

In situ data								
No	Depth (ft)	qc (tsf)	fs (tsf)	SBTn	Ksbt (ft/s)	Cv (ft ² /s)	SPT N1(60) (blows/feet)	Constrained Mod. (tsf)
1	0.16	6.17	0.14	5	1.15E-05	4.70E-02	35	127.52
2	0.33	2.16	0.11	4	3.92E-07	3.77E-04	22	30
3	0.49	2.59	0.13	4	3.36E-07	3.85E-04	20	35.7
4	0.66	6.74	0.12	5	5.32E-06	1.60E-02	20	93.95
5	0.82	11.28	0.1	6	2.38E-05	1.55E-01	19	203.61
6	0.98	8.78	0.15	5	5.27E-06	2.06E-02	19	121.95
7	1.15	9.73	0.2	5	3.86E-06	1.68E-02	21	136.17
8	1.31	15.48	0.41	5	5.02E-06	3.53E-02	29	219.48
9	1.48	22.57	0.5	5	1.08E-05	1.65E-01	33	476.32
10	1.64	20.96	0.57	5	5.72E-06	5.35E-02	32	292.04
11	1.8	32.94	0.93	5	9.87E-06	2.21E-01	42	699.86
12	1.97	47.45	1.21	5	1.94E-05	5.53E-01	50	892.29
13	2.13	44.2	1.36	8	1.09E-05	3.23E-01	49	920.93
14	2.3	36.04	1.42	8	4.52E-06	7.27E-02	46	502.44
15	2.46	46.33	1.48	8	9.53E-06	3.03E-01	49	993.71
16	2.62	53.02	1.67	8	1.13E-05	3.97E-01	52	1099.58
17	2.79	53.75	1.71	8	1.05E-05	3.79E-01	51	1128.88
18	2.95	47.42	1.76	8	5.92E-06	1.25E-01	48	661.65
19	3.12	50.16	1.75	8	6.93E-06	2.52E-01	48	1134.75
20	3.28	40.24	1.49	8	4.13E-06	7.42E-02	40	560.83
21	3.44	48.49	1.56	5	7.07E-06	2.48E-01	43	1093.44
22	3.61	62.34	1.58	5	1.63E-05	6.31E-01	46	1208.57
23	3.77	52.21	1.46	5	9.52E-06	3.40E-01	41	1114.37
24	3.94	33.26	1.44	9	1.75E-06	2.60E-02	34	462.25
25	4.1	23.51	1.47	9	4.36E-07	4.54E-03	30	325.46
26	4.27	20.58	2	9	1.30E-07	1.18E-03	31	284.46
27	4.43	53.55	2.27	9	3.48E-06	8.31E-02	45	746.28
28	4.59	67.36	2.57	8	6.02E-06	1.81E-01	50	939.29
29	4.76	59.73	2.34	8	4.51E-06	1.20E-01	46	832.48
30	4.92	53.57	1.96	8	4.22E-06	1.01E-01	40	746.6
31	5.09	58.18	1.62	5	8.34E-06	3.40E-01	39	1272.5
32	5.25	45.77	1.24	5	5.57E-06	1.14E-01	32	636.67
33	5.41	33.32	0.93	5	2.80E-06	4.15E-02	25	461.99
34	5.58	22.78	0.79	4	8.53E-07	8.59E-03	20	314.39
35	5.74	19.29	0.66	4	6.07E-07	5.17E-03	17	266
36	5.91	17.66	0.61	4	4.72E-07	3.67E-03	16	242.91
37	6.07	15.51	0.55	4	3.28E-07	2.24E-03	15	212.55
38	6.23	13.45	0.48	4	2.32E-07	1.36E-03	13	183.64
39	6.4	11.8	0.42	4	1.65E-07	8.49E-04	12	160.25
40	6.56	10.62	0.35	4	1.42E-07	6.52E-04	10	143.66

41	6.73	9.79	0.31	4	1.24E-07	5.25E-04	10	131.92
42	6.89	9.33	0.3	4	1.05E-07	4.20E-04	9	125.33
43	7.05	9.58	0.29	4	1.13E-07	4.68E-04	9	128.74
44	7.22	10.06	0.3	4	1.29E-07	5.61E-04	9	135.48
45	7.38	10.68	0.26	4	1.95E-07	9.01E-04	9	143.98
46	7.55	10.36	0.22	4	2.18E-07	9.72E-04	8	139.47
47	7.71	9.69	0.19	4	1.98E-07	8.23E-04	8	129.94
48	7.87	9.06	0.19	4	1.45E-07	5.64E-04	7	121.15
49	8.04	9.1	0.24	4	9.81E-08	3.82E-04	8	121.63
50	8.2	10.02	0.28	4	1.04E-07	4.49E-04	8	134.46
51	8.37	11.72	0.29	4	1.79E-07	9.05E-04	9	158.2
52	8.53	13.08	0.35	4	1.97E-07	1.12E-03	10	177.08
53	8.69	14.13	0.44	4	1.72E-07	1.06E-03	11	191.65
54	8.86	15.74	0.54	4	1.80E-07	1.23E-03	12	214.16
55	9.02	17.26	0.65	4	1.81E-07	1.36E-03	12	235.27
56	9.19	19.57	0.74	4	2.28E-07	1.95E-03	14	267.29
57	9.35	22.06	0.83	4	2.81E-07	2.72E-03	15	301.81
58	9.51	25.57	0.88	4	4.46E-07	5.00E-03	16	350.67
59	9.68	25.18	0.56	5	9.41E-07	1.04E-02	14	344.43
60	9.84	23.38	0.66	4	4.98E-07	5.09E-03	14	318.75
61	10.01	23.38	0.72	4	4.20E-07	4.28E-03	14	318.47
62	10.17	26.04	0.67	4	7.33E-07	8.34E-03	14	355.28
63	10.33	26.66	0.62	5	9.27E-07	1.08E-02	14	363.82
64	10.5	28.59	0.63	5	1.17E-06	1.46E-02	15	390.74
65	10.66	26.89	0.68	4	7.82E-07	9.18E-03	15	366.71
66	10.83	25.85	0.73	4	5.66E-07	6.38E-03	14	351.94
67	10.99	26.3	0.65	4	7.54E-07	8.65E-03	14	358.09
68	11.15	25.57	0.78	4	4.69E-07	5.23E-03	14	347.66
69	11.32	24.9	0.79	4	3.99E-07	4.33E-03	14	338.61
70	11.48	36.1	0.63	5	2.80E-06	4.45E-02	16	495.43
71	11.65	48.01	0.37	6	2.17E-05	6.07E-01	17	872.35
72	11.81	52.61	0.26	6	5.14E-05	1.35E+00	17	818.78
73	11.98	55.22	0.31	6	4.95E-05	1.37E+00	18	866.44
74	12.14	56.05	0.34	6	4.37E-05	1.26E+00	18	900.62
75	12.3	53.57	0.36	6	3.39E-05	9.79E-01	18	900.3
