

APPENDIX C

Results of the AFTE Job Analysis Questionnaire

Task Item #	Frequency Rating			Importance Rating		
	N	Mean	s.d.	N	Mean	s.d.
1	199	1.76884422	0.90834191	196	2.464285714	1.19989316
2	199	1.86432161	0.88573625	196	2.602040816	1.18745404
3	199	1.81909548	0.89184701	196	2.505102041	1.20893023
4	199	1.61306533	0.82635267	196	2.352040816	1.22518274
5	199	1.86432161	0.82675184	197	2.725888325	1.15881266
6	199	1.5678392	0.78763862	194	2.149484536	1.17985015
7	199	1.81909548	0.89749212	197	2.827411168	1.23745126
8	199	1.88442211	0.68291454	197	2.725888325	1.02816949
9	199	1.4120603	0.560533	195	1.964102564	0.991585
10	199	4.11557789	1.23979004	198	3.611111111	0.73717652
11	199	3.05527638	1.38241474	199	3.105527638	1.09356224
12	199	4.19095477	1.1693556	199	3.537688442	0.8148475
13	199	4.51256281	0.86374389	199	3.814070352	0.48263064
14	198	3.27777778	1.43509709	197	3.065989848	0.99524926
15	199	4.30150754	0.97418588	198	3.52020202	0.70321666
16	199	4.3919598	0.80222901	197	3.659898477	0.55426545
17	198	4.34343434	0.84495056	198	3.666666667	0.59609559
18	199	2.77386935	0.92338891	198	2.742424242	0.85455969
19	199	1.28140704	0.53296013	197	1.629441624	0.83283766
20	199	3.35175879	1.16640015	199	3.115577889	0.82370716
21	199	2.55276382	0.81400612	198	3.202020202	0.79311502
22	199	2.08542714	0.83347798	197	2.299492386	0.88447479
23	198	3.20707071	1.39707835	196	2.612244898	0.96749906
24	199	3.1959799	1.18781011	199	2.537688442	0.88039057
25	199	4.32160804	0.89729415	198	3.722222222	0.56873813
26	199	4.1758794	0.88433111	199	3.487437186	0.65024701
27	199	4.04522613	0.94439592	198	3.429292929	0.70714304
28	199	3.91457286	1.07672281	198	3.474747475	0.80409402
29	199	4.37688442	0.81876252	199	3.91959799	0.29053736
30	199	4.20100503	0.8931835	199	3.804020101	0.47861745
31	199	2.46231156	0.8917901	199	2.798994975	0.92648952
32	199	2.45728643	0.96762475	199	2.894472362	0.98160845
33	199	2.2361809	0.75176391	199	2.798994975	0.94270136
34	199	2.39698492	0.89791619	199	3.296482412	0.98859031
35	198	2.35858586	0.88856356	197	3.020304569	1.02995636
36	198	2.36363636	0.87206559	199	2.874371859	1.00468422
37	199	2.26130653	0.86576894	199	3.055276382	1.06456222
38	198	2.47474747	0.81662217	196	3.147959184	0.87327613
39	199	1.17085427	0.60382181	194	1.654639175	0.95997848
40	199	1.12562814	0.36138969	194	1.608247423	0.87636438
41	199	1.17085427	0.47242633	193	1.590673575	0.81222179
42	199	2.84422111	1.30300905	198	3.085858586	0.96523426
43	199	2.76884422	1.32071077	198	2.348484848	0.93155224
44	199	1.5678392	1.1165291	193	1.849740933	1.07684553
45	199	4.25125628	0.96252295	197	3.715736041	0.58064539
46	198	4.12121212	1.04490766	196	3.709183673	0.62603133
47	199	4.20100503	1.03952155	196	3.102040816	0.85921605
48	199	4.43718593	0.80077243	199	3.743718593	0.52189267
49	198	4.57575758	0.72084143	198	3.651515152	0.62500577

