

**Supplement 1 - Data Table**

FTIR grain #	EBSD #	Integrated absorbance ce thickness (microns)		Long
1	10485	6.57	75	
2	13240	35.37	77	
3	13266	5.01	77	
4	11001	10.98	75	
5	10599	32.11	75	
6	10193	49.81	76	
7	13417	5.7	74	
8	13437	26.81	73	
9	13453	3.83	72	
10	11230	4.11	72	
11	13468	4.23	71	
12	13502	92.96	71	
13	11246	27.52	71	
14	11151	50.92	72	
15	13392	30.27	73	
16	10554	28.34	74	
17	10365	5.19	75	
18	13172	6.1	78	
19	13147	9.42	78	
20	13066	2.17	79	
21	13056	19.41	79	
22	8496	4.256	80	
23	8278	54.59	80	
24	12970	3.18	80	
25	7949	9.132	81	
26	7570	41.74	82	
27	8277	3.97	80	
28	13000	24.11	79	
29	12945	47.36	80	
30	8287	5.84	79	
31	9357	10.69	77	
32	13122	5.83	77	
33	12985	6.67	78	
34	12944	84.07	79	
35	8043	92.43	79	
36	12873	2.74	81	
37	7719	6.23	80	
38	8777	18.87	78	
39	13310	91.89	78	
40	13291	26.65	77	
41	10659	12.5	77	
42	10631	4.38	76	
43	13368	7.62	76	
44	13371	5.64	76	

45	10993	6.54	76
46	13428	22.1	75
47	10555	9.73	75
48	10935	8.09	74
49	11233	1.58	73
50	13430	12.08	74
51	13476	7.02	72
52	11447	6.26	72
53	11440	14.08	71
54	13479	26.47	72
55	11311	56.05	72
56	13450	69.33	73
57	13422	3.92	73
58	13161	8.07	79
59	12894	54.99	82
60	7215	21.36	83
61	12727	2.45	84
62	8175	6.21	81
63	12958	24.04	81
64	12912	4.93	82
65	12846	11.51	84
66	7349	9.4	82
67	12761	16.57	83
68	6900	12.35	83
69	12670	44.74	84
70	6480	49.14	84
71	12755	5.22	82
72	12789	8.14	82
73	12773	32.62	81
74	12767	5.33	81
75	12685	24.68	81
76	12717	99.18	82
77	12629	31.3	82
79	12355	13.62	87
80	5134	13.2	86
81	4863	15.9	87
82	12422	62.23	87
83	5357	17.14	87
84	12452	9.33	87
85	12273	22.09	88
86	12308	155.77	88
87	12264	39.39	88
88	12170	34.41	88
89	12117	49.96	89
90	12218	20.07	89
91	12175	16.89	89
92	12192	16.12	89

93	12026	102.34	91
94	12008	6.7	91
95	2821	27.85	90
96	12037	42.26	91
97	11901	19.72	91
98	2324	11.39	91
99	11928	7.08	91
100	2118	6.11	92
101	11819	34.57	92
102	4294	28.54	87
103	4812	25.39	87
104	5197	5.24	86
105	12506	13.8	85
106	12538	76.79	85
107	12465	5.27	85
108	5133	14.98	86
109	4861	14.22	86
110	12375	30.86	87
111	4663	16.38	87
112	12353	13.92	87
113	4876	9.13	87
114	12325	4.26	87
115	4322	35.65	87
116	4195	21.07	87
117	4194	75.93	87
118	12323	61.48	87
119	12362	13.13	86
120	4478	98.11	87
121	12284	11.3	87
122	4260	11.54	87
123	12338	84.38	86
124	5079	28.96	85
125	5008	79.61	85
126	12306	9.94	86
127	12294	6.26	86
128	3669	31.59	86
129	12240	47.41	87
130	12151	10.02	87
131	3407	54.44	88
132	3180	14.25	88
133	3417	29.59	88
134	12092	11.86	88
135	12167	28.15	87
136	12022	28.74	88
137	2818	43.63	88
138	12036	109.56	89
139	2572	30.53	89

140	2527	16.08	90
141	11847	28.47	91
142	1742	41.79	92
143	2246	23.61	91
144	2397	2.88	91
145	12010	22.67	90
146	12014	3.52	90
147	12033	21.06	90
148	11966	15.35	90
150	12763	5.29	85
151	12713	5.68	86
154	8905	14.44	83
155	12993	30.47	83
156	13033	6.42	82
157	12836	45.76	85
158	12936	5.98	83
159	7088	16.697	86
160	6844	14.73	86
161	12679	10.37	86
162	12666	70.03	86
163	5847	10.3	87
169	13358	16.24	80
170	10066	31.87	81
171	9958	4.51	82
172	9296	34.59	83
173	13136	21.42	84
174	9290	18.52	84
175	13179	7.82	84
176	13153	17.26	85
177	13126	40.9	85
178	13108	38.85	85
179	13091	14.58	85
180	13181	10.6	84
181	13208	16.83	84
182	10152	33.9	83
183	11017	42.33	81
184	10841	115.08	81
185	13389	26.01	81
186	10491	19.86	82
187	10213	41.18	82
188	10237	10.45	82
189	10052	11.15	83
190	9944	33.06	83
191	13079	9.99	85
193	8939	15.29	86
194	12987	8.4	87
195	12939	64.83	88

196	12826	13.64	88
197	6936	32.29	89
198	7180	42.58	89
199	12744	23.31	90
200	12802	48.94	88
201	8650	23.99	86
202	12964	28.82	86
203	8067	46.58	86
204	12929	19.81	86
205	12905	11.44	88
206	7748	46.41	89
207	12804	24.37	89
208	7016	32.33	89
209	12780	7.04	89
210	12839	11.07	87
211	12861	65.46	87
212	12753	14.93	88
213	12707	32.15	89
214	12696	8.92	89
215	12709	10.45	89
219	9281	9.6	87
220	7913	6.93	88
221	7738	15.1	89
222	8321	14.02	88
223	13002	36.44	87
224	7303	30.73	89
225	12771	6.45	90
226	7290	19.94	89
227	12741	5.4	91
228	12736	16.29	91
229	6428	21.23	91
230	6184	45.09	92
231	5666	44.69	93
232	12483	38.61	93
233	12607	6.59	92
234	12613	40.98	92
235	12681	5.49	91
236	6329	13.26	92
237	12557	39.59	92
238	12482	35.52	92
239	5191	25.83	93
240	12440	105.72	93
241	12428	8.71	93
243	5088	29.18	93
244	12424	13.59	93
245	12461	59.34	93
246	5349	36.44	93

247	12462	31.37	93
248	5760	16.83	92
249	5932	52.26	91
250	12552	10.99	91
251	12543	7.59	91
252	12647	96.91	90
253	12711	43.15	90
254	6657	28.47	90
255	12520	40.89	91
256	5500	18.85	92
257	12539	75.12	92
258	12576	60.31	91
259	12553	48	91
260	5348	11.53	91
261	5064	15.66	91
262	4914	17.52	92
263	5100	17.74	92
264	4819	17.04	92
265	12391	30.81	92
266	4820	27.78	92
267	12327	36.04	94
268	12296	63.24	94
269	4077	27.52	94
270	12320	24.77	94
271	12336	24.24	94
272	12363	16.11	94
273	4143	36.77	95
274	12209	21.7	95
275	3384	7.11	96
276	2952	110.16	96
277	12075	34.35	96
278	2585	16.71	96
279	11991	43.98	97
280	11906	5.9	97
281	2519	26.15	97
282	2703	16.43	92
283	12099	3.98	96
284	12153	14.91	96
285	12914	32.09	95
286	12234	49.97	95
287	12252	31.73	95
288	3963	7.35	95
289	12222	14.58	95
292	12283	22.56	95
293	12341	27.1	95
294	4751	14.54	94
295	12433	42.2	94

296	5192	25.82	94
297	12434	15.19	94
299	5489	10.25	93
300	12561	67.59	93
302	3769	75.6	95
303	12191	6.08	95
304	3434	36.54	95
305	12180	13.97	95
306	12130	34.53	96
307	12108	32.66	96
308	12045	11.01	96
309	2718	17.89	96
311	2727	24.26	96
312	12076	5.78	96
313	2433	40.15	96
314	2289	21.29	96
315	2565	14.35	96
316	11934	4.4	97
318	11943	5.53	96
319	11834	4.86	97
320	1801	14.08	97
321	11831	13.24	97
322	1757	70.21	97
323	11803	5.71	97
324	1271	11.35	98
325	1078	7.61	98
326	1179	14.17	98
327	11677	11.71	98
328	11708	13.91	98
329	1241	35.11	98
330	11718	40.68	98
331	11772	22.53	98
332	11812	3.56	98
333	1802	82.82	98
334	2015	35.77	97
335	11878	11.88	97
336	11857	70.17	97
337	11825	99.04	97
338	11925	37.73	97
339	1879	12.89	97
340	1746	50.71	97
341	1452	31.08	97
342	11802	12.49	97
343	11759	7.31	97
344	985	30.61	98
345	1154	34.08	97
346	11707	31.87	97