76	12.47	53.57	0.34	6	3.60E-05	1.03E+00	17	890.66
77	12.63	55.72	0.33	6	4.45E-05	1.27E+00	18	891.73
78	12.8	59.12	0.35	6	5.12E-05	1.51E+00	18	922.84
79	12.96	60.18	0.37	6	4.96E-05	1.50E+00	19	945.08
80	13.12	60.12	0.38	6	4.61E-05	1.41E+00	19	956.35
81	13.29	61.86	0.41	6	4.63E-05	1.46E+00	19	984
82	13.45	63.35	0.43	6	4.69E-05	1.51E+00	20	1005.36
83	13.62	63.13	0.43	6	4.51E-05	1.46E+00	20	1008.85

84	13.78	63.05	0.42	6	4.59E-05	1.48E+00	19	1004.11
85	13.94	65.39	0.42	6	5.35E-05	1.74E+00	20	1013.42
86	14.11	67.85	0.44	6	5.75E-05	1.91E+00	20	1038.14
87	14.27	72.68	0.45	6	7.20E-05	2.46E+00	21	1068.34
88	14.44	79.89	0.44	6	1.09E-04	3.82E+00	22	1089.61
89	14.6	83.09	0.37	6	1.63E-04	5.49E+00	22	1055.19
90	14.76	90.82	0.44	6	1.75E-04	6.39E+00	24	1138.76
91	14.93	100.72	0.5	6	2.21E-04	8.58E+00	25	1211.75
92	15.09	103.89	0.52	6	2.29E-04	9.10E+00	26	1242.67
93	15.26	105.34	0.52	6	2.43E-04	9.69E+00	26	1246.42
94	15.42	101.42	0.52	6	2.08E-04	8.23E+00	25	1233.21
95	15.58	100.31	0.53	6	1.90E-04	7.56E+00	25	1239.48
96	15.75	106.05	0.55	6	2.23E-04	9.11E+00	26	1273.93
97	15.91	113.2	0.59	6	2.58E-04	1.09E+01	27	1325.65
98	16.08	119.83	0.62	6	2.99E-04	1.31E+01	29	1366.08
99	16.24	128.49	0.65	6	3.64E-04	1.65E+01	30	1414.37
100	16.4	132.19	0.66	6	3.95E-04	1.81E+01	30	1434.21
101	16.57	133.2	0.64	6	4.19E-04	1.92E+01	30	1429.59
102	16.73	133.67	0.64	6	4.31E-04	1.97E+01	30	1427.36
103	16.9	137.48	0.65	6	4.62E-04	2.15E+01	31	1449.96
104	17.06	140.91	0.65	6	5.05E-04	2.37E+01	31	1462.57
105	17.22	140.81	0.64	6	5.12E-04	2.39E+01	31	1458
106	17.39	137.37	0.64	6	4.62E-04	2.14E+01	30	1448.23
107	17.55	139.68	0.66	6	4.64E-04	2.19E+01	31	1471.93
108	17.72	146.7	0.7	6	5.21E-04	2.53E+01	32	1514.26
109	17.88	150.2	0.74	6	5.09E-04	2.54E+01	33	1557.12
110	18.04	156.72	0.81	6	5.15E-04	2.67E+01	34	1621.43
111	18.21	162.33	0.86	6	5.36E-04	2.86E+01	35	1667.75
112	18.37	158.42	0.78	6	5.79E-04	2.98E+01	34	1604.47
113	18.54	153.85	0.74	6	5.48E-04	2.76E+01	33	1573.4
114	18.7	156.44	0.79	6	5.30E-04	2.73E+01	34	1609.45
115	18.86	162.39	0.8	6	5.90E-04	3.10E+01	34	1639.01
116	19.03	174.82	0.87	6	6.89E-04	3.79E+01	36	1716.37
117	19.19	186.55	0.92	6	8.21E-04	4.67E+01	38	1775.2
118	19.36	199.12	0.96	6	9.79E-04	5.76E+01	40	1836.03
119	19.52	209.5	1.09	6	9.64E-04	5.98E+01	42	1937.65
120	19.69	217.56	1.05	6	1.21E-03	7.48E+01	42	1931.67
121	19.85	221.06	1.11	6	1.14E-03	7.24E+01	43	1983.71
122	20.01	219.52	1.2	6	9.52E-04	6.20E+01	43	2035.16
123	20.18	231.12	1.34	6	9.52E-04	6.53E+01	46	2143.03
124	20.34	225.8	1.42	6	7.62E-04	5.32E+01	45	2179.01
125	20.51	209.04	1.4	6	5.67E-04	3.86E+01	43	2127.48
126	20.67	197.63	1.31	6	5.04E-04	3.31E+01	41	2054.01

127	20.83	194.25	1.24	6	5.20E-04	3.34E+01	40	2007.29
128	21	187.76	1.21	6	4.69E-04	2.97E+01	39	1975.87
129	21.16	200.31	1.22	6	6.02E-04	3.89E+01	41	2015.7
130	21.33	218.65	1.27	6	7.99E-04	5.35E+01	43	2091.48
131	21.49	233.53	1.55	6	7.06E-04	5.17E+01	47	2284.78
132	21.65	259.57	1.79	6	8.23E-04	6.52E+01	51	2471.6
133	21.82	278.55	2.06	6	8.15E-04	6.94E+01	55	2657.64
134	21.98	286.55	2.21	6	7.84E-04	6.92E+01	56	2753.56
135	22.15	288.56	2.23	6	7.83E-04	6.96E+01	57	2773.38
136	22.31	285.4	2.29	6	7.00E-04	6.28E+01	56	2798.78
137	22.47	280.42	2.13	6	7.60E-04	6.59E+01	55	2709.64
138	22.64	274.3	2.37	6	5.47E-04	4.93E+01	55	2812.31
139	22.8	263.91	2.37	6	4.61E-04	4.12E+01	54	2790.64
140	22.97	251.25	2.54	6	3.18E-04	2.89E+01	53	2840.15
141	23.13	249.52	2.52	6	3.11E-04	2.82E+01	53	2832.2
142	23.29	244.44	2.53	6	2.82E-04	2.55E+01	52	2822.69
143	23.46	243.77	2.43	6	3.03E-04	2.70E+01	51	2778.31
144	23.62	244.18	2.26	6	3.59E-04	3.10E+01	50	2700.07
145	23.79	239.72	2.08	6	3.95E-04	3.30E+01	49	2604.37
146	23.95	237.97	1.83	6	5.02E-04	3.98E+01	47	2475.62
147	24.11	235.78	1.78	6	5.09E-04	3.99E+01	47	2446.37