50	199	4.46733668	0.80884532	198	3.691919192	0.56193588
51	199	4.33165829	0.7853152	197	3.538071066	0.62663853
52	199	4.74371859	0.65106614	199	3.698492462	0.60264379
53	199	2.9798995	1.04909677	199	3.005025126	0.81338231
54	199	3.05527638	1.33407547	198	3.267676768	0.86327535
55	199	3.65829146	0.82500021	198	3.232323232	0.71713308
56	199	2.08040201	0.36731051	199	2.974874372	0.8130078
57	199	2.81407035	0.68209645	199	3.728643216	0.49922533
58	198	2.59090909	0.67539662	197	3.14213198	0.81447462
59	198	2.54040404	1.31600219	195	2.882051282	1.04113137
60	197	4.83248731	0.56906691	198	3.828282828	0.44012929
61	197	4.13705584	1.23159821	195	3.502564103	0.85779842

Knowledge Item #	Expected @ Certification			Importance ratings		
	N	Mean	s.d.	N	Mean	s.d.
1	199	2.17085427	1.20644514	199	1.76884422	0.86271487
2	199	2.28140704	1.04987062	199	1.85427136	0.7679629
3	198	2.83838384	1.22335206	198	2.24747475	0.88091363
4	199	3.18090452	1.17526579	199	2.50753769	0.93132547
5	198	2.76262626	1.12616197	199	2.16080402	0.84940345
6	198	3.34848485	1.31170936	199	2.64321608	1.01421299
7	198	3.61616162	1.09643697	198	2.80808081	0.86882577
8	199	2.92964824	1.33146664	199	2.35175879	0.99842524
9	199	3.35678392	1.16269528	199	2.66331658	0.86585688
10	199	3.50251256	1.08187254	199	2.72864322	0.86849089
11	199	3.11055276	1.29405759	199	2.4321608	0.97139432
12	199	4.1959799	0.94643612	199	3.38190955	0.78165479
13	199	3.34170854	1.12088488	199	2.60301508	0.89227377
14	199	4.37688442	0.79370525	198	3.43434343	0.67833203
15	199	4.2160804	0.83396504	199	3.29648241	0.71600582
16	199	3.84924623	0.91419056	199	2.96984925	0.80346188
17	199	3.82914573	0.94865922	199	2.94974874	0.8087198
18	199	3.72864322	1.0233307	198	2.88383838	0.84998741
19	199	2.84422111	1.11048914	199	2.18592965	0.84721947
20	199	2.79396985	1.18609955	198	2.16666667	0.87113905
21	199	4.42713568	0.79357733	199	3.42713568	0.65402201
22	199	3.32663317	1.11864105	198	2.57575758	0.87944271
23	199	4.09547739	0.96186354	199	3.1758794	0.77474082
24	199	4.10050251	0.89326874	197	3.12690355	0.80757704
25	199	4.46231156	0.7767692	199	3.51256281	0.66559988
26	199	4.47236181	0.80903356	199	3.60301508	0.62618853
27	199	4.44221106	0.7689867	198	3.50505051	0.65877501
28	199	2.63819095	1.16330631	199	2.03015075	0.84033151
29	199	3.94974874	0.95742048	198	3.1010101	0.81850364
30	199	3.03015075	1.091332	199	2.32160804	0.85698875
31	198	3.63636364	1.02213617	198	2.80808081	0.83910476
32	199	2.59798995	1.16740063	199	2.06030151	0.87408359
33	198	4.09090909	0.8619528	199	3.24120603	0.71216738
34	199	1.91457286	1.06255776	198	1.6010101	0.79170765
35	197	2.16751269	1.04849766	198	1.81313131	0.80001859
36	199	1.99497487	1.03229414	198	1.65151515	0.79642139
37	199	2.53768844	1.18804512	199	2.04020101	0.88670993
38	199	2.71859296	0.98021129	199	2.18090452	0.76372108
39	199	3.18090452	1.00876822	199	2.56281407	0.78162232
40	199	2.65326633	1.05187513	199	2.11055276	0.8151589
41	199	3.03015075	0.98426791	198	2.37373737	0.73472062
42	199	3.49748744	0.92591408	199	2.7638191	0.72439281
43	199	2.70854271	1.1306016	199	2.12562814	0.86415515
44	199	3.26633166	1.01723636	198	2.52020202	0.82295491
45	199	2.16080402	0.97663169	198	1.76767677	0.76507898
46	199	2.84924623	1.15355705	198	2.27777778	0.90042918
47	199	2.40703518	1.10561046	198	1.97979798	0.83671824
48	199	2.15577889	1.07348873	199	1.74371859	0.7975013
49	199	1.80904523	0.94479894	198	1.55050505	0.77063804

