33	1	0.001869083	0.075436006	0.00085106	24.24359969	-18.81357483	-20.79468713	0.455335693	4.185416635	1
161	139.41	1	0.001709959	0.077145965	0.000788058	24.23889858	-18.87881723	-20.83592286	0.460863835	4.112088339	1
162	99.75	2	6.73113E-05	0.077213276	2.61977E-05	26.81684098	-22.7952805	-24.91571204	0.389201621	4.629685981	1
163	129.65	1	0.000679744	0.07789302	0.000325094	24.82621648	-19.78491762	-21.69676513	0.478259865	4.216174738	1
164	139.51	1	0.001655288	0.079548307	0.000795533	24.23302477	-18.879961	-20.77875926	0.480600874	4.100841597	1
165	139.54	1	0.001574415	0.081122723	0.000763392	24.23126318	-18.90974572	-20.78871556	0.484873486	4.068026944	1
166	129.54	1	0.000546695	0.081669417	0.000267737	24.83299809	-19.95437962	-21.81631444	0.48973827	4.058377089	1
167	119.37	1	0.00019901	0.081868427	9.99153E-05	25.47640885	-20.9603466	-22.79490375	0.502062999	4.159076616	1
168	109.7	1.5	0.000101658	0.081970085	4.48139E-05	26.1198903	-22.03571555	-23.99939531	0.440830832	4.190495763	1
169	99.76	2	4.61749E-05	0.08201626	1.73061E-05	26.81612185	-23.11167194	-25.23734549	0.374794936	4.312057651	1
170	99.76	2	4.82324E-05	0.082064492	2.00342E-05	26.81612185	-23.06750142	-25.09024918	0.415368298	4.356228164	1
171	99.76	2	4.64755E-05	0.082110968	1.70798E-05	26.81612185	-23.10402917	-25.24908226	0.367501478	4.319700415	1
172	109.66	1.5	0.000101356	0.082212324	4.91291E-05	26.12261958	-22.0357353	-23.90358171	0.484718748	4.195170369	1
173	119.54	1	0.000182209	0.082394533	8.97262E-05	25.46537982	-21.04202987	-22.89315704	0.492435692	4.058423418	1
174	129.57	1	0.000520404	0.082914937	0.000265334	24.83114819	-19.98831916	-21.80219073	0.509861242	4.021255733	1
175	139.58	1	0.001429445	0.084344381	0.000733046	24.22891479	-18.96615742	-20.76725803	0.512819053	4.007576017	1
176	149.4	1	0.003266638	0.087611019	0.001660653	23.66583836	-18.1119923	-19.90601237	0.508367645	3.893249681	1
177	159.35	1	0.006753311	0.09436433	0.003472385	23.12138728	-17.3290846	-19.08105065	0.514175221	3.739701528	1
178	168.86	1	0.011130573	0.105494903	0.006071603	22.62392254	-16.65306098	-18.37774667	0.545488841	3.560085783	1
179	178.89	1	0.015495181	0.120990084	0.009423446	22.12193611	-16.18543374	-17.74057114	0.608153341	3.164296371	1
180	178.91	1	0.010068205	0.131058289	0.006708632	22.1209574	-16.49839498	-17.90922496	0.666318575	2.849651743	1
181	178.87	1	0.008656019	0.139714307	0.006557496	22.12291492	-16.56946968	-17.81035998	0.757564876	2.781943972	1
182	169.48	2	0.006571954	0.146286262	0.005194774	22.59223279	-17.47645852	-18.6398155	0.790445816	2.682181879	1
183	159.24	1	0.001500815	0.147787077	0.001254224	23.12726936	-18.22861716	-19.31848791	0.835695317	2.850286149	2
184	149.45	1	0.000612434	0.148399511	0.00052255	23.66303833	-19.11681292	-20.18086857	0.85323571	2.883613014	2
185	139.61	1	0.00024638	0.148645891	0.000211938	24.22715379	-20.02408855	-21.07790158	0.860207044	2.94661598	2
186	129.4	1	9.05312E-05	0.148736422	7.87119E-05	24.84163458	-21.02398191	-22.06627541	0.86944415	3.003629563	2
187	119.4	1	3.43752E-05	0.148770797	2.98822E-05	25.47446185	-21.99186417	-23.03401252	0.869295471	3.124210211	2
188	109.7	1.5	2.12207E-05	0.148792018	1.50412E-05	26.1198903	-22.87947474	-24.12561768	0.708799587	3.34673657	2
189	99.65	2	1.2388E-05	0.148804406	4.24491E-06	26.82403433	-23.70527615	-25.67823473	0.342662068	3.732062905	2
190	99.76	2	1.15962E-05	0.148816002	3.56154E-06	26.81612185	-23.77123811	-25.85370323	0.307130519	3.65249148	2
191	99.71	2	1.11641E-05	0.148827166	3.29853E-06	26.81971786	-23.80912674	-25.93036946	0.295459577	3.620787978	2
192	119.52	1	3.47116E-05	0.148861878	2.80229E-05	25.46667685	-21.98143012	-23.0974508	0.807304286	3.121254073	2
193	139.56	1	0.000265607	0.149127485	0.000232309	24.23008892	-19.94534037	-20.98050379	0.874634566	3.030412578	2