148	24.28	223.25	1.71	6	4.36E-04	3.32E+01	45	2381.47
149	24.44	226.47	1.67	6	4.86E-04	3.69E+01	45	2368.9
150	24.61	250.81	1.93	6	5.52E-04	4.53E+01	49	2565.21
151	24.77	271.13	2.42	6	4.65E-04	4.26E+01	54	2860.72
152	24.93	274.26	2.57	6	4.23E-04	3.99E+01	55	2943.6
153	25.1	252.71	2.29	6	3.85E-04	3.40E+01	51	2757.48
154	25.26	235.58	2.06	6	3.57E-04	2.98E+01	47	2605.53
155	25.43	239.84	2.1	6	3.66E-04	3.09E+01	48	2640.89
156	25.59	239.13	2.34	6	2.83E-04	2.50E+01	49	2757.4
157	25.75	235.52	2.6	6	2.09E-04	1.92E+01	50	2870.19
158	25.92	239.67	2.65	6	2.14E-04	1.99E+01	50	2906.74
159	26.08	238.65	2.72	6	1.96E-04	1.85E+01	50	2939.82
160	26.25	231.29	2.69	6	1.76E-04	1.64E+01	49	2904.47
161	26.41	231.06	2.48	6	2.09E-04	1.89E+01	48	2812.73
162	26.57	242.71	2.58	6	2.35E-04	2.18E+01	50	2893.64
163	26.74	262.37	2.74	6	2.87E-04	2.77E+01	53	3019.62
164	26.9	271.83	2.65	6	3.59E-04	3.45E+01	54	3005.09
165	27.07	278.19	2.65	6	3.95E-04	3.83E+01	54	3022.1
166	27.23	282.37	2.56	6	4.53E-04	4.34E+01	54	2993.47
167	27.4	280.53	2.52	6	4.54E-04	4.32E+01	54	2972.25
168	27.56	276.4	2.57	6	4.07E-04	3.89E+01	53	2986.11
169	27.72	272.91	2.63	6	3.63E-04	3.50E+01	53	3010.18

170	27.89	268.15	2.75	6	3.01E-04	2.95E+01	53	3059.85
171	28.05	257.9	2.88	6	2.28E-04	2.26E+01	52	3092.5
172	28.22	246.12	2.79	6	1.99E-04	1.92E+01	50	3025.38
173	28.38	228.84	2.6	6	1.69E-04	1.57E+01	47	2894
174	28.54	213.72	2.48	6	1.40E-04	1.25E+01	45	2796.75
175	28.71	209.43	2.45	6	1.30E-04	1.16E+01	44	2774.98
176	28.87	213.71	2.58	6	1.26E-04	1.15E+01	45	2848.83
177	29.04	210.33	2.53	6	1.23E-04	1.11E+01	44	2817.01
178	29.2	204.56	2.49	6	1.12E-04	1.00E+01	43	2783.94
179	29.36	198.23	2.41	6	1.04E-04	9.13E+00	42	2732.4
180	29.53	182.53	2.13	6	9.47E-05	7.76E+00	39	2558.06
181	29.69	165.19	1.63	6	1.08E-04	7.79E+00	35	2259.79
182	29.86	154.63	1.45	6	1.03E-04	7.05E+00	32	2129.43
183	30.02	156.43	1.44	6	1.10E-04	7.48E+00	33	2131.35
184	30.18	161.59	1.63	6	9.60E-05	6.94E+00	34	2255.75
185	30.35	167.99	1.89	6	8.31E-05	6.41E+00	36	2408.5
186	30.51	173.79	1.99	6	8.55E-05	6.79E+00	37	2479.31
187	30.68	172.97	1.97	6	8.52E-05	6.74E+00	36	2468.85
188	30.84	172.36	1.75	6	1.09E-04	8.19E+00	36	2354.21
189	31	175.99	1.63	6	1.37E-04	1.01E+01	35	2304.92
190	31.17	174.07	1.43	6	1.71E-04	1.20E+01	34	2190.78
191	31.33	161.87	1.35	6	1.37E-04	9.31E+00	32	2117.38
192	31.5	145.49	1.26	6	9.77E-05	6.33E+00	30	2021.21
193	31.66	133.82	1.18	6	7.71E-05	4.79E+00	28	1938.38
194	31.82	131.39	1.16	6	7.25E-05	4.47E+00	28	1923.95
195	31.99	126.71	1.17	6	6.08E-05	3.73E+00	27	1914.08
196	32.15	131.26	1.2	6	6.68E-05	4.17E+00	28	1950.42
197	32.32	140.34	1.26	6	8.14E-05	5.25E+00	29	2013.58
198	32.48	138.76	1.28	6	7.43E-05	4.81E+00	29	2024.05
199	32.64	135.97	1.29	6	6.68E-05	4.32E+00	28	2020.87
200	32.81	140.54	1.31	6	7.46E-05	4.89E+00	29	2048.45
201	32.97	151.45	1.38	6	9.31E-05	6.33E+00	31	2122.4
202	33.14	169.54	1.53	6	1.24E-04	8.95E+00	33	2260.11
203	33.3	186.86	1.63	6	1.66E-04	1.26E+01	36	2364.12
204	33.46	202.06	1.76	6	1.99E-04	1.58E+01	38	2475.81
205	33.63	208.61	1.89	6	1.95E-04	1.60E+01	39	2565.89
206	33.79	218.84	1.94	6	2.26E-04	1.90E+01	41	2621.14
207	33.96	214.14	1.97	6	1.99E-04	1.67E+01	40	2624.85
208	34.12	205.24	1.83	6	1.92E-04	1.56E+01	39	2530.29
209	34.28	201.4	1.65	6	2.19E-04	1.70E+01	37	2425.19
210	34.45	194.07	1.26	6	3.19E-04	2.23E+01	35	2181.18
211	34.61	192.45	1.15	6	3.69E-04	2.49E+01	34	2107.16
212	34.78	187.57	1	6	4.29E-04	2.74E+01	33	1998.1

213	34.94	180.82	1.07	6	3.15E-04	2.06E+01	32	2035.23
214	35.1	173.57	1.22	6	2.03E-04	1.38E+01	32	2113.29
215	35.27	155.39	1.25	6	1.17E-04	7.82E+00	30	2088.38
216	35.43	139.74	1.14	6	8.70E-05	5.51E+00	27	1977.93
217	35.6	131.07	1.05	6	7.64E-05	4.64E+00	26	1897.56
218	35.76	126.58	1.03	6	6.78E-05	4.06E+00	25	1871.35
219	35.93	130.13	0.8	6	1.22E-04	6.75E+00	25	1730.97