347	11748	8.71	97
348	11715	18.77	97
349	11663	12.7	97
350	11682	42.33	97
351	11854	16.73	96
352	11896	13.53	96
353	11770	43.01	96
354	11747	50.74	96
355	11723	11.06	97
356	1144	112.34	97
357	11668	38.43	97
358	877	7.88	97
359	11842	11.12	96
360	11910	124.76	96
361	11933	37.35	96
362	11941	24.21	96
363	2475	79.06	96
364	2562	26.58	95
365	12077	19.39	95
366	1984	35.33	96
367	2607	76.49	95
369	11983	7.65	95
370	11959	16.75	95
371	11761	81.57	96
372	11743	48.78	96
373	11816	40.88	96
374	11786	26.12	95
375	11871	12.14	95
376	1904	36.46	95
377	11841	54.37	95
378	11924	11.17	94
379	11971	6.84	94
380	2269	26.72	94
381	2134	2.48	94
382	2298	31.89	94
383	1446	19.45	95
384	1230	16	95
385	11729	30.81	95
386	1552	7.82	95
387	11916	27.79	94
388	11824	46.96	94
389	11788	19.29	94
390	1684	14.09	94
392	11815	17.27	94
393	11948	79.13	93
394	11836	4.21	93
395	11830	18.74	93



396	11775	48.09	94
397	1206	21.13	94
398	11737	11.98	94
399	11714	9.5	94
400	11703	5.7	94
401	11648	7.6	95
402	11656	42.25	95
403	11695	9.97	95
404	981	11.76	94
405	11690	9.91	94
406	11951	15.38	93
407	12002	28.73	93
408	2500	54.28	93
409	12061	48.57	92
410	12081	25.59	92
411	12139	13.21	91
412	3512	89.94	92
413	3230	22.7	92
414	12255	6.83	91
415	3430	47.64	92
416	12204	41.26	92
417	3376	20.05	92
418	12112	11.92	92
419	12220	28.64	91
420	12246	19.1	91
421	12300	3.87	91
422	4576	13.81	91
423	4173	42.97	91
424	12416	62.71	90
425	12317	44.42	91
426	12295	32.41	91
427	12321	5.66	91
428	12466	5.95	90
429	12415	15.9	90
430	4709	46.67	91
431	12429	46.55	90
432	12430	22.5	90
433	12459	18.18	90
434	5741	17.93	89
435	5335	26.69	90
436	12532	19.3	89
437	5276	16.65	89
438	5770	14.76	89
439	4772	5.1	89
440	12390	1.73	92
441	12359	26.7	92
442	4487	31.18	92

443	4350	16.69	93
444	12315	62.08	92
445	12275	23.93	93
446	12221	11.09	94
447	3999	16.09	93
448	12193	27.13	94
449	3869	10.26	94
450	12107	6.59	95
451	12065	65.73	95
452	12449	5.94	88
453	4263	11.6	89
454	4684	16.66	89
455	12385	9.41	88
456	5165	2.63	88
457	5426	7.9	87
458	4683	106.71	88
459	4563	13.18	88
460	4416	7.38	89
461	12309	9.71	89
462	12250	20.68	90
463	4249	48.22	90
464	12259	12.23	90
465	12230	21.11	90
466	12115	30.7	90
467	12050	71.6	90
468	11930	27.23	93
469	11721	15.51	93
470	1389	33.09	93
471	11976	27.63	92
472	11944	16.35	92
473	2604	39.54	92
474	3083	34.3	92
475	12126	97.78	92
476	4935	53.94	88
477	12441	23.59	87
478	4758	28.46	88
479	4520	21.73	88
480	4150	28.62	88
481	12249	27.16	89
482	860	42.83	93
483	11685	32.37	93
484	11670	18.72	94
485	11669	59.53	93
486	11890	83.05	93
487	11868	65.62	93
488	12866	4.42	86
489	7820	9.45	86

490	7877	15.86	86
491	12800	70.36	87
492	12811	33.42	87
493	9076	34.78	84
494	8696	37.18	84
495	8524	19.36	85
496	13003	24.52	85
497	8608	33.17	84
498	8247	48.5	85
499	7909	8.21	86
500	8064	25.4	85
501	12995	18.39	85
502	12823	19.86	86
503	7817	41.54	85
504	7763	31.27	85
505	8088	17.99	84
506	7564	19.08	85
507	7876	31.96	85
508	7411	63.13	86
509	12824	38.69	86
510	7052	21.22	86
511	12739	10.04	87
512	6871	37.86	87
513	7089	18.91	87
514	6960	13.61	86
515	6406	23.32	87
516	12658	31.84	88
517	12575	18.27	88
518	12626	48.01	87
519	12959	25.27	84
520	8128	62.73	84
521	7904	21.05	84
522	7660	36.75	84
523	12828	42.88	85
524	9249	13.72	81
525	9277	15.29	80
526	13041	95.998	82
527	13020	11.48	82
528	13025	34.49	82
529	13149	13.26	80
530	9526	26.75	79
531	9446	60.82	80
532	13201	29.68	79
533	9774	28.9	79
534	13299	15.23	78
535	13324	12.79	77
536	10448	13.68	76

537	10123	37.04	77
538	10290	40.78	77
539	13329	19.07	77
540	13376	13.49	76
541	9730	8.31	74
542	13188	20.17	74
543	9608	26.77	74
544	9574	10.21	75
545	13203	10.88	75
546	9257	28.3	76
547	13250	26.88	74
548	10436	35.26	73
549	13334	17.88	73
550	13271	20.78	74
551	10705	41.77	73
552	10811	48.49	72
553	11082	28.61	72
554	13424	42.58	72
555	13369	48.47	72
556	13444	32.069	71
557	11243	43.12	71
558	13478	28.67	70
559	13489	27.14	69
560	13488	10.19	69
561	11291	15.648	70
562	11427	20.89	68
563	13460	22.76	69
564	13501	11.71	67
565	11338	10.61	68
566	13473	21.65	67
567	13458	42.57	68
568	13427	20.59	68
569	11471	8.06	66
570	13433	12.68	68
571	13421	59.65	68
572	10623	5.68	70
573	13323	12.16	70
574	13352	9.35	70
575	13355	26.698	71
576	11010	61.02	70
577	13385	51.397	70
578	11081	9.44	70
579	13435	33.26	69
580	13438	4.93	70
582	13403	7.03	70
583	13356	77.05	71
584	13328	10.46	71

585	10315	24.07	72
586	10245	23.19	71
587	10263	24.52	72
588	9778	17.99	73
589	13312	51.898	71
590	13261	28.73	71
591	13235	33.39	72
592	13262	44.44	74
593	13295	18.23	73
594	13301	38.74	72
595	13330	24.16	72
596	13315	26.82	72
597	13219	20.64	73
598	13227	19.46	73
599	9486	40.99	74
600	9455	56.03	74
601	13148	8.17	74
602	13103	60.16	75
603	9202	28.85	74
604	13076	57.82	76
605	9180	20.01	76
606	8900	26.71	75
607	13014	7.796	77
608	13019	13.49	77
609	8598	37.01	77
610	8253	7.85	78
611	12979	30.59	78
612	8121	31.12	78
613	12923	26.74	78
614	12921	8.08	78
615	12904	25.57	79
616	12814	13.98	79
617	7422	18.84	79
618	12845	27.02	79
619	12903	83.59	78
620	12745	11.51	80
621	12747	69.12	80
622	12722	10.17	80
623	12779	42.02	79
624	6858	18.896	78
625	6693	70.31	79
626	12669	12.68	79
627	12706	17.05	78
628	12770	24.87	77
629	12726	30.54	78
630	12778	41.71	78
631	7418	5.45	76

632	12844	61.27	76
633	12834	26.23	76
634	12858	30.15	75
635	12792	10.99	76
636	7771	7.84	75
637	12919	7.196	74
638	12891	14.31	75
639	7958	14.51	75
640	8272	44.4	74
641	13096	36.03	72
642	13081	16.38	71
643	9189	13.02	71
644	13109	17.31	71
645	13051	17.09	72
646	13169	42.17	70
647	9795	5.77	70
648	13186	28.25	71
649	9429	2.18	72
650	9116	34.11	72
651	9742	48.63	71
652	10111	13.37	69
653	13335	11.98	68
654	13305	33.38	68
655	13363	55.59	68
657	11060	6.78	67
658	13418	31.13	68
659	13426	21.69	67
660	10844	43.08	68
661	13353	6.48	69
662	13313	7.74	70
663	13255	9.53	71
664	10730	39.51	69
665	13374	7.81	68
666	11240	8.57	65
667	11104	19.98	66
668	11007	32.99	66
670	13475	54.597	64
671	13483	4.695	64
672	13498	17.89	63
673	13487	7.89	64
674	13465	11.02	65
675	11414	32.71	65
676	11403	58.7	66
677	11324	31.74	67
678	13432	27.68	66
679	13425	20.2	67
680	13480	42.17	65.5

681	9595	5.08	72
682	13135	7.47	73
683	13198	40.62	73
684	9157	18.73	73
685	13088	35.29	74
686	13042	23.64	75
687	13059	43.99	75
688	8169	47.88	76
689	12953	25.58	76
690	12884	13.096	77
691	12892	16.99	76
692	12840	32.87	77
693	12830	13.98	78
694	12932	50.85	76
695	13024	31.97	74
696	12949	37.27	75
697	8970	8.53	73
698	13037	45.32	73
699	12996	40.08	74
700	8297	22.98	74
701	8510	21.69	73
702	8824	24.08	73
703	13100	12.01	73
704	9396	58.08	72
705	9605	15.82	72
706	13247	38.63	70
707	12859	18.61	74
708	7605	6.23	74
709	12895	40.35	73
710	7292	15.5	75
711	12776	16.37	76
712	6877	21.32	76
713	6807	10.98	76
714	12699	18.78	77
715	12648	57.14	77
716	12513	16.02	79
717	12509	46.799	79
718	5024	6.21	80
719	5253	10.796	80
720	4929	23.76	81
721	12495	35.81	80
722	5746	7.89	80
723	5126	14.13	81
724	5455	23.31	81
725	12608	18.02	79
726	12660	29.42	78
727	6172	14.97	78