50	197	1.55329949	0.94946375	195	1.35897436	0.70663933
51	198	2.75252525	1.10576188	198	2.24242424	0.88519589
52	199	3.59296482	1.01012588	198	2.8989899	0.77387481
53	199	1.91457286	1.03364545	199	1.62311558	0.77438039
54	199	2.01005025	0.95340935	198	1.65656566	0.73576668
55	199	1.68844221	0.90085094	198	1.45454545	0.73729823
56	199	1.42713568	0.79357733	199	1.27638191	0.58516593
57	199	3.31155779	1.01175769	199	2.60301508	0.85173083
58	199	2.7638191	1.1098719	198	2.15656566	0.8730205
59	199	3.53768844	1.03832455	199	2.70351759	0.86895833
60	199	2.38190955	1.03224497	199	1.86432161	0.78924809
61	199	2.07537688	1.00470948	199	1.69849246	0.77820548
62	199	1.64321608	0.84587037	197	1.43147208	0.64017246
63	199	1.43718593	0.78162232	198	1.29292929	0.6170591
64	198	1.58585859	0.85508454	197	1.36040609	0.66781385
65	199	2.64321608	1.08634393	197	2.24365482	0.89870817
66	199	3.25125628	1.07176147	199	2.50251256	0.86383203
67	199	2.72864322	1.23776177	199	2.14070352	0.94297054
68	199	4.20100503	0.84075423	199	3.33668342	0.71929473
69	199	3.69346734	0.97520137	199	2.96482412	0.81263311
70	199	3.64321608	1.17565443	199	2.95979899	0.94729384
71	199	3.91457286	0.99378813	199	3.15075377	0.80865703
72	197	1.70558376	1.02748916	198	1.43939394	0.72927447
73	199	3.19095477	0.95012949	198	2.44949495	0.7573496
74	199	4.24120603	0.81780104	199	3.24623116	0.75523317
75	199	3.35678392	1.04366376	199	2.53266332	0.86321483
76	199	4.05527638	0.91118737	199	3.18592965	0.73209469
77	199	3.81407035	0.98504115	199	2.97487437	0.78133004
78	199	3.55276382	0.89667168	199	2.72361809	0.75142624
79	199	3.78894472	0.85023965	199	2.92462312	0.72428769
80	199	3.71859296	0.91076948	199	2.81407035	0.75250626
81	199	4.44221106	0.76239067	199	3.47738693	0.64215641
82	199	3.73869347	0.94391207	199	2.89447236	0.76799595
83	199	3.63819095	0.93189757	199	2.77889447	0.80488206
84	198	2.89393939	1.27205962	198	2.25757576	0.91757691
85	199	3.64824121	0.97280414	199	2.77386935	0.8003286
86	199	4.05025126	0.80245044	199	3.06532663	0.71120453
87	199	4.06532663	0.82923463	199	3.10552764	0.73437914
88	199	3.7839196	0.82176376	199	2.85929648	0.7387551
89	199	3.54271357	0.8915624	199	2.71859296	0.75291087
90	199	3.96984925	0.75149378	199	3.03015075	0.6809793
91	199	3.49246231	0.97374289	199	2.61306533	0.8202181
92	199	4.21105528	0.7886047	199	3.25628141	0.6739363
93	199	3.59296482	0.9046182	199	2.76884422	0.72949005
94	199	3.07537688	1.09606585	199	2.33165829	0.8822336
95	199	3.27638191	0.99949228	199	2.49246231	0.81568801
96	199	3.17085427	1.05454992	199	2.42713568	0.81863852
97	199	4.09547739	0.94062608	199	3.1959799	0.7893124
98	199	3.1959799	1.16201841	199	2.46231156	0.863009
99	199	2.98492462	1.18695514	199	2.28643216	0.87811025
100	199	3.01507538	1.17412072	199	2.31155779	0.90643997