220	36.09	145.17	0.97	6	1.38E-04	8.38E+00	27	1889.84
221	36.25	165.3	1.25	6	1.49E-04	1.02E+01	31	2127.21
222	36.42	183.82	1.59	6	1.47E-04	1.12E+01	34	2373.53
223	36.58	194.03	1.94	6	1.22E-04	1.01E+01	37	2595.2
224	36.75	195.61	2.16	6	9.98E-05	8.67E+00	37	2711.71
225	36.91	201.28	2.23	6	1.05E-04	9.31E+00	38	2765.21
226	37.07	207.19	2.35	6	1.06E-04	9.66E+00	39	2842.64
227	37.24	217.35	2.44	6	1.19E-04	1.12E+01	41	2919.96
228	37.4	226.39	2.59	6	1.25E-04	1.20E+01	42	3019.53
229	37.57	223.68	2.61	6	1.15E-04	1.12E+01	42	3024.31
230	37.73	219.57	2.5	6	1.17E-04	1.11E+01	41	2959.88
231	37.89	206.88	2.36	6	1.02E-04	9.32E+00	39	2859.1
232	38.06	196.59	2.2	6	9.41E-05	8.30E+00	37	2754.16
233	38.22	189.27	2.25	6	7.47E-05	6.61E+00	36	2762.84
234	38.39	192.55	2.31	6	7.62E-05	6.84E+00	37	2801.2
235	38.55	197.48	2.48	6	7.24E-05	6.72E+00	38	2900.65
236	38.71	185.88	2.62	6	4.82E-05	4.53E+00	37	2936.58
237	38.88	189.99	2.87	6	4.30E-05	4.22E+00	38	3064.86
238	39.04	179.06	2.49	6	4.52E-05	4.14E+00	35	2860.45
239	39.21	168.44	2.06	6	5.24E-05	4.39E+00	33	2617.82
240	39.37	171.17	1.77	6	7.77E-05	6.16E+00	32	2476.71
241	39.53	171.96	1.74	6	8.16E-05	6.44E+00	32	2465.16
242	39.7	180.43	1.59	6	1.22E-04	9.42E+00	33	2405.91
243	39.86	186.51	1.58	6	1.43E-04	1.11E+01	33	2418.83
244	40.03	189.02	1.48	6	1.74E-04	1.32E+01	33	2365.79
245	40.19	187.13	1.4	6	1.84E-04	1.37E+01	33	2318.6
246	40.35	180.16	1.35	6	1.67E-04	1.21E+01	32	2271.21
247	40.52	164.02	1.23	6	1.32E-04	9.08E+00	29	2155.49
248	40.68	142.26	1.02	6	9.83E-05	6.19E+00	26	1966.38
249	40.85	124.45	0.89	6	6.85E-05	4.02E+00	23	1831.73
250	41.01	118.04	0.96	6	4.66E-05	2.78E+00	22	1860.5
251	41.17	106.12	1.27	5	1.65E-05	1.06E+00	22	2014.56
252	41.34	107.05	1.43	5	1.33E-05	9.00E-01	22	2113.01
253	41.5	138.83	1.52	6	3.87E-05	2.81E+00	27	2270.53
254	41.67	188.75	1.06	6	3.17E-04	2.15E+01	31	2118.61
255	41.83	226.36	1.39	6	4.21E-04	3.26E+01	37	2417.39

256	41.99	256.62	1.52	6	6.22E-04	5.09E+01	40	2557.46
257	42.16	278.07	1.72	6	6.83E-04	5.96E+01	43	2726.72
258	42.32	291.68	1.9	6	6.87E-04	6.29E+01	45	2857.97
259	42.49	292.54	1.85	6	7.37E-04	6.68E+01	45	2831.3
260	42.65	295.74	1.96	6	6.74E-04	6.28E+01	46	2908.95
261	42.81	298.44	2.08	6	6.20E-04	5.92E+01	47	2980.29
262	42.98	305.64	2.38	6	5.06E-04	5.13E+01	48	3167.17
263	43.14	317.03	2.69	6	4.51E-04	4.85E+01	50	3355.56
264	43.31	315.11	2.93	6	3.58E-04	3.99E+01	51	3477.59
265	43.47	309.33	2.96	6	3.21E-04	3.58E+01	50	3480.87
266	43.64	306.02	2.86	6	3.29E-04	3.62E+01	49	3427.43
267	43.8	303.36	2.73	6	3.52E-04	3.78E+01	49	3356.71
268	43.96	306.79	2.68	6	3.85E-04	4.12E+01	49	3340.55
269	44.13	303.63	2.7	6	3.59E-04	3.85E+01	49	3347.31
270	44.29	300.58	2.7	6	3.41E-04	3.66E+01	48	3343.82
271	44.46	300.22	2.68	6	3.43E-04	3.66E+01	48	3337.59
272	44.62	303.07	2.49	6	4.24E-04	4.40E+01	48	3241.86
273	44.78	308.01	2.15	6	6.33E-04	6.22E+01	47	3064.36
274	44.95	311.94	2.3	6	5.72E-04	5.79E+01	48	3161.51
275	45.11	253.71	2.56	6	1.74E-04	1.77E+01	42	3182.55
276	45.28	302.92	3.03	6	2.64E-04	2.99E+01	49	3529.6
277	45.44	278.14	3.23	6	1.53E-04	1.75E+01	46	3576.32
278	45.6	259.58	3.12	6	1.21E-04	1.35E+01	44	3477.32
279	45.77	260.6	2.9	6	1.46E-04	1.58E+01	44	3375.98
280	45.93	280.67	2.79	6	2.22E-04	2.40E+01	45	3372.78
281	46.1	290.75	2.6	6	3.08E-04	3.25E+01	46	3294.07
282	46.26	295.81	2.45	6	3.78E-04	3.91E+01	46	3229.41
283	46.42	298.55	2.27	6	4.65E-04	4.67E+01	46	3139.69
284	46.59	303.12	2.11	6	5.90E-04	5.77E+01	46	3053.64
285	46.75	305.78	2.16	6	5.77E-04	5.71E+01	46	3092.93
286	46.92	307.63	2.24	6	5.47E-04	5.51E+01	46	3141.37
287	47.08	304.68	2.23	6	5.24E-04	5.27E+01	46	3135.2
288	47.24	304.51	2.48	6	4.09E-04	4.30E+01	47	3276.92
289	47.41	309.82	2.52	6	4.28E-04	4.54E+01	47	3307.84
290	47.57	305.69	2.45	6	4.27E-04	4.47E+01	47	3264.34