728	12633	34.19	78
729	6536	8.95	77
730	12593	22.08	80
731	5715	38.04	81
732	5312	26.88	81
733	5656	61.099	81
734	6264	25.54	80
735	12673	24.98	80
736	12602	13.89	82
737	5926	35.42	82
738	12545	35.439	82
739	4659	22.99	81
740	12360	20.11	82
741	4516	21.85	83
742	12304	20.37	82
743	4011	22.13	84
744	12186	48.54	84
745	4177	42.61	84
746	12254	30.84	85
747	4210	26.67	84
748	4302	9.93	84
749	12298	12.29	84
750	4534	15.13	84
751	4833	45.31	83
752	4546	57.01	83
753	12456	54.07	83
754	12411	14.038	83
755	12426	6.96	83
756	4673	14.27	84
757	4598	9.35	84
758	12322	5.48	85
759	12277	31.14	85
760	3874	46.91	86
761	12261	30.29	86
762	12215	8.43	85
763	3503	34.62	85
764	12136	4.69	85
765	3307	18.68	85
766	12100	33.71	86
767	3331	26.27	86
768	12085	31.12	87
769	2492	15.07	87
770	2453	32.56	88
771	2224	42.63	89
772	11927	38.16	89
773	11962	31.53	89
774	11862	26.52	89



775	2187	29.46	88
776	11887	52.32	88
777	11904	5.82	88
778	11899	34.1	88
780	11961	3.497	87
781	2684	4.73	87
782	2534	35.68	87
784	12013	6.05	86
785	12047	85.17	86
786	12069	25.52	86
787	11960	7.25	86
788	12058	54.94	86
789	3093	53.75	85
790	3252	18.04	85
791	3224	43.13	84
792	3237	30.55	84
793	12213	37.12	84
794	3900	49.37	83
795	3629	21.56	83
796	12232	17.68	82
797	12287	23.88	82
798	12122	17.71	84
799	3387	17.61	83
800	12102	40.25	84
801	3000	45.31	83
802	12083	12.01	85
803	12057	4.39	85
804	2566	15.26	85
805	2381	60.71	86
806	12034	43.11	85
807	2790	32.21	84
808	11907	2.48	86
809	11837	16.83	86
810	11843	5.37	87
812	11774	53.82	88
813	11705	49.98	89
814	11662	24.42	90
815	11702	10.45	89
817	747	19.464	89
818	11627	22.81	90
819	697	14.77	90
820	11612	18.43	91
821	11626	16.23	90
822	11630	11.23	90
823	777	9.599	90
824	990	34.42	90
825	11731	15.89	90

826	11728	17.81	90
827	11664	51.73	90
828	11651	4.71	91
829	11628	28.07	91
830	11618	13.29	91
831	11633	39.67	91
832	881	32.27	91
833	11757	36.66	90
834	11777	15.54	90
835	11716	19.21	90
836	11683	41.25	91
837	11654	4.72	89
838	11674	12.93	88
839	1135	33.47	87
840	1180	13.37	87
841	947	20.93	87
842	11655	15.32	87
843	705	47.02	88
844	1055	61.12	87
845	11726	177.2	87
846	1307	6.84	87
847	11856	23.72	86
848	11813	7.6	87
849	11799	18.94	87
850	11776	128.67	87
851	1095	30.54	88
852	700	4.69	89
853	569	2.53	89
855	575	39.58	89
856	11596	13.73	90
857	11595	18.42	90
858	11614	5.79	90
859	469	4.64	91
860	11584	8.49	91
861	11569	83.57	91
862	11567	69.72	91
863	11568	16.79	91
864	435	22.51	90
865	11573	1.73	90
867	11607	2.79	88
868	616	3.7	88
869	11605	36.75	89
870	11624	3.38	88
871	617	41.75	90
872	572	45.91	91
873	11592	39.91	91
874	11583	11.58	91

875	11572	76.41	92
876	11547	19.47	92
877	11561	17.18	92
878	11565	18.36	92
879	399	16.72	93
880	11564	42.21	92
881	11577	11.02	92
882	11581	15.16	92
883	11593	31.3	92
884	11599	60.32	92
885	525	34.59	92
886	523	15.81	91
887	581	43.4	91
888	11598	35.17	91
889	11603	70.55	91
890	11609	14.65	91
891	598	9.81	91
892	652	37.5	91
893	615	36.999	91
894	559	37.25	92
895	11608	21.36	92
896	442	45.67	93
897	483	39.33	92
898	11566	16.6	92
899	11571	32.55	92
900	353	39.14	93
901	11552	43.64	93
902	11546	96.16	93
903	264	29.02	93
904	11522	21.42	93
905	11512	11.1	94
906	11499	31.06	94
907	115	18.58	94
908	11491	34.05	94
909	170	68.21	93
910	36	38.13	94
911	11504	40.79	93
912	11511	3.42	93
913	11533	4.12	93
914	11545	8.27	93
915	206	16.88	93
916	11524	45.65	93
917	84	12.57	93
918	11540	49.82	92
919	11535	37.4	92
920	370	4.15	91
921	11554	27.39	91

922	395	37.64	91
923	282	21.92	91
924	255	26.91	92
925	214	11.59	92
926	11534	4.43	91
927	151	18.54	92
928	11497	18.8	93
929	11507	92.44	92
930	11515	16.15	93
931	127	30.59	93
932	97	19.1	93
933	11482	22.27	93
934	189	17.4	92
935	11517	64.84	92
936	11549	9.15	91
938	11538	15.8	91
939	11556	49.83	89
940	393	48.66	89
941	11575	22.74	90
942	11574	43.28	90
943	11509	13.96	91
944	11516	137.14	91
945	146	22.28	91
946	11500	46.53	91
947	134	14.93	92
948	11486	10.25	92
949	11501	9.34	90
950	11526	14.03	90
951	2046	31.49	87
952	1992	12.83	87
953	11760	45.91	89
954	11785	24.97	89
955	1582	27.84	89
956	11826	14.47	89
957	1655	60.82	89
958	11850	93.49	89
959	11884	71.87	89
960	11792	33.04	90
961	11805	71.799	88
962	11784	31.94	89
963	1244	21.93	89
964	11800	108.93	87
965	1337	16.08	87
966	11713	35.66	87
967	1293	27.31	88
968	12066	17.27	87
969	3256	24.88	87

970	12123	46.86	87
971	3727	30.93	86
972	12210	9.23	86
973	3574	7.2	87
974	3340	35.36	87
975	12349	15.9	84
976	12383	5.69	84
977	12412	39.56	84
978	12414	31.34	84
979	12405	65.79	84
980	5368	9.36	84
981	12493	44.73	83
982	5480	6.94	84
983	5130	8.84	84
984	6186	23.73	83
985	5975	6.09	83
986	12581	17.85	84
987	6141	20.17	83
988	12662	4.51	83
989	6392	31.91	82
990	6005	5.6	84
991	12528	7.01	84
992	5559	22.18	85
993	6176	33.67	84
994	6401	33.25	83
995	5331	34.11	84
996	12485	7.49	84
997	12546	47.7	83
998	6733	47.03	82
999	12712	31.04	82
1000	6818	7.73	82

z axis length (mic	axis length (mic	Aspect ratio	Euler angle 1 (radial	angle 2 (radia
444.93	90.08	4.94	2.554	2.130
356.80	147.29	2.42	0.602	1.724
277.39	224.68	1.24	3.023	1.653
286.57	101.03	2.84	0.264	1.845
128.68	67.55	1.91	2.465	0.820
129.63	48.33	2.68	0.559	2.221
312.14	126.66	2.46	0.083	1.951
194.07	104.42	1.86	0.228	1.362
218.35	81.35	2.68	2.878	2.547
148.68	78.96	1.88	2.067	0.312
146.72	98.69	1.49	2.878	1.817
296.51	108.45	2.73	2.532	1.506
174.07	72.82	2.39	3.070	2.049
196.98	95.38	2.07	0.437	1.977
155.04	92.11	1.68	0.409	1.823
298.55	93.87	3.18	2.658	0.312
189.26	104.75	1.81	0.786	1.333
182.93	88.76	2.06	2.994	2.330
217.39	85.26	2.55	2.352	2.409
141.02	124.89	1.13	0.253	1.433
150.72	116.45	1.29	0.680	2.250
118.56	49.70	2.39	0.125	2.466
209.51	74.74	2.80	0.324	2.788
146.25	132.31	1.11	6.242	1.731
281.70	69.67	4.04	0.202	0.924
118.94	68.07	1.75	0.324	1.280
154.67	45.01	3.44	2.978	2.250
147.80	53.96	2.74	0.851	1.708
218.31	119.10	1.83	2.138	1.319
220.16	65.55	3.36	1.096	2.757
247.18	113.68	2.17	0.179	2.367
395.85	125.12	3.16	2.765	1.869
129.83	52.34	2.48	2.651	1.757
199.80	87.46	2.29	0.591	1.475
248.39	123.47	2.01	2.743	1.934
420.76	130.83	3.22	6.084	2.261
302.94	46.40	6.53	2.448	2.197
169.35	49.20	3.44	2.622	1.914
227.16	154.29	1.47	1.767	1.425
171.50	71.50	2.40	0.226	2.457
148.71	52.05	2.86	1.077	0.358
220.72	65.60	3.37	2.613	0.870
169.22	89.44	1.89	2.782	1.649
211.84	90.40	2.34	2.162	1.263