194	159.45	1	0.001654697	0.150782182	0.001443852	23.11604253	-18.10867972	-19.14136936	0.872578251	2.950913435	2
195	179.02	1	0.007990301	0.158772483	0.006815609	22.115576	-16.49793905	-17.53173708	0.852985299	2.840851673	2
196	179.02	1	0.007118856	0.165891338	0.006349788	22.115576	-16.55876623	-17.51688842	0.891967456	2.780024488	2
197	169.21	1	0.003180365	0.169071703	0.002927493	22.60602224	-17.3284986	-18.23493609	0.920489813	2.85385966	2
198	159.36	1	0.00139886	0.170470564	0.001312004	23.1208527	-18.13411433	-19.01284857	0.937909145	2.933752307	2
199	149.4	1	0.000570129	0.171040693	0.000539487	23.66583836	-19.02495749	-19.89095187	0.946253374	2.980284495	2
200	139.5	1	0.000232317	0.17127301	0.000219253	24.23361202	-19.91999261	-20.78703574	0.94376629	3.061820064	2
201	99.92	4	2.43661E-05	0.171297376	1.62394E-06	26.80462112	-23.56032841	-27.07745398	0.066647399	3.843619914	2
202	99.84	4	1.94049E-05	0.171316781	-1.80105E-06	26.81037025	-23.78784863		-0.09281426	3.625988205	2
203	99.84	4	1.99685E-05	0.171336749	-2.12663E-06	26.81037025	-23.75908317		-0.106499271	3.654753661	2
204	119.74	2	5.37214E-05	0.171390471	4.57332E-05	25.45241671	-22.07602981	-23.04611038	0.851303823	3.002126923	2
205	119.78	2	6.30293E-05	0.1714535	5.11153E-05	25.44982567	-21.91584683	-22.93430528	0.810976503	3.157853319	2
206	139.6	1	0.000253592	0.171707092	0.000242227	24.22774076	-19.82950177	-20.68370797	0.955186401	3.142212345	2
207	139.54	1	0.00026587	0.171972962	0.000256081	24.23126318	-19.78046054	-20.6252813	0.963180332	3.197312125	2
208	139.65	1	0.000258156	0.172231118	0.00024881	24.2248062	-19.80813604	-20.65125001	0.963796609	3.158530629	2
209	159.4	1	0.001639981	0.173871099	0.001544816	23.1187146	-17.95286336	-18.81526201	0.941971701	3.11132575	2

210	159.37	1	0.001577075	0.175448174	0.001502151	23.12031814	-17.98120565	-18.82648037	0.952492026	3.085741548	2
211	178.94	1	0.006919967	0.182368141	0.006557469	22.11948948	-16.47428404	-17.30967968	0.947615721	2.871237872	2
212	179.09	1	0.006975151	0.189343292	0.006705453	22.11215284	-16.42161733	-17.13574946	0.96133452	2.911285553	2
213	178.98	1	0.00683724	0.196180532	0.006702607	22.11753257	-16.39846252	-17.06676215	0.980308824	2.943693493	2
214	159.4	1	0.001405945	0.197586477	0.001410738	23.1187146	-17.95501359	-18.58502811	1.003408895	3.109175524	2
215	159.38	1	0.001449198	0.199035675	0.00145534	23.1197836	-17.91610211	-18.54002784	1.004238503	3.149925678	2
216	139.81	2	0.000434956	0.199470631	0.000432637	24.21542038	-19.80711454	-20.43721754	0.994668518	3.143408518	2
217	139.74	2	0.000444893	0.199915524	0.000446725	24.21952578	-19.78189323	-20.40097913	1.004119066	3.175691117	2
218	119.91	3	8.83941E-05	0.200003918	7.44652E-05	25.44140844	-21.80179275	-22.59557658	0.842423441	3.257429765	2
219	119.85	3	8.99305E-05	0.200093848	7.05847E-05	25.44529262	-21.78402756	-22.64840638	0.784880402	3.281875745	2
220	99.85	4	1.70665E-05	0.200110915	-2.39707E-06	26.80965147	-23.73330969		-0.140454487	3.67929085	2
221	99.86	4	1.72973E-05	0.200128212	-3.73749E-06	26.80893274	-23.7197763		-0.216074221	3.691588008	2
222	99.81	4	1.68796E-05	0.200145092	-3.11625E-06	26.81252681	-23.74411934		-0.184616888	3.673426773	2
223	139.73	2	0.000446302	0.200591393	0.000446094	24.22011238	-19.77469837	-20.39686115	0.999534636	3.183894928	2
224	159.51	1.5	0.002277892	0.202869285	0.002287474	23.11283687	-17.84889987	-18.46161109	1.004206689	3.205179545	2
225	178.87	1	0.007228754	0.210098039	0.007196746	22.12291492	-16.260653	-16.86622165	0.995572039	3.090760651	2
226	188.88	1	0.014189382	0.224287421	0.014245117	21.64361622	-15.5250087	-16.08980026	1.003927936	3.002011192	2
227	198.91	1.01	0.027657718	0.251945139	0.027498507	21.18374783	-14.75423174	-15.27708663	0.994243537	2.981814523	2