291	47.74	307.33	2.33	6	4.86E-04	4.99E+01	46	3206.18
292	47.9	304.43	2.23	6	5.16E-04	5.19E+01	46	3141.69
293	48.06	294.49	2.16	6	4.72E-04	4.67E+01	44	3086.43
294	48.23	277.33	1.99	6	4.28E-04	4.06E+01	42	2956.81
295	48.39	276.87	1.85	6	4.95E-04	4.56E+01	41	2875.34
296	48.56	281.04	1.73	6	6.07E-04	5.47E+01	41	2813.83
297	48.72	282.36	1.55	6	7.86E-04	6.79E+01	41	2697.63
298	48.88	277.82	1.18	6	1.24E-03	9.73E+01	39	2442.04

299	49.05	276.83	0.79	6	2.54E-03	1.74E+02	37	2139.07
300	49.21	299.03	0.66	7	4.68E-03	3.10E+02	38	2069.14
301	49.38	304.55	0.7	7	4.68E-03	3.16E+02	39	2106.66
302	49.54	306.58	0.81	7	3.75E-03	2.65E+02	40	2207.45
303	49.7	298.83	1.1	6	1.94E-03	1.50E+02	40	2424.2
304	49.87	295.35	1.33	6	1.28E-03	1.06E+02	41	2581.3
305	50.03	282.63	1.4	6	9.31E-04	7.80E+01	40	2616.41
306	50.2	254.88	1.3	6	6.66E-04	5.34E+01	37	2504.85
307	50.36	246.69	1.19	6	6.87E-04	5.31E+01	35	2409.57
308	50.52	235.29	1.22	6	5.26E-04	4.06E+01	34	2411.17
309	50.69	238.48	1.69	6	2.83E-04	2.48E+01	36	2733.08
310	50.85	205.32	2.34	6	6.92E-05	6.72E+00	34	3030.32
311	51.02	125.76	2	5	9.82E-06	8.23E-01	23	2618.59
312	51.18	72.97	1.6	5	1.21E-06	3.80E-02	15	981.42
313	51.35	48.77	1.16	4	3.46E-07	7.19E-03	11	648.27
314	51.51	38.68	0.9	4	1.92E-07	3.15E-03	9	511.32
315	51.67	36.9	1.04	4	1.13E-07	1.76E-03	9	485
316	51.84	38.28	0.98	4	1.49E-07	2.40E-03	9	503.94
317	52	41.77	0.98	4	2.22E-07	3.93E-03	9	551.28
318	52.17	45.49	0.97	4	3.45E-07	6.68E-03	10	604.63
319	52.33	46.56	0.96	4	3.92E-07	7.80E-03	10	620.21
320	52.49	48.22	1.01	4	4.19E-07	8.64E-03	10	642.95
321	52.66	50.55	1.01	4	5.35E-07	1.16E-02	11	677.67
322	52.82	51.59	1.04	4	5.64E-07	1.25E-02	11	694.87
323	52.99	51.38	1.22	4	4.02E-07	8.94E-03	11	694.12
324	53.15	51.7	1.3	4	3.59E-07	8.03E-03	11	697.36
325	53.31	47.45	1.3	4	2.28E-07	4.63E-03	10	633.34
326	53.48	41.23	1.19	4	1.37E-07	2.39E-03	9	545.14
327	53.64	36.92	1.05	4	1.01E-07	1.56E-03	8	483.81
328	53.81	33.43	0.91	4	8.17E-08	1.14E-03	8	434.99
329	53.97	31.29	1.02	3	4.85E-08	6.30E-04	7	404.91
330	54.13	30.13	0.96	3	4.58E-08	5.69E-04	7	388.15
331	54.3	29.96	0.95	3	4.43E-08	5.45E-04	7	383.97
332	54.46	30.14	0.9	3	4.99E-08	6.17E-04	7	386.26
333	54.63	30.39	1.09	3	3.70E-08	4.64E-04	7	392.04
334	54.79	32.91	1.04	3	5.74E-08	7.86E-04	8	427.42
335	54.95	36.23	1.28	3	5.91E-08	8.94E-04	8	472.27
336	55.12	33.21	1.5	3	2.85E-08	3.91E-04	8	428.5
337	55.28	41.95	2	3	4.91E-08	8.73E-04	10	555.65
338	55.45	54.83	2.77	3	8.17E-08	1.92E-03	13	733.41
339	55.61	61.49	2.96	3	1.17E-07	3.08E-03	14	823.46
340	55.77	63	2.78	4	1.46E-07	3.92E-03	14	838.33
341	55.94	57.44	2.07	4	1.78E-07	4.33E-03	12	760.85

342	56.1	47.61	1.49	4	1.42E-07	2.84E-03	10	622.86
343	56.27	34	0.63	4	1.43E-07	1.98E-03	7	432.7
344	56.43	27.65	0.62	4	5.59E-08	5.57E-04	6	311.2
345	56.59	26.2	0.69	3	3.65E-08	3.25E-04	6	277.96
346	56.76	27.9	0.84	3	3.43E-08	3.52E-04	6	320.47
347	56.92	32.41	1	3	5.03E-08	6.67E-04	7	414.3
348	57.09	34.46	0.98	3	6.84E-08	9.71E-04	8	443.18
349	57.25	35.63	1	4	7.71E-08	1.14E-03	8	459.71
350	57.41	35.81	0.92	4	9.38E-08	1.39E-03	8	464.09
351	57.58	33.1	0.92	3	6.32E-08	8.61E-04	7	424.91
352	57.74	28.75	1.2	3	2.01E-08	2.19E-04	7	341.09
353	57.91	28.6	1.81	3	8.80E-09	9.50E-05	7	337.21
354	58.07	35.26	2.15	3	1.65E-08	2.41E-04	9	456.59
355	58.23	44.59	2.37	3	3.89E-08	7.29E-04	10	584.48
356	58.4	51.66	2.1	3	9.38E-08	2.04E-03	11	678.54
357	58.56	57.2	2.12	4	1.46E-07	3.52E-03	12	753
358	58.73	52.77	2.54	3	6.78E-08	1.50E-03	11	690.04
359	58.89	49.84	2.67	3	4.65E-08	9.66E-04	11	649
360	59.06	60.25	2.5	3	1.28E-07	3.26E-03	12	794.92
361	59.22	80.33	2.29	4	6.35E-07	2.19E-02	15	1075.23
362	59.38	106.15	2.16	5	2.78E-06	1.28E-01	19	1435.6
363	59.55	129.07	1.82	5	1.03E-05	8.75E-01	21	2649.86
364	59.71	149.72	2.07	5	1.58E-05	1.45E+00	24	2856.14
365	59.88	164.11	2.11	6	2.34E-05	2.19E+00	26	2923.64