162.01	50.70	3.20	1.961	2.342
324.91	119.90	2.71	0.204	1.165
99.63	40.71	2.45	3.389	2.440
231.88	69.12	3.36	2.772	1.047
176.06	73.65	2.39	2.580	1.979
200.69	62.01	3.24	6.224	2.191
119.58	46.97	2.55	2.335	1.511
290.63	79.05	3.68	0.372	1.572
218.97	92.61	2.37	0.018	2.496
89.71	36.00	2.49	2.167	1.436
91.34	71.29	1.28	3.239	2.146
346.01	104.26	3.32	2.048	1.322
226.17	68.75	3.29	0.212	2.425
236.78	121.31	1.95	2.858	1.344
348.05	120.76	2.88	0.675	1.752
425.61	103.02	4.13	1.231	1.962
130.24	59.15	2.20	2.960	2.335
284.57	51.27	5.55	0.827	0.839
118.79	80.81	1.47	3.006	1.436
210.62	82.75	2.55	2.057	1.565
363.95	145.57	2.50	2.857	1.770
283.66	86.17	3.29	2.641	1.481
365.55	147.06	2.49	3.892	3.001
225.66	96.85	2.33	2.553	1.050
195.80	117.41	1.67	3.152	1.621
123.23	56.66	2.18	0.278	1.233
178.82	60.53	2.95	2.686	1.711
252.51	62.12	4.07	2.430	1.871
338.57	100.04	3.38	2.398	1.240
204.07	118.41	1.72	6.027	2.670
173.99	104.55	1.66	0.626	0.911
226.66	57.03	3.97	0.971	1.545
90.13	41.55	2.17	0.442	2.243
276.60	78.56	3.52	2.943	2.181
129.98	96.71	1.34	3.055	1.329
87.06	73.26	1.19	2.934	1.503
207.14	63.83	3.25	0.547	1.569
135.30	59.69	2.27	2.819	1.622
169.50	74.38	2.28	0.837	1.355
224.81	149.17	1.51	1.795	1.536
171.34	98.25	1.74	0.818	2.292
114.35	59.25	1.93	1.724	1.792
321.47	60.36	5.33	2.676	0.499
208.88	36.40	5.74	0.312	0.981
151.95	81.34	1.87	0.112	1.607
139.00	60.46	2.30	3.117	2.148
144.63	49.79	2.91	3.277	1.891

133.48	86.86	1.54	0.060	1.333
129.10	71.72	1.80	2.212	1.101
475.59	177.78	2.68	0.637	2.003
155.43	100.97	1.54	2.906	1.858
337.11	103.21	3.27	0.316	1.698
189.15	55.25	3.42	0.916	2.613
183.48	74.54	2.46	0.558	1.305
333.08	67.57	4.93	0.377	2.323
278.62	95.15	2.93	0.910	1.376
168.81	42.51	3.97	0.309	1.283
244.84	116.27	2.11	2.616	2.040
196.73	74.82	2.63	2.516	2.015
247.63	105.59	2.35	2.874	1.503
166.71	98.95	1.69	0.206	1.298
183.27	70.27	2.61	3.176	2.579
93.45	66.74	1.40	2.738	1.542
170.17	46.58	3.65	6.247	2.824
87.78	61.54	1.43	1.949	1.845
73.50	58.44	1.26	0.259	2.032
116.80	70.36	1.66	2.814	2.242
107.85	59.18	1.82	2.749	1.954
82.01	61.67	1.33	0.584	1.418
175.38	54.07	3.24	6.209	2.199
107.17	45.15	2.37	0.252	1.541
103.37	43.28	2.39	1.275	2.680
88.07	74.22	1.19	0.209	1.517
193.41	76.71	2.52	0.060	1.219
127.38	55.32	2.30	2.815	1.453
122.31	42.34	2.89	2.937	2.487
166.41	72.30	2.30	1.918	2.448
143.28	79.17	1.81	0.070	1.607
236.78	144.50	1.64	3.002	1.104
211.45	107.38	1.97	0.704	2.208
114.15	49.56	2.30	0.407	1.147
200.24	74.98	2.67	2.695	1.654
163.54	58.30	2.81	2.152	2.546
304.11	123.80	2.46	3.160	2.138
221.61	74.59	2.97	0.530	1.448
149.48	108.14	1.38	2.163	2.476
139.10	53.40	2.61	2.854	0.440
170.92	77.98	2.19	0.079	2.280
161.34	60.31	2.68	0.450	1.548
249.45	135.13	1.85	1.562	1.721
161.87	50.09	3.23	0.270	1.053
165.91	83.92	1.98	2.803	1.130
218.18	101.37	2.15	0.259	1.492
209.30	71.21	2.94	1.648	1.225



164.45	95.88	1.72	3.073	1.666
190.46	141.03	1.35	2.495	2.393
158.24	47.20	3.35	0.564	2.846
166.46	79.12	2.10	0.294	2.435
136.68	67.63	2.02	0.143	2.316
138.08	48.13	2.87	2.713	2.638
225.29	62.74	3.59	3.156	1.855
203.28	128.42	1.58	3.033	1.771
152.60	108.37	1.41	2.826	1.013
205.64	84.91	2.42	3.503	2.794
287.77	66.93	4.30	3.027	2.184
222.61	91.55	2.43	1.375	0.787
123.81	49.49	2.50	0.684	1.945
166.75	47.49	3.51	0.308	2.579
173.15	79.15	2.19	2.017	1.930
250.51	64.51	3.88	2.036	2.302
208.28	62.69	3.32	2.809	0.979
186.44	58.43	3.19	0.500	1.800
252.92	76.43	3.31	1.970	2.856
142.66	114.84	1.24	1.402	1.885
220.83	46.70	4.73	0.296	1.308
287.01	188.72	1.52	3.107	1.627
257.64	153.87	1.67	2.889	1.777
360.71	121.72	2.96	0.434	1.924
294.61	111.32	2.65	1.448	2.834
211.36	51.15	4.13	3.178	2.375
211.82	80.45	2.63	2.841	2.431
193.61	74.95	2.58	2.794	2.325
139.86	95.50	1.47	1.959	1.096
245.91	54.89	4.48	0.607	1.903
150.37	80.44	1.87	1.882	2.646
181.16	89.54	2.02	0.163	2.806
187.03	86.86	2.15	0.173	2.697
140.29	60.48	2.32	0.500	1.330
211.78	139.40	1.52	0.288	1.408
263.05	109.37	2.41	2.397	0.339
204.81	100.12	2.05	0.408	1.734
453.99	84.96	5.34	1.283	0.977
259.16	89.13	2.91	2.571	1.065
118.68	61.41	1.93	2.203	1.796
525.51	71.46	7.35	2.422	1.845
287.57	71.91	4.00	2.644	1.059
257.07	100.00	2.57	1.581	0.321
110.20	91.05	1.21	2.174	1.832
379.19	155.03	2.45	0.387	2.328
260.52	72.79	3.58	0.811	2.499
284.11	148.49	1.91	1.244	1.650

278.61	53.02	5.26	3.164	1.894
184.89	92.48	2.00	2.679	0.860
154.34	60.88	2.54	2.199	2.176
94.65	70.50	1.34	0.429	1.727
315.73	204.55	1.54	0.895	1.719
276.38	139.45	1.98	0.202	1.045
112.09	79.23	1.42	2.690	1.202
127.79	76.48	1.67	2.172	2.843
222.68	89.34	2.49	2.689	1.492
274.03	49.81	5.50	0.757	2.414
271.71	92.97	2.92	2.452	1.672
277.62	143.52	1.93	1.129	1.570
154.75	72.91	2.12	0.766	2.574
247.02	107.85	2.29	3.059	1.419
216.80	59.59	3.64	0.323	2.357
153.78	104.64	1.47	0.022	1.770
247.50	76.25	3.25	2.849	2.241
276.67	64.04	4.32	6.060	2.773
159.04	112.95	1.41	3.150	1.449
144.89	108.55	1.34	0.115	1.906
251.69	190.20	1.32	0.557	2.244
305.07	89.40	3.41	3.037	2.420
364.71	123.81	2.95	2.862	2.315
256.61	136.87	1.88	2.929	1.284
182.40	105.73	1.73	0.580	0.724
430.67	80.40	5.36	6.237	2.126
368.70	78.82	4.68	2.924	1.209
184.12	105.67	1.74	2.574	2.188
340.86	125.06	2.73	2.572	1.449
153.61	52.68	2.92	0.513	2.007
278.13	103.01	2.70	5.358	2.972
263.27	87.20	3.02	0.121	1.661
256.65	109.72	2.34	0.489	1.634
178.64	83.87	2.13	0.194	1.218
254.46	156.99	1.62	2.982	1.219
385.39	147.45	2.61	2.457	1.573
209.91	113.11	1.86	6.190	2.045
74.72	54.13	1.38	2.779	1.610
378.11	125.29	3.02	2.831	1.110
190.08	56.73	3.35	3.280	2.150
281.09	88.88	3.16	6.046	2.624
108.53	71.24	1.52	0.634	1.507
196.15	47.85	4.10	2.855	0.889
144.62	72.77	1.99	2.901	2.256
199.19	79.40	2.51	2.728	1.609
152.97	119.21	1.28	1.454	1.294
65.69	41.09	1.60	2.878	1.439