228	208.7	1	0.052322504	0.304267643	0.053677481	20.75334648	-13.90875775	-14.32503014	1.025896649	3.086998192	2
229	218.65	1	0.094237921	0.398505564	0.099900142	20.33346889	-13.00086134	-13.29040345	1.060084319	3.272705155	2
230	218.52	1	0.076613772	0.475119336	0.081729532	20.33884516	-12.88202443	-13.10074168	1.066773363	3.400789246	2
231	218.52	1	0.06045478	0.535574116	0.06510436	20.33884516	-12.8735409	-13.04982291	1.076910056	3.40927278	2
232	208.66	1	0.024310658	0.559884774	0.026889881	20.75506943	-13.63610714	-13.7694263	1.10609434	3.362612271	2
233	198.8	1	0.010622182	0.570506955	0.012118294	21.18868524	-14.40242071	-14.49735147	1.14084794	3.342117905	2
234	189.01	1	0.004901433	0.575408388	0.005553046	21.63752813	-15.1482812	-15.24646843	1.13294346	3.368267181	2
235	179.2	1	0.002181288	0.577589677	0.002501614	22.10677573	-15.94528334	-16.02963689	1.1468517	3.37837091	2
236	169.48	1	0.000933215	0.578522892	0.001076954	22.59223279	-16.7887656	-16.86610918	1.154025043	3.369874797	2
237	159.67	1.5	0.000598424	0.579121316	0.00068976	23.10429278	-17.63583404	-17.71399853	1.152626899	3.403549537	2
238	149.75	2	0.000312555	0.579433871	0.000360642	23.64625207	-18.57140853	-18.64827951	1.153851642	3.400145028	2
239	139.78	2	0.000121985	0.579555856	0.000139741	24.21717967	-19.51151289	-19.59549157	1.145554469	3.442036141	2
240	139.75	2	0.000121925	0.579677781	0.000142195	24.21893921	-19.51157536	-19.57758503	1.166251425	3.445000081	2
241	159.6	1.5	0.000642941	0.580320721	0.000727734	23.10803004	-17.559878	-17.65562664	1.13188356	3.485933669	2
242	179.44	1	0.002457695	0.582778417	0.002800576	22.09505292	-15.8079438	-15.8962745	1.139512919	3.495547217	2
243	198.82	1	0.010977171	0.593755588	0.012522598	21.18778736	-14.28723547	-14.37140343	1.140785527	3.455758786	2
244	218.67	1	0.037110386	0.630865974	0.040798827	20.33264202	-12.98150554	-13.09515392	1.099391075	3.290638745	2
245	228.54	1	0.049910169	0.680776143	0.055457077	19.93262772	-12.52265762	-12.61523632	1.111137833	3.061462057	2
246	238.47	1	0.047605671	0.728381814	0.054848268	19.54575662	-12.37788028	-12.42189091	1.152137273	2.540821102	2
247	248.47	1	0.027287314	0.755669128	0.033071635	19.17104406	-12.77626076	-12.75652452	1.211978383	1.497935013	2
248	248.65	1	0.005981075	0.761650204	0.006832492	19.16443082	-14.2192911	-14.25178242	1.142351789	0.0435299	3
249	238.85	1	0.001641212	0.763291416	0.001757102	19.53125	-15.4946418	-15.59158052	1.070612509	-0.600891797	3
250	229.11	1	0.000642046	0.763933462	0.006095215	19.91000677	-16.42778389	-16.51353467	1.082810787	-0.882572245	3
251	219.41	1	0.000257653	0.764191116	0.000287969	20.30209518	-17.33870007	-17.39279344	1.117661435	-1.119096372	3
252	209.51	1	0.000106278	0.764297394	0.000122274	20.71851821	-18.22339151	-18.24850469	1.150504303	-1.287540183	3
253	199.51	1	4.38795E-05	0.764341273	5.97717E-05	21.15685694	-19.10765026	-18.96384304	1.362179234	-1.417856327	3
254	199.5	1	4.64007E-05	0.764387674	5.47833E-05	21.15730456	-19.0515679	-19.05074342	1.180657012	-1.361004061	3
255	199.5	1	4.19214E-05	0.764429595	5.49059E-05	21.15730456	-19.15287738	-19.04827326	1.309734606	-1.462313542	3
256	219.46	1	0.00025035	0.764679945	0.000269595	20.30003451	-17.36512006	-17.45627595	1.076872042	-1.149060705	3
257	238.96	1	0.001159902	0.765839847	0.00124772	19.52705473	-15.82853738	-15.9208576	1.075711724	-0.942003242	3
258	258.56	1	0.004024462	0.769864309	0.004350884	18.80724455	-14.57207972	-14.6596836	1.081109409	-0.923619093	3
259	238.93	1	0.000687922	0.770552232	0.000759177	19.52819872	-16.32723439	-16.39449747	1.103580175	-1.438732589	3
260	219.31	1	0.000129508	0.77068174	0.000144458	20.30621776	-17.99519143	-18.05177143	1.115438436	-1.768496871	3
261	199.44	1	2.50011E-05	0.770706741	3.45834E-05	21.15999069	-19.63964133	-19.48099855	1.383274239	-1.944457344	3