101	199	2.7839196	1.11850492	198	2.11616162	0.83795825
102	199	3.27638191	1.08198983	199	2.57286432	0.84295496
103	199	3.16080402	1.12558463	198	2.46969697	0.85293813
104	199	2.71859296	1.03533825	199	2.11557789	0.75324788
105	199	3.62311558	1.06062129	198	2.78787879	0.86409164
106	199	3.51758794	1.15401898	199	2.73869347	0.84211152
107	198	3.86868687	1.12783396	198	2.99494949	0.90400954
108	198	2.16666667	1.18685696	198	1.67676768	0.84695073
109	198	3.91414141	1.12998002	198	3.05555556	0.89666299
110	198	4.08585859	0.9166824	198	3.15656566	0.78094848
111	198	4.12121212	0.91543701	198	3.24242424	0.7347904
112	198	4.16161616	0.93664344	198	3.24747475	0.78330854
113	198	3.19191919	1.22724377	197	2.47208122	0.94517153
114	198	4.06060606	0.96977868	197	3.11167513	0.77440941
115	198	3.68181818	0.96369252	197	2.86294416	0.78017362
116	198	4.08080808	0.96829714	197	3.19796954	0.79948704
117	197	4.17258883	0.90950755	198	3.24747475	0.77680112
118	197	3.79695431	1.3012517	196	3.02040816	0.98688416
119	197	4.23857868	0.88001276	198	3.2979798	0.71039844
120	198	3.40909091	1.21718581	198	2.67171717	0.94428986
121	198	2.55555556	1.18125995	198	1.98989899	0.87253583
122	197	3.15228426	1.27261476	197	2.43654822	0.97010638
123	198	2.39393939	1.0257416	198	1.86868687	0.71455449
124	198	2.26767677	1.0344648	198	1.77777778	0.72034334
125	196	2.25510204	0.99548957	194	1.78865979	0.69912992
126	198	1.7020202	0.80423748	196	1.45918367	0.60201997
127	198	1.78282828	0.82370223	198	1.47474747	0.56718083
128	198	2.31313131	0.9574338	196	1.80102041	0.72054038
129	195	3.78461538	0.89946676	195	3	0.7251022
130	196	4.24489796	0.90651459	198	3.18181818	0.85927175
131	197	3.02538071	1.36065916	196	2.29591837	1.03981442
132	198	3.71717172	1.06194347	196	2.82653061	0.88318201
133	198	3.64646465	1.04530015	198	2.73737374	0.8793844
134	196	3.76530612	1.05539902	196	2.86734694	0.91301423
135	197	4.44162437	0.79724871	197	3.45685279	0.71028612
136	197	2.62436548	1.37061554	197	2.07106599	1.0424781
137	198	2.34848485	1.30783377	197	1.87309645	0.95785531
138	197	4.13705584	0.96176786	197	3.21319797	0.84830469
139	197	4.5177665	0.73257937	198	3.56060606	0.61608197
140	197	4.12690355	0.84463315	198	3.16666667	0.79177241
141	197	3.71573604	1.05482666	196	2.80102041	0.92608854
142	197	3.80203046	0.89579285	198	2.84343434	0.81279884
143	197	3.76142132	0.93073046	196	2.77040816	0.81859281
144	198	4.31313131	3.72710327	197	3.10659898	0.72408077
145	197	3.53807107	0.98188819	198	2.75252525	0.81506668
146	198	3.28787879	1.06773376	196	2.54081633	0.79959435
147	198	3.96464646	0.85719566	198	3.07070707	0.73702
148	198	4.21717172	0.77937114	198	3.28787879	0.70022081
149	198	3.5959596	0.94433058	198	2.75757576	0.8134767
150	196	3.25510204	1.08897717	197	2.42639594	0.89266495
151	196	3.91836735	0.97321534	198	3.03030303	0.83641179