138.62	81.76	1.70	0.235	1.556
187.19	82.20	2.28	2.090	0.628
205.37	71.13	2.89	1.937	1.112
211.04	65.32	3.23	2.964	2.451
198.82	80.94	2.46	0.694	1.349
334.88	123.14	2.72	0.796	1.220
157.00	76.06	2.06	2.845	1.691
309.90	133.06	2.33	0.502	2.371
255.08	118.31	2.16	2.685	2.200
151.19	69.42	2.18	3.067	1.306
201.50	99.01	2.04	0.575	1.231
204.78	63.05	3.25	0.187	1.613
213.69	126.81	1.69	3.045	1.176
110.76	48.48	2.29	3.170	2.151
115.51	36.73	3.15	3.197	2.383
182.22	37.09	4.91	0.896	2.794
169.99	59.17	2.87	0.440	1.291
103.30	31.93	3.24	2.450	2.806
114.54	97.05	1.18	2.309	2.292
223.86	141.49	1.58	0.463	2.637
192.41	89.80	2.14	3.038	1.658
301.65	102.15	2.95	0.652	1.358
123.10	103.96	1.18	2.042	0.327
286.34	163.12	1.76	1.861	2.383
132.41	85.97	1.54	1.593	1.180
254.15	101.35	2.51	0.439	1.167
127.52	103.57	1.23	1.163	1.958
233.11	119.08	1.96	2.478	1.456
302.20	81.39	3.71	2.986	2.268
206.03	129.99	1.59	0.310	1.365
228.53	146.60	1.56	0.263	1.448
160.30	102.06	1.57	2.625	2.051
238.52	131.67	1.81	2.786	1.372
220.05	90.46	2.43	1.344	2.096
177.54	107.16	1.66	2.787	0.891
250.16	112.36	2.23	0.227	1.460
211.95	132.54	1.60	2.173	1.645
256.81	162.19	1.58	0.409	1.514
228.58	172.62	1.32	1.607	1.334
222.25	123.57	1.80	0.164	1.410
243.34	72.37	3.36	6.249	2.751
201.99	115.34	1.75	0.042	1.157
179.39	66.87	2.68	2.276	1.863
217.90	95.55	2.28	1.962	2.196
233.11	160.73	1.45	1.552	1.463
171.69	68.83	2.50	6.192	2.325
312.31	98.46	3.17	0.369	1.003

208.14	91.10	2.29	3.213	2.383
410.50	80.75	5.08	0.227	0.804
497.52	113.78	4.37	3.229	2.935
209.98	125.17	1.68	2.437	2.254
158.92	67.27	2.36	0.447	0.936
273.75	66.92	4.09	0.156	2.292
86.40	74.81	1.16	2.143	0.682
155.01	107.21	1.45	2.146	2.612
120.83	67.78	1.78	1.927	1.512
197.55	71.20	2.77	2.962	1.348
166.51	51.47	3.24	0.240	2.698
108.44	52.77	2.06	1.735	1.040
142.58	101.10	1.41	2.922	1.546
148.23	102.71	1.44	3.169	1.660
180.71	37.43	4.83	2.864	1.876
205.87	52.75	3.90	2.430	2.598
180.93	74.54	2.43	1.749	2.273
194.08	94.94	2.04	2.259	1.097
338.97	119.13	2.85	3.248	1.928
212.05	88.67	2.39	1.001	1.899
254.47	93.16	2.73	3.216	1.284
176.81	62.23	2.84	2.665	2.436
252.08	143.78	1.75	0.177	2.928
277.93	112.31	2.48	1.234	1.274
272.74	84.78	3.22	3.295	2.617
177.60	83.47	2.13	2.862	1.199
199.20	78.32	2.54	2.575	1.728
159.26	52.65	3.03	3.026	2.510
304.92	232.45	1.31	2.655	2.125
354.01	63.05	5.62	6.267	2.558
342.03	214.60	1.59	0.445	2.673
267.62	100.45	2.66	3.100	2.151
291.65	97.47	2.99	0.438	0.783
137.33	95.70	1.44	2.646	1.599
208.60	86.62	2.41	0.289	1.900
79.12	29.14	2.72	0.225	1.986
115.43	41.57	2.78	0.762	0.494
76.48	46.95	1.63	6.253	1.747
402.16	76.64	5.25	0.178	2.896
229.62	56.62	4.06	2.597	2.087
159.38	127.00	1.26	2.943	0.990
177.42	132.50	1.34	0.748	2.640
179.77	62.28	2.89	1.957	0.384
258.78	78.78	3.29	2.876	0.814
182.24	84.48	2.16	2.779	1.519
112.03	55.96	2.00	2.660	1.729
326.25	120.98	2.70	0.432	1.766

440.60	116.23	3.79	0.189	1.518
123.96	51.06	2.43	2.754	3.079
134.12	45.59	2.94	2.391	1.546
155.63	99.86	1.56	1.785	0.904
292.09	185.08	1.58	2.925	1.268
352.68	138.14	2.55	2.666	2.644
242.52	62.37	3.89	0.874	1.405
195.41	74.26	2.63	2.654	1.543
201.61	89.15	2.26	0.466	2.016
188.07	95.27	1.97	0.506	1.691
109.85	72.24	1.52	0.255	0.829
214.34	66.84	3.21	3.473	2.655
223.15	68.65	3.25	2.551	1.110
161.30	65.25	2.47	2.194	1.472
118.24	90.47	1.31	0.744	2.010
118.05	52.58	2.25	2.735	0.770
150.14	102.45	1.47	2.872	1.404
230.09	76.43	3.01	1.278	2.888
406.59	179.36	2.27	2.607	1.920
165.79	135.17	1.23	2.336	2.945
193.90	148.06	1.31	2.433	1.599
213.16	53.62	3.98	2.844	0.531
159.83	129.64	1.23	1.415	0.880
145.87	90.36	1.61	2.836	1.667
337.47	110.89	3.04	2.973	1.587
196.69	66.13	2.97	2.895	2.116
212.48	127.12	1.67	0.891	1.481
266.46	143.81	1.85	3.116	1.893
219.08	81.64	2.68	1.706	0.327
256.19	66.93	3.83	1.891	1.714
168.20	64.72	2.60	1.034	1.369
216.50	46.86	4.62	0.804	1.999
180.19	44.34	4.06	1.267	2.385
234.64	111.85	2.10	0.111	1.263
162.85	47.99	3.39	2.322	1.780
194.72	150.08	1.30	0.092	1.974
168.72	101.69	1.66	0.130	2.275
214.88	40.05	5.37	1.994	1.781
159.40	83.71	1.90	0.331	2.578
320.91	137.52	2.33	1.280	1.438
176.02	91.76	1.92	0.462	1.777
212.13	52.68	4.03	2.392	3.004
101.49	67.50	1.50	0.442	1.383
239.88	98.59	2.43	0.172	1.435
280.86	205.87	1.36	0.013	1.271
135.80	93.50	1.45	0.228	1.508
138.20	82.94	1.67	2.145	1.856

227.08	102.91	2.21	0.692	1.736
123.75	50.56	2.45	0.317	1.375
97.16	65.60	1.48	2.663	0.973
237.92	75.96	3.13	3.267	1.913
371.28	90.43	4.11	2.444	2.879
213.27	81.25	2.63	0.167	1.633
188.84	155.17	1.22	0.975	2.237
208.33	88.90	2.34	2.214	1.862
155.06	56.71	2.73	2.670	0.730
114.61	40.73	2.81	0.842	1.838
154.12	128.65	1.20	2.448	2.022
183.06	98.69	1.86	2.880	2.123
190.42	49.32	3.86	2.754	1.098
235.15	96.04	2.45	0.311	2.945
136.40	121.40	1.12	0.023	1.568
189.10	138.40	1.37	1.889	1.987
123.18	67.80	1.82	0.525	2.031
153.22	58.93	2.60	2.020	2.138
344.39	152.70	2.26	6.275	1.852
161.84	90.10	1.80	0.002	2.797
130.51	59.91	2.18	3.140	1.453
152.31	38.63	3.94	2.622	1.876
337.53	48.27	6.99	0.419	1.577
238.43	75.80	3.15	2.689	1.615
279.88	72.41	3.87	0.882	2.344
325.28	64.80	5.02	2.622	2.244
187.88	77.23	2.43	0.500	2.223
294.31	153.09	1.92	1.300	1.839
244.51	118.34	2.07	1.079	1.373
188.82	58.37	3.24	1.820	1.157
142.76	58.55	2.44	1.544	1.755
186.07	57.80	3.22	2.933	2.753
211.36	99.69	2.12	1.163	1.268
267.54	98.34	2.72	0.546	0.569
333.64	128.38	2.60	0.600	2.883
169.43	92.02	1.84	0.668	1.802
215.13	132.49	1.62	2.547	0.534
115.48	78.40	1.47	0.108	1.476
223.42	123.55	1.81	2.623	1.384
92.79	41.67	2.23	2.426	2.018
277.03	101.35	2.73	0.330	3.010
242.46	84.65	2.86	3.006	2.379
129.06	106.01	1.22	2.926	1.509
221.83	126.45	1.75	1.016	0.224
195.44	90.81	2.15	3.034	1.661
322.49	57.28	5.63	2.560	1.961
110.26	42.57	2.59	0.690	0.310