262	229.25	1	0.00026415	0.770970891	0.000299235	19.9044586	-17.28134296	-17.32241278	1.132821758	-1.745674166	3
263	258.74	1.01	0.002407084	0.773377975	0.002646993	18.80087988	-15.07514889	-15.14595786	1.099668026	-1.437635499	3
264	249.07	1	0.00091834	0.774296315	0.00102266	19.14901766	-16.02070106	-16.0789695	1.113596795	-1.784390688	3
265	239.29	1	0.000361828	0.774658143	0.000407432	19.51447974	-16.94896682	-16.99610742	1.126037559	-2.084061658	3
266	229.42	1	0.000163386	0.774821529	0.000186998	19.89772569	-17.74273415	-17.7735734	1.144516374	-2.218645963	3
267	219.51	1	6.98833E-05	0.774891412	8.27554E-05	20.29797426	-18.59144983	-18.58818485	1.184194835	-2.378934097	3
268	209.47	1	3.11591E-05	0.774922571	3.99653E-05	20.72023538	-19.39892329	-19.31579128	1.28262279	-2.460118431	3
269	199.51	1	1.5532E-05	0.774938103	2.62763E-05	21.15685694	-20.09501004	-19.73499075	1.691748489	-2.405216109	3
270	199.49	1	1.45755E-05	0.774952678	2.21175E-05	21.1577522	-20.15849718	-19.90717873	1.517446153	-2.467163392	3
271		2	0.225047322	1	0.26070115	6.356672917	-7.604618228		1.158428141		

ROY-0202C3B	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
1	29	1.00	-1.99238E-07		4.70042E-05	33.04583457		-30.55802699			1
2	40	1.00	-8.60517E-08		3.5594E-05	31.98055582		-29.82185126			1
3	50	1.00	3.72092E-07		3.07236E-05	30.97797466		-29.55576135			1
4	60	1.00	7.66813E-07	8.53616E-07	2.88303E-05	30.04175804	-38.58544234	-29.35395065	37.59762675	3.617873188	1
5	70	1.00	2.57559E-06	3.4292E-06	2.95303E-05	29.16557296	-35.85781016	-29.12421528	11.46547341	2.340570204	1
6	80	1.00	2.44353E-06	5.87273E-06	2.84065E-05	28.33663927	-35.13483342	-28.99360339	11.6251798	1.045416158	1
7	90	1.00	7.16388E-06	1.30366E-05	2.93458E-05	27.55428194	-33.34979078	-28.81667383	4.09635094	-0.123308905	1
8	100	1.00	1.50931E-05	2.81297E-05	3.01699E-05	26.81612185	-31.82664306	-28.65921331	1.998920113	-1.235483722	1
9	110	1.00	2.8448E-05	5.65777E-05	3.17379E-05	26.1137515	-30.47121721	-28.48934803	1.115646003	-2.273695443	1
10	120	1.00	4.60433E-05	0.000102621	3.57923E-05	25.44982567	-29.35876444	-28.25350673	0.777361718	-3.179806582	1
11	130	1.00	7.03077E-05	0.000172929	4.03435E-05	24.8188226	-28.38685035	-28.01771288	0.573814215	-4.029338014	1
12	140	1.00	9.81414E-05	0.00027107	4.53817E-05	24.21835267	-27.57626794	-27.78366254	0.46241136	-4.82809595	1
13	150	1.00	0.000130611	0.000401682	5.19739E-05	23.64513383	-26.87489579	-27.53045967	0.397927467	-5.560829481	1
14	140	1.00	6.01701E-05	0.000461852	2.593E-05	24.21835267	-27.40029197	-28.14075999	0.430945854	-5.185193398	1
15	130	1.00	2.89849E-05	0.000490837	1.49534E-05	24.81943858	-28.03243816	-28.64932825	0.515904875	-4.659893884	1
16	120	1.00	1.68857E-05	0.000507722	8.83503E-06	25.45047338	-28.52572194	-29.15195183	0.523227264	-4.077137616	1
17	120	1.00	1.68857E-05	0.000524608	8.83503E-06	25.45047338	-28.49246121	-29.13478108	0.523227264	-4.059966864	1
18	110	1.00	9.00951E-06	0.000533617	5.34367E-06	26.11443345	-29.09587018	-29.62402497	0.593114677	-3.407199444	1
19	100	1.00	4.8595E-06	0.000538477	4.11321E-06	26.81540277	-29.70019434	-29.87678622	0.846426348	-2.454293461	1
20	110	1.00	7.93858E-06	0.000546415	5.06617E-06	26.11443345	-29.19752861	-29.65979476	0.638170776	-3.442969229	1
21	120	1.00	1.30194E-05	0.000559435	7.46508E-06	25.45047338	-28.68369006	-29.26050927	0.573381573	-4.185695062	1
22	130	1.00	2.1972E-05	0.000581407	1.03484E-05	24.8200546	-28.12921113	-28.91760271	0.470982337	-4.927108787	1
23	140	1.00	3.64642E-05	0.000617871	1.51321E-05	24.21717967	-27.5726945	-28.51473865	0.41498567	-5.56118962	1
24	150	1.00	6.47431E-05	0.000682614	2.57162E-05	23.64457475	-26.91757966	-27.94882066	0.397203263	-5.980152081	1
25	140	1.00	3.49608E-05	0.000717575	1.43982E-05	24.21776615	-27.45991019	-28.49505035	0.411839898	-5.540492562	1