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153

198 3.97474747 0.89803434
198 4.07575758 0.93944448

198 3.08080808 0.77625638
198 3.15151515 0.80434905

Skill Item #	Expected @ Certification			Importance Rating		
	N	Mean	s.d.	N	Mean	s.d.
1	197	2.78172589	1.34318805	196	2.24489796	1.00828592
2	196	3.98979592	1.15020531	196	3.10204082	0.91696037
3	195	2.31794872	1.16717824	196	1.86734694	0.8669162
4	196	2.6377551	1.35359088	194	2.10824742	0.99409345
5	196	2.23979592	1.24803351	194	1.80927835	0.92725932
6	196	2.48469388	1.27491394	195	1.98461538	0.94420055
7	196	2.67346939	1.23848965	196	2.14285714	0.9170745
8	195	2.76923077	1.28555693	195	2.23076923	0.92673739
9	195	3.10769231	1.19003262	195	2.42051282	0.90108168
10	197	2.89847716	1.20367113	195	2.2974359	0.89312586
11	195	3.98461538	0.98167185	195	3.14358974	0.81853366
12	197	1.86294416	1.07214141	195	1.58974359	0.84089878
13	197	3.80203046	1.03332036	196	2.94897959	0.83968796
14	195	2.28717949	1.10742096	197	1.84771574	0.84946403
15	196	2.91326531	1.23106273	195	2.24615385	0.908677
16	195	3.94871795	1.06849731	195	3.07692308	0.82439029
17	197	2.44670051	1.10815704	196	1.96938776	0.80325085
18	195	1.97435897	1.04751004	195	1.64615385	0.76179595
19	194	2.50515464	1.17507545	195	1.97435897	0.88186715
20	193	3.97409326	0.93226445	191	3.07853403	0.76716151
21	190	2.51578947	1.0476798	191	2.06806283	0.84640162
22	188	3.64893617	0.94453052	190	2.84210526	0.81410566
23	188	3.7393617	0.91402829	187	2.89839572	0.86468814
24	187	3.94117647	1.03786625	191	2.9895288	0.89436557
25	192	3.48958333	0.99732408	191	2.79581152	0.85543664
26	190	3.17368421	1.05727117	194	2.51546392	0.87110676
27	192	2.70833333	1.14787914	192	2.171875	0.85408818
28	191	2.7591623	1.12137478	193	2.21243523	0.82376851
29	179	4.15083799	0.94490762	188	3.07446809	0.9392153
30	172	4.83139535	0.41962435	190	3.44736842	1.03630827
31	178	4.52808989	0.69850345	191	3.32460733	0.94555566
32	188	3.46808511	1.10130819	190	2.66315789	0.96071541
33	186	3.78494624	0.89864116	189	2.85185185	0.80507649
34	188	3.93085106	0.90778294	191	2.9947644	0.83664356
35	189	4.00529101	0.84738242	193	3.05699482	0.78519191
36	183	4.45901639	0.71653402	193	3.27979275	0.89817869
37	188	4.14893617	0.83323282	191	3.19371728	0.80731022
38	191	3.98429319	0.87945222	192	3.08333333	0.84589142
39	189	4.19047619	0.78936703	189	3.19047619	0.78259952
40	183	4.39344262	0.72503176	193	3.30569948	0.8568466
41	191	4.07853403	0.87003324	194	3.1443299	0.78838315
42	190	3.86842105	0.91348083	193	2.97409326	0.79996897
43	195	3.66666667	0.96145651	195	2.84615385	0.8039356
44	194	3.88659794	0.91477553	194	2.9742268	0.80436353
45	191	3.7539267	1.04487359	191	2.94764398	0.84441334
46	194	3.46907216	1.03391813	193	2.70466321	0.90186671
47	194	3.74226804	1.0208028	194	2.89690722	0.86957242
48	193	3.8238342	0.97363784	192	2.91666667	0.86426032
49	194	3.78865979	0.93944932	192	2.89583333	0.83733767

50	195	2.12307692	1.11004354	195	1.75384615	0.86210189
51	181	4.43646409	0.76201246	189	3.23809524	0.95172216
52	189	3.64550265	1.12809545	193	2.79792746	0.96587388
53	194	3.80412371	1.07384521	193	2.9119171	0.89414353