290.68	97.30	2.99	2.436	1.114
137.10	81.95	1.67	1.403	2.542
174.03	105.60	1.65	3.130	1.678
358.70	75.38	4.76	3.271	2.308
217.03	58.75	3.69	0.309	1.269
275.39	96.32	2.86	2.630	2.474
194.71	59.36	3.28	6.198	2.682
304.74	65.99	4.62	2.749	1.497
328.98	111.18	2.96	2.870	1.566
221.76	62.57	3.54	2.458	1.558
240.93	58.46	4.12	2.502	0.570
229.53	156.94	1.46	3.529	2.622
271.25	73.84	3.67	0.358	2.593
143.29	60.11	2.38	0.647	2.573
115.77	34.89	3.32	1.078	0.558
118.91	70.11	1.70	2.489	1.072
196.87	52.73	3.73	1.822	0.233
171.63	63.90	2.69	2.380	0.769
214.13	181.18	1.18	2.698	1.857
214.91	53.19	4.04	0.658	1.645
146.04	42.55	3.43	2.478	1.340
175.85	39.46	4.46	0.064	1.795
186.88	83.28	2.24	0.890	1.737
246.31	38.13	6.46	0.386	1.690
219.02	51.79	4.23	0.070	1.227
346.03	148.56	2.33	0.364	1.548
206.04	84.35	2.44	2.103	1.609
78.17	54.72	1.43	2.739	1.513
224.13	72.35	3.10	0.949	1.302
134.93	38.24	3.53	0.463	1.610
274.85	121.45	2.26	3.041	2.928
87.47	50.32	1.74	2.023	0.285
218.10	99.86	2.18	2.140	1.991
144.46	87.53	1.65	2.894	1.015
156.26	82.95	1.88	0.841	1.365
140.11	37.30	3.76	1.057	0.554
116.10	32.10	3.62	2.500	2.289
326.88	54.75	5.97	0.511	2.486
145.29	69.92	2.08	2.866	1.991
159.65	59.35	2.69	2.599	1.990
181.69	57.09	3.18	1.791	1.423
131.07	90.18	1.45	0.167	1.924
222.87	109.24	2.04	0.063	1.334
202.59	93.37	2.17	3.197	2.032
216.91	80.78	2.69	2.854	1.859
395.95	73.16	5.41	3.302	2.716
154.69	62.17	2.49	2.595	2.177

255.67	72.28	3.54	2.646	1.061
204.54	73.84	2.77	3.195	1.739
432.52	67.25	6.43	0.311	1.702
336.74	105.39	3.20	0.721	1.900
169.47	63.64	2.66	2.623	2.470
195.92	60.63	3.23	2.866	0.865
203.39	77.62	2.62	2.355	1.666
199.70	73.31	2.72	6.235	1.521
400.44	105.93	3.78	5.477	2.944
131.97	59.56	2.22	0.331	1.560
177.82	81.90	2.17	2.366	2.047
302.42	126.31	2.39	0.001	1.875
126.21	77.11	1.64	1.721	2.003
150.62	77.76	1.94	0.870	0.387
157.92	67.49	2.34	2.879	0.797
141.64	41.02	3.45	2.171	1.252
86.51	65.04	1.33	1.436	2.181
101.11	36.86	2.74	2.476	0.587
103.07	81.27	1.27	2.659	1.636
132.48	74.43	1.78	0.359	1.798
310.80	66.79	4.65	1.316	0.496
214.56	38.08	5.63	0.984	2.700
203.47	64.45	3.16	2.580	1.633
131.26	44.96	2.92	0.279	1.792
172.43	46.35	3.72	0.067	2.342
355.56	45.04	7.90	2.742	0.728
193.91	63.55	3.05	2.805	2.183
126.74	51.20	2.48	0.833	1.739
218.43	68.87	3.17	0.323	1.115
100.21	66.73	1.50	3.048	1.489
127.56	57.58	2.22	0.354	1.064
145.54	56.92	2.56	1.239	1.597
70.83	31.84	2.23	3.843	2.901
103.32	82.29	1.26	5.497	3.006
265.72	103.04	2.58	3.397	2.636
83.23	53.71	1.55	3.192	2.385
140.64	80.91	1.74	0.449	1.543
133.29	57.29	2.33	2.887	2.140
91.82	52.78	1.74	2.554	1.615
235.85	81.95	2.88	0.098	1.932
154.91	57.96	2.67	2.655	1.905
158.39	119.08	1.33	2.851	1.527
74.51	43.05	1.73	3.058	1.588
293.37	42.40	6.92	2.802	0.967
225.54	66.38	3.40	1.265	1.232
67.77	35.03	1.94	1.344	1.649
319.12	77.75	4.10	0.362	0.976



225.64	51.98	4.34	1.256	2.941
100.28	45.44	2.21	0.400	1.495
148.84	78.54	1.90	0.323	1.729
174.69	79.67	2.19	2.023	1.047
241.44	77.67	3.11	2.525	0.962
128.90	57.11	2.26	3.151	1.895
84.63	41.88	2.02	2.437	1.677
189.15	64.35	2.94	2.388	0.644
251.27	57.77	4.35	2.993	2.163
129.77	60.79	2.14	2.748	2.097
239.56	70.02	3.42	2.760	2.343
113.23	90.57	1.25	1.634	0.479
223.67	72.33	3.09	0.167	2.902
359.72	84.50	4.26	1.254	3.005
113.72	43.78	2.60	2.616	2.035
180.54	62.14	2.91	2.210	0.629
119.67	36.92	3.24	0.192	0.810
100.51	36.20	2.78	0.394	1.817
185.78	95.27	1.95	1.556	1.684
192.28	118.15	1.63	0.989	2.145
230.25	124.03	1.86	0.985	2.117
186.45	86.61	2.15	2.052	1.348
95.73	52.60	1.82	2.543	1.719
278.14	91.12	3.05	0.794	0.828
143.77	52.60	2.73	2.617	1.678
252.07	104.50	2.41	1.277	2.807
228.36	90.21	2.53	2.834	0.723
230.76	62.63	3.69	0.168	0.900
144.41	116.69	1.24	3.116	1.381
92.92	59.21	1.57	2.298	2.349
178.07	85.36	2.09	2.928	1.269
151.31	79.60	1.90	2.211	2.280
96.34	52.04	1.85	2.797	1.067
140.22	51.34	2.73	0.596	2.409
164.08	119.02	1.38	2.078	2.142
101.15	54.22	1.87	1.609	2.012
261.20	89.94	2.90	2.771	2.130
120.91	63.68	1.90	2.622	1.252
191.98	72.13	2.66	2.151	0.504
106.48	60.12	1.77	2.506	1.846
160.51	67.29	2.39	1.878	2.127
177.41	71.46	2.48	2.579	1.563
147.62	58.26	2.53	2.354	1.535
103.01	62.68	1.64	0.053	1.833
142.77	39.23	3.64	0.007	2.224
142.10	112.20	1.27	2.828	2.178
81.76	54.37	1.50	1.758	2.066

162.96	60.58	2.69	2.729	1.649
102.74	33.31	3.09	0.954	2.321
150.94	127.31	1.19	2.726	1.874
158.68	88.18	1.80	0.568	1.190
102.18	61.90	1.65	3.045	2.495
98.99	67.59	1.47	6.259	1.686
163.33	63.82	2.56	2.822	0.920
166.12	82.81	2.01	0.380	0.985
178.62	75.40	2.37	1.937	1.548
142.36	78.12	1.82	1.897	1.641
162.26	76.89	2.11	1.231	1.950
110.13	64.55	1.71	1.741	0.697
101.85	32.31	3.15	3.259	2.670
79.20	35.89	2.21	3.069	1.854
105.15	80.73	1.30	0.516	1.087
73.24	32.34	2.27	0.536	1.331
301.33	53.42	5.64	0.913	2.161
213.96	105.48	2.03	0.799	0.637
124.05	50.34	2.46	2.365	0.854
247.37	126.06	1.96	2.559	1.773
192.83	70.46	2.74	2.762	1.836
275.92	98.36	2.81	0.652	2.270
131.90	47.41	2.78	0.458	2.646
150.50	96.47	1.56	3.015	0.955
170.90	45.48	3.76	1.822	0.327
176.33	51.66	3.41	2.728	2.176
284.17	99.47	2.86	3.742	2.776
237.30	81.35	2.92	2.134	1.005
104.04	69.03	1.51	0.653	1.448
82.07	39.53	2.08	2.866	1.746
109.72	88.05	1.25	0.683	1.894
139.45	101.59	1.37	0.244	1.746
96.51	72.45	1.33	1.535	0.562
183.42	143.35	1.28	6.248	1.650
143.23	77.16	1.86	2.523	1.941
223.97	94.15	2.38	2.524	1.707
160.38	112.40	1.43	0.065	1.552
203.36	82.95	2.45	1.249	0.349
147.38	102.04	1.44	2.977	1.872
195.13	89.82	2.17	0.881	0.385
220.65	74.28	2.97	0.427	1.280
353.35	100.04	3.53	2.353	2.416
192.18	67.57	2.84	2.654	1.186
236.41	115.33	2.05	0.423	1.508
154.94	75.94	2.04	1.701	1.951
199.73	88.02	2.27	3.049	2.009
245.39	83.68	2.93	1.277	2.723