26	130	1.00	1.90949E-05	0.00073667	8.72684E-06	24.81943858	-28.02683741	-28.97678339	0.45702532	-4.987349026	1
27	120	1.00	1.06188E-05	0.000747288	5.40631E-06	25.45047338	-28.59340388	-29.44420162	0.509125624	-4.369387412	1
28	110	1.00	5.42773E-06	0.000752716	3.38806E-06	26.1164795	-29.2537542	-29.90447147	0.624212291	-3.684126731	1
29	100	1.00	4.02133E-06	0.000756738	2.21483E-06	26.81540277	-29.54738331	-30.32509282	0.550770593	-2.902600063	1
30	110	1.00	5.31905E-06	0.000762057	3.43345E-06	26.11579745	-29.26153193	-29.88222891	0.645499337	-3.663057303	1
31	120	1.00	9.15138E-06	0.000771208	4.13527E-06	25.4517689	-28.7094401	-29.69027465	0.451873842	-4.613232143	1
32	130	1.00	1.42395E-05	0.000785447	6.39921E-06	26.82067065	-28.25218409	-29.24540799	0.449398066	-5.253854469	1
33	140	1.00	2.60702E-05	0.000811518	1.0831E-05	24.21835267	-27.62184504	-28.70582462	0.41545656	-5.750258033	1
34	150	1.00	4.55249E-05	0.000857043	1.839E-05	23.64569294	-27.02052244	-28.154208	0.403954567	-6.183616148	1
35	140	1.00	2.54166E-05	0.00082459	1.03173E-05	24.21893921	-27.56174271	-28.710825	0.405929279	-5.75424956	1
36	130	1.00	1.49927E-05	0.000897452	6.19065E-06	24.8200546	-28.0666167	-29.20952963	0.412910612	-5.219035713	1
37	120	1.00	9.24034E-06	0.000906692	3.68187E-06	25.45112112	-28.53707864	-29.72199133	0.398456339	-4.646063	1
38	110	1.00	4.37915E-06	0.000911071	2.34419E-06	26.1164795	-29.27628196	-30.16913121	0.535306196	-3.94878647	1
39	100	1.00	3.30221E-06	0.000914374	2.58622E-06	26.81684098	-29.55432674	-30.06733372	0.783176845	-2.642367244	1
40	110	1.00	4.41375E-06	0.000918787	2.36476E-06	26.11511543	-29.25997734	-30.15331406	0.535770076	-3.935315523	1
41	120	1.00	7.2628E-06	0.00092605	3.55123E-06	25.45047338	-28.75558763	-29.7424777	0.488962384	-4.667663492	1
42	130	1.00	1.22696E-05	0.00093832	4.77823E-06	24.8200546	-28.22069493	-29.43979736	0.38943607	-5.449303438	1
43	140	1.00	1.93965E-05	0.000957716	7.93391E-06	24.21952578	-27.74588567	-28.9237754	0.409038258	-5.966191053	1
44	150	1.00	3.38212E-05	0.000991538	1.45439E-05	23.64681123	-27.16220912	-28.3021277	0.43002179	-6.329612393	1
45	160	1.00	6.19141E-05	0.001053452	2.61035E-05	23.0994895	-26.5096028	-27.68957653	0.421608212	-6.658454586	1
46	170	1.00	0.000122751	0.001176203	6.29379E-05	22.57846015	-25.73873928	-26.75147431	0.512728024	-6.616522851	1
47	160	1.00	6.11312E-05	0.001237334	3.18375E-05	23.0994895	-26.35662875	-27.37470598	0.520806454	-6.343584036	2
48	150	1.00	3.3318E-05	0.001270652	1.69932E-05	23.64625207	-26.92516622	-27.97378748	0.510032026	-6.002233923	2
49	140	1.00	1.72393E-05	0.001287891	8.7851E-06	24.21893921	-27.56411449	-28.61869665	0.509597519	-5.662121207	2
50	130	1.00	1.02048E-05	0.001298096	4.11158E-06	24.8200546	-28.07777412	-29.37059967	0.402904719	-5.38010575	2
51	120	1.00	6.00629E-06	0.001304102	2.78548E-06	25.44982567	-28.6015796	-29.75607798	0.463761037	-4.682377827	2
52	130	1.00	8.93393E-06	0.001313036	3.92686E-06	24.8200546	-28.19880632	-29.40887159	0.439544775	-5.418377672	2
53	140	1.00	1.62081E-05	0.001329244	8.08836E-06	24.21893921	-27.59359134	-28.6795417	0.499032167	-5.722966259	2
54	150	1.00	2.58203E-05	0.001355065	1.45473E-05	23.64681123	-27.11215835	-28.07997925	0.563403836	-6.107463941	2
55	160	1.00	5.11112E-05	0.001406176	3.11459E-05	23.1005672	-26.40106005	-27.29376839	0.609375888	-6.260810827	2
56	170	1.00	0.000111355	0.001517531	8.22471E-05	22.57947977	-25.56516383	-26.26341445	0.738599634	-6.126709249	2
57	160	1.00	6.41631E-05	0.001581695	4.62952E-05	23.0994895	-26.05816286	-26.77486811	0.721523812	-5.743746172	2
58	150	1.00	3.24173E-05	0.001614112	2.17641E-05	23.64681123	-26.71021238	-27.49771695	0.671372067	-5.525201635	2
59	140	1.00	1.54271E-05	0.001629539	9.20634E-06	24.21952578	-27.43791912	-28.34388591	0.596764454	-5.386301565	2