366	60.04	166.31	1.69	6	4.01E-05	3.46E+00	25	2688.68
367	60.2	167.85	1.45	6	5.73E-05	4.67E+00	25	2543.64
368	60.37	154.92	1.89	6	2.22E-05	1.98E+00	24	2780.15
369	60.53	132.82	2.9	5	4.05E-06	2.35E-01	23	1807.1
370	60.7	105.64	3.46	4	8.83E-07	4.03E-02	20	1426.38
371	60.86	86.18	3.61	4	2.95E-07	1.09E-02	17	1153.86
372	61.02	112.79	2.76	5	2.02E-06	9.89E-02	20	1526.52
373	61.19	162.11	2.19	6	1.96E-05	1.87E+00	25	2979.25
374	61.35	160.79	2.79	5	1.07E-05	1.13E+00	26	3292.8
375	61.52	138.79	2.81	5	5.20E-06	3.15E-01	23	1889.94
376	61.68	146.97	2.72	5	7.37E-06	7.59E-01	24	3214.57
377	61.84	172.97	2.47	5	1.99E-05	2.02E+00	27	3174.48
378	62.01	198.94	2.04	6	5.96E-05	5.73E+00	29	3001.54
379	62.17	208.97	2.06	6	7.35E-05	7.16E+00	30	3038.29
380	62.34	214.63	2.09	6	8.06E-05	7.93E+00	31	3070.66
381	62.5	217.5	2.11	6	8.35E-05	8.27E+00	31	3092.7
382	62.66	221.92	2.18	6	8.55E-05	8.61E+00	32	3143.08
383	62.83	223.47	2.17	6	8.83E-05	8.90E+00	32	3146.91
384	62.99	228.14	2.15	6	9.89E-05	9.97E+00	32	3148.48

385	63.16	237.36	2.13	6	1.22E-04	1.24E+01	33	3153.63
386	63.32	246.85	2.17	6	1.41E-04	1.44E+01	34	3199.02
387	63.48	260.4	2.19	6	1.78E-04	1.85E+01	36	3237.29
388	63.65	266.77	2.19	6	1.99E-04	2.07E+01	36	3252.46
389	63.81	265.4	2.18	6	1.95E-04	2.03E+01	36	3244.86
390	63.98	250.54	2.05	6	1.69E-04	1.70E+01	34	3141.07
391	64.14	236.05	1.99	6	1.34E-04	1.33E+01	33	3082.93
392	64.3	219.07	2.04	6	8.89E-05	8.77E+00	31	3078.04
393	64.47	206.06	2.06	6	6.46E-05	6.34E+00	29	3064.09
394	64.63	202.78	1.74	6	8.64E-05	7.91E+00	28	2859.94
395	64.8	209.18	1.84	6	8.79E-05	8.28E+00	29	2942.38
396	64.96	215.04	1.86	6	9.82E-05	9.33E+00	30	2966.01
397	65.12	226.47	1.86	6	1.24E-04	1.19E+01	31	2996.85
398	65.29	236.12	1.95	6	1.38E-04	1.35E+01	32	3068.98
399	65.45	234.41	1.99	6	1.26E-04	1.25E+01	32	3096.9
400	65.62	228.81	2.03	6	1.07E-04	1.07E+01	32	3108.85
401	65.78	224.5	2.03	6	9.78E-05	9.71E+00	31	3101.09
402	65.94	219.12	1.9	6	9.99E-05	9.64E+00	30	3013.39
403	66.11	218.15	1.97	6	8.98E-05	8.80E+00	30	3058.19
404	66.27	219.91	1.95	6	9.50E-05	9.28E+00	30	3052.24
405	66.44	224.13	2.18	6	8.10E-05	8.31E+00	31	3202.94
406	66.6	221.15	2.63	6	4.94E-05	5.47E+00	31	3455.2
407	66.77	200.05	2.84	6	2.56E-05	2.88E+00	29	3513.43
408	66.93	117.28	2.62	5	2.28E-06	1.16E-01	19	1585.1
409	67.09	55.17	2.14	3	8.66E-08	1.99E-03	10	715.5
410	67.26	37.93	1.36	3	3.57E-08	5.43E-04	7	474.33
411	67.42	36.28	1.3	3	3.12E-08	4.51E-04	7	451.56
412	67.59	29.67	1.57	3	8.12E-09	7.48E-05	6	287.81
413	67.75	35.39	1.82	3	1.43E-08	1.97E-04	7	429.95
414	67.91	43.83	1.66	3	4.77E-08	8.52E-04	8	557.52
415	68.08	40.09	1.6	3	3.35E-08	5.42E-04	8	504.87
416	68.24	30.86	1.32	3	1.36E-08	1.36E-04	6	312.79
417	68.41	29.8	1.19	3	1.37E-08	1.27E-04	6	288.18
418	68.57	31.51	1.29	3	1.55E-08	1.62E-04	6	327.53
419	68.73	26.56	1.61	3	4.36E-09	3.07E-05	6	220.01
420	68.9	33.67	1.8	3	1.12E-08	1.37E-04	7	379.95
421	69.06	48.45	1.93	3	5.51E-08	1.10E-03	9	622.33
422	69.23	56.71	2.23	3	8.53E-08	2.01E-03	10	737.58
423	69.39	60.51	2.15	4	1.24E-07	3.13E-03	11	790.42
424	69.55	67.62	2.04	4	2.36E-07	6.72E-03	12	889.43
425	69.72	64.77	1.99	4	1.98E-07	5.37E-03	11	848.26
426	69.88	50.29	2.12	3	5.23E-08	1.08E-03	9	645.15
427	70.05	40.55	2	3	2.11E-08	3.44E-04	8	508.7

428	70.21	40.78	1.53	3	3.63E-08	5.95E-04	8	511.66
429	70.37	34.58	1.48	3	1.74E-08	2.17E-04	7	389.83
430	70.54	34.13	1.55	3	1.48E-08	1.79E-04	7	377.52
431	70.7	36.99	1.7	3	1.81E-08	2.62E-04	7	452.03
432	70.87	39.54	2.04	3	1.75E-08	2.78E-04	8	494.14
433	71.03	43.8	2.48	3	1.92E-08	3.41E-04	9	553.66
434	71.19	43.33	2.77	3	1.45E-08	2.53E-04	9	547
435	71.36	59.1	2.74	3	6.28E-08	1.54E-03	11	767.52
436	71.52	69.18	2.74	4	1.29E-07	3.76E-03	12	908.08
437	71.69	82.48	2.73	4	3.06E-07	1.07E-02	14	1093.74
438	71.85	104.4	2.67	5	1.05E-06	4.69E-02	17	1400.23