126.32	48.46	2.61	2.231	1.560
103.21	81.81	1.26	2.709	1.456
153.65	81.55	1.88	0.121	1.342
161.21	46.56	3.46	2.989	2.279
209.69	54.23	3.87	0.479	1.689
71.52	25.76	2.78	3.226	2.204
100.65	52.00	1.94	0.978	1.784
106.52	43.44	2.45	6.169	1.748
207.01	61.86	3.35	2.448	0.939
289.78	131.14	2.21	0.909	1.420
156.37	74.71	2.09	0.463	2.698
133.51	60.75	2.20	2.563	2.519
127.99	71.99	1.78	0.102	2.049
173.05	71.86	2.41	0.088	1.592
175.23	70.19	2.50	0.141	2.734
124.12	46.32	2.68	0.340	1.192
148.08	80.99	1.83	0.108	1.814
193.71	86.45	2.24	2.817	1.340
176.57	39.50	4.47	0.944	0.539
132.85	76.42	1.74	0.528	1.327
244.72	53.46	4.58	0.483	2.204
205.86	116.78	1.76	2.952	1.533
180.58	99.63	1.81	3.202	2.198
104.50	40.95	2.55	0.366	1.796
315.02	81.14	3.88	2.873	0.498
113.72	73.56	1.55	0.161	1.596
128.16	66.27	1.93	2.734	1.047
79.55	29.27	2.72	2.183	2.905
136.40	45.49	3.00	6.148	2.406
131.71	77.45	1.70	2.954	1.316
177.19	67.31	2.63	0.954	2.830
110.31	64.10	1.72	0.086	1.897
108.64	41.64	2.61	0.154	2.655
168.67	62.86	2.68	2.498	2.895
105.02	56.47	1.86	2.559	1.669
105.76	54.27	1.95	1.006	2.646
177.25	99.81	1.78	0.356	1.434
143.73	67.69	2.12	0.276	0.995
120.76	86.34	1.40	3.507	2.626
98.37	51.98	1.89	5.861	3.081
194.51	81.78	2.38	3.480	3.104
170.45	87.75	1.94	3.037	1.819
168.84	67.58	2.50	2.564	1.319
113.30	96.58	1.17	3.005	2.218
189.75	49.93	3.80	1.082	0.851
138.86	43.32	3.21	2.446	1.551
116.60	41.30	2.82	0.183	1.120

76.21	69.41	1.10	1.631	1.561
116.88	64.61	1.81	2.195	1.477
232.73	146.96	1.58	2.408	1.185
251.78	99.93	2.52	3.115	2.586
113.93	85.45	1.33	0.527	1.450
227.27	187.59	1.21	0.062	1.520
176.96	97.68	1.81	0.354	1.417
213.37	110.75	1.93	6.038	2.594
308.33	82.82	3.72	0.169	1.188
189.03	59.86	3.16	2.387	0.924
199.95	89.19	2.24	0.475	2.047
173.03	64.63	2.68	3.153	1.520
102.35	72.22	1.42	6.058	2.465
144.03	85.93	1.68	0.878	1.666
216.01	131.81	1.64	0.091	1.584
123.80	92.24	1.34	3.035	1.648
309.35	69.02	4.48	0.377	2.773
159.70	61.00	2.62	2.808	2.045
88.19	84.66	1.04	1.692	1.141
148.25	48.93	3.03	1.493	0.478
115.51	51.78	2.23	4.905	3.045
143.98	69.49	2.07	2.056	2.702
136.03	43.17	3.15	3.256	2.207
129.81	73.67	1.76	0.456	1.541
183.04	40.66	4.50	1.426	0.430
86.52	67.03	1.29	0.517	1.639
92.64	57.49	1.61	2.897	2.379
266.82	87.89	3.04	2.744	1.707
54.53	29.62	1.84	0.097	1.778
279.36	34.36	8.13	2.806	2.775
313.71	59.66	5.26	2.820	2.142
272.70	91.91	2.97	0.350	1.998
287.04	94.78	3.03	2.500	1.971
131.41	95.08	1.38	0.119	1.665
212.46	90.47	2.35	1.102	1.419
423.96	124.03	3.42	3.299	2.934
257.79	132.59	1.94	2.872	0.852
125.19	46.31	2.70	0.347	0.624
100.20	59.93	1.67	2.654	1.883
155.42	31.92	4.87	2.823	2.096
149.34	78.80	1.90	3.101	1.375
212.21	57.97	3.66	2.587	0.893
268.09	59.73	4.49	0.437	2.593
92.14	59.84	1.54	4.389	3.006
423.19	97.64	4.33	2.464	2.306
104.80	78.78	1.33	6.225	1.884
177.15	61.47	2.88	0.698	1.499

307.43	68.50	4.49	0.906	1.123
193.80	50.27	3.86	1.513	0.616
232.38	106.96	2.17	2.820	1.833
169.50	51.55	3.29	2.627	2.316
236.48	150.43	1.57	1.978	2.556
134.52	54.20	2.48	1.427	2.574
74.61	60.69	1.23	6.110	2.386
153.33	64.86	2.36	1.689	1.727
245.37	79.99	3.07	0.485	1.294
155.64	53.25	2.92	1.189	0.673
218.97	48.89	4.48	0.620	1.769
256.43	59.80	4.29	2.989	2.188
244.55	111.06	2.20	2.048	1.837
213.00	79.27	2.69	2.746	1.158
438.66	156.33	2.81	1.753	2.855
172.38	58.77	2.93	1.916	2.226
160.44	79.97	2.01	5.877	3.027
221.66	62.23	3.56	0.375	1.333
119.60	56.32	2.12	6.195	1.713
178.77	57.53	3.11	2.480	0.564
202.17	85.48	2.37	2.861	1.704
53.15	44.36	1.20	2.932	1.684
136.37	63.43	2.15	2.594	1.697
124.73	106.35	1.17	2.918	1.250
226.45	167.47	1.35	2.636	1.343
173.92	142.74	1.22	0.110	1.520
132.08	100.82	1.31	3.191	1.697
128.01	87.77	1.46	3.015	1.319
127.46	55.94	2.28	2.761	1.717
128.78	56.35	2.29	1.927	2.034
180.88	111.67	1.62	2.778	1.411
189.86	87.90	2.16	1.166	1.902
194.50	52.05	3.74	0.418	1.086
105.02	29.17	3.60	0.410	1.980
323.23	110.43	2.93	2.532	1.092
233.45	51.89	4.50	2.959	2.540
262.98	68.49	3.84	2.690	2.363
228.08	69.81	3.27	0.192	2.079
160.96	74.35	2.17	0.401	1.725
103.55	53.88	1.92	2.673	1.850
302.99	181.83	1.67	3.027	1.755
252.85	78.99	3.20	2.459	1.951
261.50	84.12	3.11	2.845	2.319
233.61	59.71	3.91	0.428	0.570
140.90	58.51	2.41	2.959	2.638
199.45	54.78	3.64	0.218	0.964
368.20	98.10	3.75	0.353	1.091

204.36	54.40	3.76	0.383	2.071
141.08	48.59	2.90	2.584	2.343
141.34	114.51	1.23	3.032	1.317
139.55	78.40	1.78	3.139	1.729
360.22	121.78	2.96	0.292	2.399
174.93	36.98	4.73	0.300	0.924
114.36	34.14	3.35	0.409	1.092
199.78	70.86	2.82	0.589	2.228
358.45	77.67	4.62	0.972	1.211
186.21	87.31	2.13	2.679	1.326
244.51	113.29	2.16	2.623	1.963
265.20	86.12	3.08	2.404	1.489
92.36	52.63	1.76	2.443	1.275
101.88	30.67	3.32	2.727	0.791
114.43	31.02	3.69	2.495	1.543
95.97	44.59	2.15	2.157	2.229
372.77	133.42	2.79	0.194	1.137
220.72	46.90	4.71	0.109	1.866
293.33	68.04	4.31	0.214	1.338
197.17	81.95	2.41	2.383	1.055
120.56	37.06	3.25	0.268	1.213
188.46	73.07	2.58	0.421	1.446
231.53	79.67	2.91	0.836	2.984
156.07	37.22	4.19	2.452	1.582
430.39	90.62	4.75	0.711	2.264
242.60	89.92	2.70	0.146	1.555
172.90	84.50	2.05	0.232	0.900
162.04	44.74	3.62	0.231	1.481
161.31	60.96	2.65	2.320	1.200
193.23	85.59	2.26	2.581	1.936
133.69	79.19	1.69	2.506	1.919
212.53	83.96	2.53	6.035	2.504
192.66	66.78	2.89	1.488	1.525
198.86	106.24	1.87	0.093	2.300
224.28	97.82	2.29	1.636	1.797
127.76	84.51	1.51	0.852	2.020
165.95	68.16	2.44	0.489	1.439
610.53	157.99	3.86	6.148	2.474
146.05	32.51	4.49	2.614	0.680
229.32	71.15	3.22	0.424	0.941
138.15	63.27	2.18	1.309	1.497
160.76	78.23	2.06	1.286	1.540
159.83	56.92	2.81	0.380	2.170
194.11	63.87	3.04	2.957	2.359
86.10	58.70	1.47	2.866	1.873
187.38	83.74	2.24	1.495	2.849
224.27	97.28	2.31	0.142	1.797