60	130	1.00	7.70672E-06	0.001637246	4.35475E-06	24.8200546	-28.12484551	-29.08635682	0.565059099	-5.095862897	2
61	120	1.00	4.91372E-06	0.001642159	2.93051E-06	25.45112112	-28.57105	-29.47915846	0.596392101	-4.403230127	2
62	130	1.00	8.22026E-06	0.00165038	4.89036E-06	24.81943858	-28.0524835	-28.96354602	0.594916279	-4.974111653	2
63	140	1.00	1.39051E-05	0.001664285	9.43254E-06	24.21952578	-27.52013105	-28.30023249	0.67835017	-5.342648146	2

64	150	1.00	2.91902E-05	0.001693475	2.10953E-05	23.64681123	-26.76563871	-27.48180765	0.722686495	-5.509292337	2
65	160	1.00	6.37693E-05	0.001757244	4.91918E-05	23.10055672	-25.95689019	-26.6046406	0.771403842	-5.571683039	2
66	170	1.00	0.000142446	0.00189969	0.00012232	22.57846015	-25.09515543	-25.62300805	0.858712073	-5.488056599	2
67	180	1.00	0.000426764	0.002326454	0.000395139	22.08090443	-23.85322219	-24.26310859	0.925896441	-4.983952966	2
68	185	1.00	0.000825343	0.003151797	0.000814833	21.83930638	-22.93415895	-23.20332225	0.987266277	-4.339715275	2
69	180	1.00	0.000638851	0.003790649	0.000654746	22.08041688	-22.95341839	-23.12444337	1.024881105	-3.84612634	2
70	170	1.00	0.00030096	0.004091609	0.000311963	22.57869995	-23.57915162	-23.70937487	1.036560566	-3.573546563	2
71	160	1.00	0.000116623	0.004208232	0.000116724	23.10215774	-24.47556159	-24.63020705	1.000870221	-3.59449573	2
72	150	1.00	5.694E-05	0.004265172	5.4284E-05	23.64625207	-25.17181363	-25.37200739	0.953354944	-3.400453827	2
73	140	1.00	2.32677E-05	0.004288439	2.09092E-05	24.21835267	-26.05732626	-26.31576545	0.898638642	-3.360198858	2
74	130	1.00	9.92575E-06	0.004298365	8.5427E-06	24.8200546	-26.90538481	-27.20691837	0.86062691	-3.216424448	2
75	120	1.00	4.12391E-06	0.004302489	2.99474E-06	25.45241671	-27.78208142	-28.25353618	0.726190725	-3.175379442	2
76	130	1.00	8.28598E-06	0.004310775	7.29974E-06	24.8200546	-27.08287556	-27.3611642	0.880974676	-3.370670285	2
77	140	1.00	1.96935E-05	0.004330468	1.70964E-05	24.21952578	-26.21390973	-26.50684557	0.868123812	-3.549261222	2
78	150	1.00	5.10653E-05	0.004381534	4.75663E-05	23.64681123	-25.2529381	-25.47491834	0.931480784	-3.502403028	2
79	160	1.00	0.000141338	0.004522871	0.000144275	23.1000231	-24.21304606	-24.34003368	1.020783208	-3.307993949	2
80	170	1.00	0.000358492	0.004881364	0.000374737	22.57795037	-23.2276763	-23.32016121	1.045312808	-3.186086567	2
81	180	1.00	0.000747152	0.005628516	0.000787541	22.08724462	-22.38215921	-22.44494344	1.054056409	-3.154882704	2
82	190	1.00	0.002177442	0.007805958	0.002322298	21.602938	-21.06701395	-21.07678842	1.066525687	-2.619735063	2
83	200	1.00	0.004732862	0.012538819	0.00503323	21.14835572	-19.8756345	-19.83975675	1.06346441	-2.16458492	2
84	190	1.00	0.002315456	0.014854275	0.002480205	21.61180869	-20.2930912	-20.22618963	1.071152118	-1.753878675	2
85	180	1.00	0.001142095	0.01599637	0.001213303	22.07992934	-20.88096668	-20.81448067	1.062348447	-1.537002198	2
86	170	1.00	0.000492794	0.016489164	0.000532389	22.57795037	-21.66985863	-21.58348638	1.080348646	-1.449411733	2
87	160	1.00	0.000203906	0.01669307	0.000219389	23.11070025	-22.53106796	-22.4473386	1.075931799	-1.396934164	2
88	150	1.00	8.50569E-05	0.016778127	9.04461E-05	23.64457475	-23.39673797	-23.32423557	1.063360038	-1.355566995	2
89	160	1.00	0.000220102	0.016998229	0.000235168	23.09468822	-22.43689241	-22.35911395	1.068451526	-1.336250212	2
90	170	1.00	0.000482113	0.017480342	0.000522119	22.57846015	-21.63222738	-21.53959839	1.082980744	-1.404646937	2
91	180	1.00	0.001227803	0.018708145	0.001325538	22.07895434	-20.64902159	-20.55637104	1.079602019	-1.28056957	2
92	190	1.00	0.002272246	0.020980391	0.002478964	21.6034047	-19.94115743	-19.83190245	1.090974857	-1.37404637	2
93	200	1.00	0.004459612	0.025440003	0.004811288	21.15551418	-19.11018816	-19.00355469	1.078858153	-1.316070289	2