Ability Item #	Expected @ Cetification			N	Importance Rating		
	N	Mean	s.d.		Mean	s.d.	
1	187	4.09090909	1.06117845	193	3.08290155	0.91479043	
2	190	3.75263158	1.10643544	192	2.8125	0.90735794	
3	190	3.44736842	1.30723199	189	2.63492063	0.98879231	
4	192	3.31770833	1.13861262	191	2.5078534	0.91115375	
5	192	3.03125	1.3877031	191	2.36125654	1.00544124	
6	193	3.36787565	1.42682783	191	2.59685864	1.09052888	
7	182	4.51648352	0.79865408	192	3.32291667	0.98144878	
8	183	4.43715847	0.94061975	193	3.29533679	1.01079023	
9	192	3.9375	1.02136855	192	2.94791667	0.890553	
10	192	4.05729167	0.88728597	194	3.02061856	0.81411615	
11	190	4.25789474	0.88599676	194	3.20618557	0.86901939	
12	187	4.18181818	0.82897197	195	3.14358974	0.84334718	
13	191	4.08900524	0.97734041	193	3.06735751	0.90750445	
14	192	3.39583333	1.03831485	193	2.58031088	0.85087327	
15	192	3.65104167	1.01718169	193	2.79792746	0.85731889	
16	192	3.57291667	1.01036297	190	2.72105263	0.86744711	
17	189	3.42857143	1.00075959	192	2.64583333	0.86803825	
18	186	3.79569892	0.90713853	192	2.9375	0.83525085	
19	188	3.34574468	1.30512481	187	2.60962567	0.94043765	
20	189	3.56613757	1.22131617	188	2.82446809	0.945599	
21	185	3.99459459	1.05034827	189	3.06349206	0.86675629	
22	189	3.83068783	0.87087023	190	2.95263158	0.77859487	
23	189	4.14814815	0.96163605	192	3.171875	0.79041418	
24	190	3.70526316	0.99068342	192	2.86458333	0.8137534	
25	191	4.09947644	0.83700578	189	3.20634921	0.68008284	
26	189	4.11640212	0.84248604	192	3.1875	0.72085609	
27	190	4.15263158	0.78536105	189	3.17460317	0.70423527	
28	191	3.42931937	0.92564575	193	2.60621762	0.77079686	
29	190	3.69473684	0.93235418	192	2.85416667	0.74467276	
30	192	4.359375	0.72430911	192	3.34375	0.65247214	
31	192	4.125	0.82816899	193	3.1761658	0.73601674	
32	192	3.265625	1.16998484	192	2.53125	0.92609776	
33	194	3.65463918	1.0073842	193	2.88601036	0.77557851	
34	193	4.11917098	0.77814907	194	3.22164948	0.66546595	
35	194	4.03608247	0.90120076	193	3.11917098	0.73689618	
36	196	3.79081633	0.95655222	194	2.93298969	0.78234689	
37	195	4.46666667	0.72699542	194	3.50515464	0.62127583	
38	195	4.08717949	0.7581786	192	3.15625	0.63622126	
39	194	4.31958763	0.71325557	192	3.35416667	0.60502549	
40	192	4.21354167	0.76659576	192	3.22395833	0.66855236	
41	194	3.75257732	1.01318692	192	2.89583333	0.81194185	
42	193	3.46632124	1.14571459	193	2.69430052	0.87489205	
43	192	3.81770833	0.82061078	193	2.90673575	0.70828888	
44	192	3.93229167	0.81259648	193	3	0.69221866	
45	192	3.31770833	1.1658756	192	2.57291667	0.90657623	
46	193	4.1761658	0.80367114	194	3.22680412	0.67532613	
47	191	4.41361257	0.72665277	192	3.484375	0.59646921	
48	192	4.796875	0.47491044	195	3.76923077	0.50059441	
49	194	4.60309278	0.58671892	193	3.61658031	0.58464262	
50	194	4.49484536	0.72159454	195	3.55897436	0.60099486	