439	72.01	123.56	1.92	5	5.03E-06	2.69E-01	18	1668.49
440	72.18	138.78	1.79	5	1.03E-05	9.35E-01	20	2840.51
441	72.34	141.62	1.52	5	1.59E-05	1.37E+00	20	2679.4
442	72.51	134.36	1.36	5	1.54E-05	1.26E+00	19	2552.21
443	72.67	114.97	1.54	5	5.45E-06	2.70E-01	17	1546.96
444	72.83	80.87	1.93	4	5.76E-07	1.97E-02	13	1069.32
445	73	47.37	1.81	3	4.79E-08	9.21E-04	9	600.19
446	73.16	35.33	1.56	3	1.54E-08	1.92E-04	7	388.73
447	73.33	51.93	2.01	3	5.97E-08	1.27E-03	9	663.97
448	73.49	67.32	2.25	4	1.58E-07	4.46E-03	11	879.32
449	73.65	57.6	2.43	3	6.53E-08	1.55E-03	10	743.06
450	73.82	55.45	2.08	3	7.46E-08	1.70E-03	10	712.91
451	73.98	58.36	1.92	4	1.11E-07	2.67E-03	10	753.62
452	74.15	53.11	1.54	4	1.08E-07	2.35E-03	9	679.95
453	74.31	48.49	1.11	4	1.27E-07	2.50E-03	8	615.17
454	74.48	38.76	0.92	4	6.09E-08	9.18E-04	7	471.12
455	74.64	26.89	0.65	3	1.82E-08	1.17E-04	5	200.35
456	74.8	20.75	0.7	3	4.13E-09	1.39E-05	4	105.04
457	74.97	21.96	0.82	3	4.16E-09	1.61E-05	4	121.02
458	75.13	27.96	0.82	3	1.47E-08	1.03E-04	5	218.85
459	75.3	25.82	0.72	3	1.21E-08	7.01E-05	5	180.09
460	75.46	21.07	0.47	3	8.68E-09	3.01E-05	4	108.29
461	75.62	18.94	0.38	3	6.76E-09	1.77E-05	3	81.92
462	75.79	19.04	0.39	3	6.66E-09	1.77E-05	3	82.82
463	75.95	19.8	0.34	3	9.98E-09	2.92E-05	3	91.52
464	76.12	20.28	0.42	3	8.00E-09	2.48E-05	4	97
465	76.28	21.29	0.56	3	6.48E-09	2.28E-05	4	109.66
466	76.44	24.4	0.74	3	8.38E-09	4.14E-05	4	154.05
467	76.61	25.23	0.81	3	8.33E-09	4.45E-05	5	166.78
468	76.77	25.84	0.9	3	7.80E-09	4.41E-05	5	176.39
469	76.94	28.33	0.88	3	1.31E-08	9.22E-05	5	219.63
470	77.1	29.16	0.99	3	1.20E-08	9.03E-05	5	234.74

471	77.26	28.3	0.97	3	1.07E-08	7.46E-05	5	217.87
472	77.43	27.06	0.87	3	1.03E-08	6.41E-05	5	195.03
473	77.59	25.77	0.65	3	1.33E-08	7.36E-05	4	172.76
474	77.76	24.31	0.61	3	1.09E-08	5.20E-05	4	149.21
475	77.92	23.61	0.62	3	9.02E-09	4.00E-05	4	138.4
476	78.08	25.49	0.77	3	9.10E-09	4.86E-05	5	166.9
477	78.25	28.41	0.96	3	1.07E-08	7.44E-05	5	216.54
478	78.41	30.53	1.7	3	5.32E-09	4.37E-05	6	256.38
479	78.58	32.48	2.89	3	2.87E-09	2.72E-05	7	295.9
480	78.74	58.07	3.91	3	2.20E-08	5.27E-04	11	746.78
481	78.9	86	4.9	3	8.27E-08	3.01E-03	14	1137.75
482	79.07	114.35	5.04	4	2.94E-07	1.45E-02	18	1534.45
483	79.23	129.57	5.04	4	5.44E-07	3.04E-02	19	1746.96
484	79.4	131.45	4.61	4	7.21E-07	4.09E-02	19	1772.81
485	79.56	122.23	2.98	5	1.40E-06	7.36E-02	18	1643.33
486	79.72	104.86	3.13	4	5.71E-07	2.56E-02	15	1399.73
487	79.89	90.58	3.13	4	2.70E-07	1.04E-02	14	1199.45
488	80.05	77.01	2.09	4	2.90E-07	9.38E-03	11	1009.96
489	80.22	62.2	1.54	4	1.84E-07	4.73E-03	9	802.21
490	80.38	43.02	1.46	3	3.56E-08	6.08E-04	7	533.55
491	80.54	35.91	1.48	3	1.44E-08	1.66E-04	6	361.2
492	80.71	36.57	1.56	3	1.41E-08	1.69E-04	6	376.09
493	80.87	37.65	1.52	3	1.71E-08	2.20E-04	7	401.24
494	81.04	63.23	1.71	4	1.59E-07	4.16E-03	9	816.21
495	81.2	53.63	1.86	3	6.24E-08	1.36E-03	9	681.55
496	81.36	36.68	0.84	3	4.29E-08	5.15E-04	6	375.06
497	81.53	31.35	1.15	3	1.12E-08	9.27E-05	5	259.19
498	81.69	29.14	1.47	3	4.88E-09	3.39E-05	5	217
499	81.86	40.02	2.16	3	1.13E-08	1.65E-04	7	455.53
500	82.02	58.48	2.91	3	3.80E-08	9.11E-04	10	749.37
501	82.19	63.91	3.06	3	5.20E-08	1.37E-03	11	825.46
502	82.35	54.9	2.71	3	3.25E-08	7.29E-04	9	699.32
503	82.51	53.61	3.04	3	2.29E-08	5.00E-04	9	681.2
504	82.68	61.71	3.04	3	4.40E-08	1.12E-03	10	794.54
505	82.84	76.54	2.15	4	2.41E-07	7.72E-03	11	1001.89
506	83.01	90.15	1.62	5	1.02E-06	3.89E-02	12	1191.8
507	83.17	102.71	2.75	4	6.23E-07	2.73E-02	14	1367.52
508	83.33	117.4	4.05	4	4.95E-07	2.49E-02	17	1572.98
509	83.5	132.48	5.21	4	4.93E-07	2.82E-02	19	1784.02
510	83.66	129.69	6.29	4	2.78E-07	1.55E-02	19	1745.11
511	83.83	113.06	6.69	3	1.27E-07	6.16E-03	17	1512.61
512	83.99	109.58	7.31	3	9.03E-08	4.23E-03	17	1463.68