94	190	1.00	0.002122182	0.027562185	0.002313	21.60387141	-19.72021092	-19.59723118	1.089916257	-1.13857235	2
95	180	1.00	0.001104334	0.028666519	0.001202779	22.08041688	-20.31431876	-20.18917182	1.089143612	-0.910854791	2
96	170	1.00	0.00047251	0.029139029	0.000507468	22.58815026	-21.13560007	-21.02331736	1.073982296	-0.871698915	2
97	160	1.00	0.000197147	0.029336176	0.000210651	23.0994895	-21.99819212	-21.89069408	1.068496388	-0.859572134	2
98	150	1.00	7.8887E-05	0.029415063	8.26645E-05	23.64681123	-22.909415	-22.82130354	1.047884553	-0.848788225	2
99	150	1.00	7.15274E-05	0.02948659	7.3215E-05	23.64569294	-23.00479456	-22.94015157	1.023593354	-0.969559715	2
100	150	1.00	8.17936E-05	0.029568384	8.82814E-05	23.64569294	-22.86807589	-22.75039429	1.079318923	-0.779802434	2
101	160	1.00	0.000185572	0.029753956	0.000195615	23.0994895	-22.04431599	-21.95017364	1.054119857	-0.9190517	2
102	170	1.00	0.00053317	0.030287125	0.00057677	22.58661969	-20.97687506	-20.85646397	1.081775511	-0.707478108	2
103	180	1.00	0.001037806	0.031324932	0.001118489	22.08041688	-20.28502199	-20.16745456	1.077743865	-0.889137525	2
104	190	1.00	0.002189216	0.033514148	0.002339993	21.60387141	-19.48753667	-19.37689545	1.068872446	-0.918236621	2
105	200	1.00	0.004137405	0.037651553	0.004459312	21.14790847	-18.75790897	-18.63642349	1.077804183	-0.962020917	2
106	190	1.00	0.002188289	0.039839842	0.002380954	21.61227577	-19.3097018	-19.17613952	1.088043725	-0.703025189	2
107	180	1.00	0.000846299	0.040686141	0.000926341	22.07944183	-20.2212917	-20.08032581	1.094579658	-0.803685857	2
108	170	1.00	0.000371895	0.041058036	0.000400834	22.57846015	-21.02853701	-20.90247383	1.077814804	-0.767522374	2
109	160	1.00	0.000193766	0.041251802	0.000209386	23.11070025	-21.67360241	-21.54477287	1.080614851	-0.494368437	2
110	150	1.00	6.43181E-05	0.04131612	6.6815E-05	23.65184484	-22.77328168	-22.68384337	1.038821415	-0.702670236	2
111	150	1.00	7.00341E-05	0.041386154	7.33603E-05	23.64457475	-22.68651426	-22.58877754	1.047492963	-0.620108964	2
112	160	1.00	0.000183947	0.041570101	0.000202771	23.1000231	-21.71778345	-21.56891686	1.102333276	-0.536877126	2
113	170	1.00	0.00050211	0.042072211	0.000545674	22.58764004	-20.70537587	-20.57043758	1.086763028	-0.419696707	2
114	180	1.00	0.001202307	0.043274518	0.00128328	22.07992934	-19.81202402	-19.69473361	1.067347968	-0.417255138	2
115	190	1.00	0.002395536	0.045670054	0.00259067	21.60480491	-19.08136838	-18.95005338	1.081457242	-0.489788937	2
116	200	1.00	0.00419121	0.049861264	0.004580325	21.14880298	-18.45054518	-18.30652097	1.092840829	-0.630579852	2
117	209	1.00	0.008109844	0.057971109	0.008832128	20.74258453	-17.66933213	-17.52515603	1.089062529	-0.547910647	2
118	219	1.00	0.014223146	0.072194254	0.016284774	20.31075454	-16.91931246	-16.71478916	1.144948829	-0.480291342	2
119	229	1.00	0.02330189	0.095496144	0.026926873	19.90961037	-16.17233486	-15.86631123	1.155566046	-0.321781392	2
120	239	1.00	0.036560629	0.132056773	0.042737991	19.52400476	-15.32102863	-15.05015323	1.168962112	-0.168865036	2
121	249	1.00	0.060790323	0.192847097	0.070407447	19.15415262	-14.41119523	-14.12691248	1.158201552	0.118230028	2
122	229	1.00	0.018696982	0.211544078	0.021236608	19.90881762	-15.3353958	-15.05917258	1.135830805	0.48399372	2
123	210	1.00	0.004570682	0.21611476	0.004800192	20.71379746	-16.6768711	-16.4778051	1.050213415	0.44992653	2
124	190	1.00	0.001119007	0.217233768	0.001151389	21.6034047	-18.06806127	-17.89020136	1.028937606	0.567654722	2
125	170	1.00	0.000199211	0.217432979	0.000214761	22.57846015	-19.79019921	-19.56590835	1.07805425	0.569043106	2
126	150	1.00	4.08907E-05	0.21747387	4.77046E-05	23.64569294	-21.37299097	-21.06973572	1.166635124	0.900856129	2
127	170	1.00	0.000208983	0.217682853	0.000219739	22.58661969	-19.74094055	-19.54163961	1.051466013	0.607346249	2