51	194	3.51546392	1.14370004	193	2.8134715	0.91652927
52	193	3.38860104	1.16783035	193	2.75129534	0.92438655
53	194	4.54639175	0.90503048	192	3.60416667	0.70122058
54	192	3.515625	0.92649518	190	2.69473684	0.75695973
55	194	3.34020619	1.05679737	190	2.66315789	0.8114332
56	195	3.65128205	1.04113137	193	2.83937824	0.80370472
57	194	3.95876289	0.90384929	194	3.08762887	0.75326684
58	196	2.78061224	1.3427227	193	2.22279793	1.01913896
59	193	2.50777202	1.19512539	191	2.02617801	0.90282921
60	194	2.72680412	1.23111773	192	2.11458333	0.90801886
61	195	2.71282051	1.21400324	191	2.20942408	0.91082102
62	192	3.59895833	1.10713959	192	2.796875	0.84716381
63	193	3.11398964	1.3218757	192	2.44791667	0.94752134
64	194	3.05154639	1.16397687	193	2.38860104	0.90096858
65	194	3.08247423	1.21023359	192	2.39583333	0.93762725
66	194	3.1185567	1.29621449	192	2.43229167	0.98979027
67	189	3.25925926	1.22972125	190	2.55789474	0.91681285
68	192	3.41145833	1.33124905	190	2.67368421	0.99141399
69	190	3.92631579	1.13381974	191	3.11518325	0.84438071
70	185	3.25945946	1.08734306	183	2.57377049	0.85405979
71	189	4.63492063	0.71388033	191	3.67015707	0.5813772
72	193	4.05181347	0.97222325	192	3.15625	0.79036243
73	191	4.12565445	0.90897366	191	3.23560209	0.76226085
74	192	4.33333333	0.86426032	189	3.37566138	0.72320226
75	191	4.20418848	1.06384766	190	3.32105263	0.80808019
76	194	3.92268041	1.18680179	191	3.11518325	0.8809862
77	195	3.76923077	1.10438532	192	2.94791667	0.86671785
78	194	3.1185567	1.20506959	191	2.47643979	0.94491431
79	192	3.36979167	1.1861875	191	2.63874346	0.90050658
80	194	2.51546392	1.22252946	192	2.02604167	0.90046466
81	194	3.29896907	1.23979731	193	2.52849741	0.93567396
82	191	3.12041885	1.17480204	192	2.42708333	0.88908202
83	193	3.77720207	1.26536327	192	2.94791667	0.95850879
84	193	4.32124352	0.85416535	192	3.40104167	0.70197847
85	194	4.28865979	0.77471389	192	3.36979167	0.65819359
86	193	4.33678756	0.77429003	193	3.40414508	0.64741748
87	193	4.39378238	0.7432773	194	3.44845361	0.61071832
88	194	4.24226804	0.8131478	193	3.34715026	0.65248297
89	192	4.50520833	0.69400873	194	3.56185567	0.60975546
90	195	3.84102564	0.98982398	194	3.03092784	0.80095291
91	194	4.03608247	0.91828693	194	3.18556701	0.75261061
92	194	4.12371134	0.81128992	194	3.25257732	0.70755989
93	195	4.25641026	0.79683487	193	3.35751295	0.70093541
94	192	4.578125	0.65852495	194	3.55670103	0.64332479
95	192	4.546875	0.69243528	194	3.58247423	0.63237529
96	195	4.48717949	0.73469942	191	3.53926702	0.67064579
97	195	4.25128205	0.83322495	191	3.26701571	0.73047281
98	191	4.15183246	0.77662176	193	3.13471503	0.7089363
99	194	4.40206186	0.71490126	192	3.4375	0.62767751
100	195	4.33846154	0.73098415	194	3.39690722	0.66144035
101	193	4.44559585	0.68343021	193	3.4507772	0.65264838
102	193	4.51813472	0.66217181	193	3.52331606	0.61298908
103	193	3.4611399	1.11793744	192	2.72395833	0.8511458

104	194	3.55154639	1.07728438	193	2.67875648	0.92444494
105	192	4.68229167	0.65370387	191	3.72774869	0.57966838
106	193	4.78238342	0.58121686	193	3.79792746	0.51599