146.13	73.29	1.99	2.943	2.081
103.04	68.31	1.51	3.641	2.825
199.90	96.10	2.08	2.570	2.361
230.61	110.29	2.09	2.610	1.314
207.54	71.30	2.91	0.009	2.072
333.69	88.13	3.79	2.591	0.871
139.40	109.30	1.28	0.378	2.201
224.32	102.23	2.19	0.719	0.825
175.81	96.18	1.83	6.268	2.499
124.94	83.19	1.50	3.213	2.049
146.80	50.84	2.89	0.581	1.906
167.24	82.70	2.02	1.996	1.085
182.50	107.25	1.70	1.781	1.482
330.99	73.44	4.51	2.527	1.535
145.56	76.52	1.90	3.063	1.614
120.83	96.75	1.25	1.361	1.187
227.34	146.43	1.55	2.153	1.416
224.01	91.09	2.46	1.686	0.743
223.33	158.56	1.41	2.452	1.466
125.49	104.20	1.20	0.229	1.484
286.81	148.46	1.93	1.172	1.037
526.59	130.46	4.04	0.401	1.167
117.79	61.07	1.93	0.072	1.305
85.89	54.00	1.59	0.449	0.829
115.17	89.15	1.29	1.238	1.330
146.22	61.10	2.39	2.963	0.903
358.25	83.28	4.30	0.360	2.121
310.49	124.67	2.49	3.490	2.110
135.77	51.59	2.63	3.568	2.935
101.11	62.40	1.62	0.544	1.879
124.74	109.29	1.14	2.724	1.818
276.90	226.77	1.22	0.012	1.928
150.10	59.20	2.54	3.265	2.178
261.98	105.80	2.48	0.399	1.097
231.82	97.30	2.38	0.490	1.503
323.78	76.77	4.22	2.276	2.054
83.77	39.52	2.12	0.238	1.742
183.46	106.91	1.72	2.885	1.970
144.09	85.89	1.68	1.171	2.535
291.18	125.73	2.32	0.041	1.841
188.30	69.71	2.70	0.601	1.804
75.82	59.55	1.27	2.023	1.578
120.85	72.75	1.66	0.296	1.914
154.91	78.28	1.98	1.119	0.729
221.54	83.96	2.64	0.506	1.900
118.91	30.93	3.85	3.080	1.586
201.24	68.65	2.93	6.266	2.021

308.95	85.37	3.62	0.757	1.735
260.30	113.69	2.29	3.022	1.511
167.82	63.51	2.64	0.431	0.856
202.92	40.04	5.07	5.960	2.712
227.71	68.97	3.30	2.374	0.997
181.68	57.17	3.18	1.694	3.032
310.16	57.48	5.40	0.318	0.685
206.22	45.91	4.49	0.600	0.829
212.51	79.00	2.69	0.853	1.667
116.22	79.00	1.47	0.417	2.143
135.67	78.54	1.73	0.042	2.028
202.63	85.70	2.36	0.543	0.384
98.74	57.16	1.73	2.728	1.804
90.86	58.69	1.55	0.220	1.228
114.99	55.73	2.06	0.428	1.715
103.72	58.76	1.77	0.202	1.387
71.94	36.55	1.97	1.382	1.614
160.48	90.75	1.77	1.665	0.695
165.28	55.89	2.96	3.138	1.415
118.56	37.51	3.16	0.714	0.721
159.65	70.87	2.25	2.631	1.274
280.61	145.37	1.93	2.670	1.866
183.04	50.10	3.65	1.686	1.008
119.06	34.70	3.43	2.553	1.476
79.82	43.55	1.83	0.320	2.411
68.03	41.43	1.64	1.420	1.539
105.30	38.74	2.72	0.213	0.892
262.95	126.84	2.07	0.526	1.753
279.05	111.58	2.50	2.961	2.151
252.06	56.63	4.45	1.894	1.547
341.28	78.61	4.34	2.646	2.317
96.88	47.07	2.06	2.998	1.913
110.56	31.49	3.51	2.505	1.927
136.76	95.45	1.43	0.642	1.564
287.73	222.17	1.30	0.277	1.270
160.08	58.46	2.74	2.781	1.758
106.25	75.76	1.40	0.147	1.467
128.27	61.26	2.09	3.223	2.004
208.07	94.51	2.20	0.415	1.158
285.53	130.87	2.18	3.124	1.900
128.56	111.53	1.15	1.892	0.997
133.94	93.11	1.44	1.640	0.923
195.06	129.88	1.50	0.136	1.889
139.75	84.09	1.66	2.416	0.769
216.14	108.53	1.99	2.536	2.341
208.69	81.70	2.55	2.656	1.075
286.92	151.16	1.90	1.328	2.532



172.63	132.15	1.31	1.948	2.952
306.42	107.03	2.86	0.117	2.453
159.79	95.75	1.67	0.913	2.234
137.15	57.74	2.38	2.927	0.714
250.63	130.62	1.92	2.662	1.073
256.80	73.24	3.51	2.433	1.834
415.20	114.07	3.64	2.129	1.889
184.15	89.63	2.06	2.878	1.566
171.83	89.98	1.91	2.900	1.446
128.73	40.21	3.20	0.341	2.635
258.14	107.43	2.40	2.755	1.764
238.54	53.84	4.43	2.753	1.917
242.45	131.33	1.85	2.872	1.470
192.46	130.74	1.47	2.936	1.559
257.40	92.28	2.79	0.368	0.795
167.69	104.99	1.60	0.482	1.086
218.51	113.32	1.93	1.127	2.797
152.03	39.97	3.80	0.273	2.416
209.60	73.24	2.86	2.734	1.133
158.80	35.68	4.45	2.646	1.434
121.15	67.67	1.79	2.821	0.936
133.78	60.80	2.20	0.887	1.388
101.11	25.69	3.94	0.498	0.869
167.44	102.54	1.63	2.871	1.878
379.54	109.86	3.46	1.803	2.810
392.19	103.27	3.80	1.015	1.473
133.45	64.36	2.07	0.131	2.218
139.48	39.85	3.50	3.100	2.489
191.87	56.81	3.38	0.239	1.243
102.12	45.34	2.25	2.853	1.223
108.82	59.55	1.83	1.492	1.077
96.38	58.92	1.64	1.575	0.503
65.62	42.46	1.55	2.776	2.138
160.24	47.85	3.35	2.485	2.113
188.60	30.12	6.26	0.194	2.109
135.53	40.50	3.35	2.936	2.183
122.66	63.05	1.95	2.698	1.677
156.17	77.56	2.01	2.999	2.081
178.44	93.66	1.91	0.346	1.210
147.44	80.60	1.83	0.111	1.606
262.97	57.83	4.55	0.114	1.053
109.38	52.64	2.08	0.397	1.252
189.65	48.30	3.93	1.782	1.637
182.46	60.15	3.03	1.193	1.402
245.80	38.89	6.32	2.753	0.790
111.82	60.53	1.85	1.642	0.506
85.26	57.04	1.50	3.095	1.142

81.74	40.41	2.02	1.233	1.455
125.53	63.40	1.98	2.063	2.554
103.56	35.57	2.91	0.362	2.444
71.90	53.00	1.36	2.467	1.609
92.40	55.38	1.67	2.802	0.840
128.86	25.05	5.15	3.502	2.868
145.13	55.96	2.59	0.127	2.153
114.82	44.06	2.61	0.413	1.472
158.01	48.49	3.26	3.131	1.536
187.50	64.64	2.90	0.437	2.126
143.09	60.68	2.36	1.160	2.055
137.86	104.76	1.32	1.720	1.712
112.59	57.65	1.95	0.046	2.804
80.00	45.54	1.76	3.036	1.185
208.66	125.32	1.67	2.972	1.638
116.70	61.38	1.90	3.253	2.725
130.88	74.58	1.76	3.198	2.189
144.00	40.40	3.57	0.808	2.865
231.29	64.59	3.58	2.926	1.016
154.46	62.79	2.46	1.151	2.503
314.07	79.49	3.95	2.909	1.921
398.18	94.45	4.22	2.526	2.626
171.68	50.23	3.42	2.759	1.739
277.25	91.31	3.04	1.813	2.595
337.24	73.65	4.58	2.938	1.851
114.28	44.77	2.55	0.380	0.797
102.81	69.56	1.48	0.100	1.519
127.96	74.53	1.72	1.524	1.960
116.71	62.50	1.87	2.743	1.889
121.67	75.70	1.61	2.694	2.437
137.22	51.01	2.69	3.439	2.219

ler angle 3 (radia Active slip system (estimated from distribution of misorientaiton axes)

4.617	r <a>
3.607	basal <a>
3.685	prism <a>
4.489	prism <a>
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5.462	indeterminate
3.535	indeterminate
3.988	indeterminate
5.295	indeterminate
3.548	pi' <a>
4.243	indeterminate
3.949	indeterminate
4.266	r <a>
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4.349 prism <c>  
3.732 indeterminate  
4.679 basal <a>  
4.025 prism <a>  
3.655 basal <a>  
3.994 indeterminate  
5.095 indeterminate  
3.622 prism <c>  
3.568 indeterminate  
4.107 indeterminate  
4.691 basal <a>  
5.116 z <a>  
4.063 basal <a>  
4.627 indeterminate  
4.107 indeterminate  
3.847 prism <c>  
4.671 z <a>  
3.377 indeterminate  
4.346 prism <c>  
3.919 indeterminate  
4.214 indeterminate  
4.449 indeterminate  
4.699 indeterminate  
5.234 prism <a>  
3.429 indeterminate  
3.969 indeterminate

3.914 indeterminate  
4.345 prism <a>  
3.935 indeterminate  
5.369 indeterminate  
3.477 indeterminate  
5.187 indeterminate  
3.043 prism <a>  
4.477 indeterminate  
3.803 prism <c>  
3.588 prism <a>  
4.528 indeterminate  
3.523 prism <a>  
3.816 indeterminate  
5.200 z <a>  
4.928 indeterminate  
4.439 indeterminate  
4.518 prism <a>  
4.967 indeterminate  
3.665 prism <a>  
3.278 indeterminate  
5.384 basal <a>  
4.664 pi' <a>  
4.820 indeterminate  
4.332 prism <a>  
4.797 basal <a>  
3.921 basal <a>  
4.079 indeterminate  
4.339 indeterminate  
5.200 indeterminate  
5.198 prism <a>  
4.516 indeterminate