128	190	1.00	0.001260625	0.218943478	0.001330572	21.6034047	-17.93972905	-17.73676301	1.055486419	0.721093069	2

129	209	1.00	0.005735114	0.224678592	0.00603195	20.72152345	-16.40532684	-16.20664188	1.051757587	0.734378445	2
130	229	1.00	0.018467575	0.243146168	0.021323482	19.90842126	-15.17045615	-14.87613654	1.154644369	0.666348032	2
131	249	1.00	0.054900789	0.298046957	0.062762511	19.16039164	-13.89594474	-13.60149049	1.143198701	0.65438313	2
132	219	1.00	0.009360776	0.307407733	0.009723614	20.31075454	-15.51901769	-15.31427562	1.038761445	0.920222201	2
133	190	1.00	0.001010775	0.308418508	0.001037807	21.60433815	-17.72208455	-17.52978231	1.026743658	0.929679311	2
134	1300	2.00	0.691581492	1	0.652161642	6.356672917	-7.577425911	#DIV/0!	0.943000427	-14.93409883	

RS-34TLCM	Temp (C)	Time (Hrs)	F3	F3c	F4	10^4/T	lnD3	lnD4	Bulk-Normalized		Stage
									4He/3He	Delta	
1	140	0.5	0.080557498	0.080557498	-0.009285304	24.20428416	-14.97189918	-19.29297565	-0.115263066	7.959469567	1
2	160	0.5	0.058622406	0.139179903	0.012110427	23.08669052	-14.19255172		0.206583581	6.816555978	1
3	170	0.5	0.041731088	0.180910992	0.018900598	22.56572267	-14.11247788	-17.6099018	0.452914097	6.000565111	1
4	180	0.5	0.041827666	0.222738658	0.028359612	22.06774799	-13.83856094	-16.13083713	0.678010859	5.417965599	1
5	190	0.5	0.049453542	0.2721922	0.044643326	21.59127712	-13.42113938	-14.97568663	0.902732636	5.01585727	2
6	200	0.5	0.086297316	0.358489515	0.09849995	21.13494663	-12.54651046	-13.36936747	1.141402242	5.10597751	2
7	210	0.5	0.13717114	0.495660656	0.162818966	20.69750595	-11.63658077	-12.08636962	1.186976832	5.263129461	2
8	220	0.5	0.116377223	0.612037879	0.129586689	20.27780594	-11.34817453	-11.71748039	1.11350559	4.829651687	2
9	225	0.5	0.105698766	0.717736645	0.112527996	20.07427482	-11.03716868	-11.42481273	1.064610308	4.790584005	2
10	230	0.5	0.098991632	0.816728277	0.107267682	19.87478883	-10.66330027	-11.07258381	1.083603525	4.821336518	3
11	235	0.5	0.058465225	0.875193502	0.062964322	19.67922857	-10.74644942	-11.26551917	1.076953382	4.401823731	3
12	240	0.5	0.018849363	0.894042865	0.02195785	19.48747929	-11.57453684	-12.1250499	1.164912081	3.243927544	3
13	245	0.5	0.005774028	0.899816893	0.008365938	19.29943067	-12.63048782	-13.01294985	1.44889105	1.864532927	3
14	250	0.5	0.003605599	0.903422492	0.007372981	19.11497658	-13.09106232	-13.09706201	2.044869786	1.086697407	3
15	255	0.5	0.003444604	0.906867096	0.007254885	18.93401496	-13.10025417	-13.07260462	2.10615923	0.766251559	3
16	260	0.5	0.003339944	0.91020704	0.005480578	18.75644753	-13.09469028	-13.31662421	1.640919325	0.466399468	3
17	265	0.5	0.003420868	0.913627908	0.00592592	18.58217969	-13.03307574	-13.20479684	1.732285485	0.228273326	3
18	270	0.5	0.003425061	0.917052969	0.007809697	18.41112032	-12.99220388	-12.88674399	2.280162975	-0.025076936	3
19	275	0.5	0.003603094	0.920656063	0.008566778	18.24318161	-12.89910779	-12.74196799	2.377616732	-0.220835421	3
20	280	0.5	0.003645464	0.924301527	0.00707599	18.07827895	-12.8417052	-12.88084041	1.94103974	-0.447065414	3
21	285	0.5	0.003856246	0.928157773	0.008115857	17.91633074	-12.73585645	-12.69005953	2.104600284	-0.619767582	3
22	290	0.5	0.004093649	0.932251422	0.008627764	17.75725828	-12.62066607	-12.56616247	2.107597322	-0.77818183	3
23	295	0.5	0.003883607	0.936135029	0.007139593	17.60098566	-12.6144897	-12.69252934	1.838392409	-1.040794374	3
24	335	0.5	0.021086212	0.957221241	0.034117822	16.44331168	-10.69929059	-10.95523063	1.618015664	-1.116794497	3
25	355	0.5	0.013858677	0.971079919	0.024426068	15.91976439	-10.72257731	-10.98322365	1.762510716	-2.040582563	3
26	385	0.5	0.015237995	0.986317914	0.03651549	15.19410469	-10.07457399	-10.07598001	2.396344756	-2.640713929	3
27	415	0.5	0.013682086	1	0.032852528	14.53171547			2.401134463	6.294550607	