513	84.15	146.95	7.94	4	2.88E-07	1.83E-02	22	1989.52

514	84.32	197.36	7.45	4	1.43E-06	1.24E-01	27	2692.78
515	84.48	197.94	5.51	5	3.10E-06	2.68E-01	26	2700.49
516	84.65	167.38	2.77	5	6.99E-06	8.24E-01	21	3679.62
517	84.81	154.29	3.12	5	3.49E-06	2.34E-01	20	2088.38
518	84.97	141.34	3.63	5	1.57E-06	9.59E-02	19	1906.66
519	85.14	135.93	3.4	5	1.50E-06	8.79E-02	18	1831.9
520	85.3	160.54	2.67	5	6.05E-06	7.01E-01	21	3616.94
521	85.47	178.5	1.92	6	2.15E-05	2.21E+00	22	3206.97
522	85.63	169.15	1.43	6	3.04E-05	2.78E+00	20	2849.76
523	85.79	144.57	1.84	5	8.00E-06	7.90E-01	18	3083.94
524	85.96	127.87	2.07	5	3.31E-06	1.82E-01	17	1717.71
525	86.12	119.03	2.25	5	1.90E-06	9.67E-02	16	1593.85
526	86.29	103.09	2.52	4	7.01E-07	3.08E-02	14	1370.51
527	86.45	65.88	2.82	3	6.24E-08	1.70E-03	10	849.46
528	86.61	43.64	2.84	3	8.67E-09	1.44E-04	8	520.44
529	86.78	47.41	3.91	3	7.09E-09	1.36E-04	9	599.59
530	86.94	60.05	6.19	3	8.50E-09	2.14E-04	11	786.68
531	87.11	154.46	7.96	4	3.44E-07	2.31E-02	22	2102.15
532	87.27	238.35	8.45	5	2.44E-06	2.55E-01	31	3262.94
533	87.43	225.32	7.55	5	2.46E-06	2.43E-01	30	3080.29
534	87.6	195.95	5.36	5	2.91E-06	2.49E-01	25	2668.75
535	87.76	177.59	3.59	5	4.69E-06	3.62E-01	22	2411.69
536	87.93	193.76	2.18	6	2.28E-05	2.52E+00	23	3447.71
537	88.09	139.25	2.22	5	4.09E-06	2.45E-01	17	1874.65
538	88.25	78.79	1.66	4	4.01E-07	1.32E-02	10	1028.09
539	88.42	51.05	1.32	4	7.58E-08	1.55E-03	7	639.67
540	88.58	35.86	1.23	3	1.54E-08	1.59E-04	6	321.53
541	88.75	35.33	2.41	3	3.95E-09	3.93E-05	6	310.34
542	88.91	43.91	3.43	3	5.67E-09	9.31E-05	8	512.33
543	89.07	58.59	3.55	3	2.11E-08	5.04E-04	10	746.53
544	89.24	76.31	2.6	4	1.35E-07	4.32E-03	11	994.84
545	89.4	54.32	2.9	3	2.21E-08	4.86E-04	9	686.78
546	89.57	50.54	5.07	3	4.93E-09	1.00E-04	9	635.27
547	89.73	104.08	6.3	3	8.83E-08	3.92E-03	16	1387.36
548	89.9	117.48	6.49	3	1.43E-07	7.24E-03	17	1577.73
549	90.06	131.42	5.83	4	2.99E-07	1.69E-02	18	1767.72
550	90.22	124.68	3.64	4	7.01E-07	3.75E-02	16	1668.93
551	90.39	98.1	2.43	4	5.13E-07	2.13E-02	13	1296.18
552	90.55	64.49	2.69	3	5.51E-08	1.46E-03	10	825.36
553	90.72	49.27	4.48	3	5.36E-09	1.05E-04	9	612.54
554	90.88	74.86	6.63	3	1.66E-08	5.18E-04	13	971.44
555	91.04	112.97	7.57	3	8.11E-08	3.91E-03	17	1504.86
556	91.21	119.31	6.72	3	1.34E-07	6.86E-03	17	1593.25

557	91.37	119.49	6.74	3	1.34E-07	6.86E-03	17	1596.13
558	91.54	116	6.9	3	1.11E-07	5.50E-03	17	1547.12
559	91.7	111.68	7.43	3	7.91E-08	3.76E-03	17	1486.37
560	91.86	95.72	7.12	3	4.30E-08	1.74E-03	15	1262.88
561	92.03	85.05	7.19	3	2.44E-08	8.70E-04	14	1113.5
562	92.19	126.03	8.53	3	9.90E-08	5.35E-03	18	1686.93
563	92.36	143.58	9.06	3	1.54E-07	9.54E-03	20	1932.66
564	92.52	136.6	8.76	3	1.33E-07	7.81E-03	19	1834.6
565	92.68	113.89	7.71	3	7.77E-08	3.78E-03	17	1516.67
566	92.85	98.32	6.47	3	5.87E-08	2.44E-03	15	1298.56
567	93.01	82.5	4.9	3	4.78E-08	1.65E-03	12	1077.23
568	93.18	68.44	3.35	3	4.40E-08	1.24E-03	10	880.25
569	93.34	58	2.7	3	3.11E-08	7.32E-04	9	734.21
570	93.5	55.33	2.65	3	2.58E-08	5.76E-04	8	696.79
571	93.67	53.58	2.46	3	2.54E-08	5.48E-04	8	672.29
572	93.83	50.73	2.13	3	2.60E-08	5.26E-04	8	632.38
573	94	40.27	1.53	3	1.56E-08	1.97E-04	6	394.06
574	94.16	30.93	1.32	3	5.38E-09	3.61E-05	5	209.8
575	94.32	26.73	1.23	3	3.03E-09	1.41E-05	4	145.6
576	94.49	32.79	1.18	3	8.76E-09	6.76E-05	5	240.69
577	94.65	34.6	1.36	3	8.86E-09	7.76E-05	5	273.24
578	94.82	33.46	1.44	3	6.69E-09	5.39E-05	5	251.57
579	94.98	31.19	1.6	3	3.80E-09	2.58E-05	5	211.84
580	95.14	43.71	1.73	3	1.81E-08	2.72E-04	7	470.13
581	95.31	41.46	1.85	3	1.22E-08	1.62E-04	6	415.44
582	95.47	41.25	1.75	3	1.32E-08	1.73E-04	6	409.7
583	95.64	42.89	1.94	3	1.30E-08	1.86E-04	7	447.28
584	95.8	47.31	3.52	3	6.45E-09	1.15E-04	8	559.16
585	95.96	76.95	4.48	3	3.91E-08	1.25E-03	11	998.53
586	96.13	98.15	6.03	3	6.31E-08	2.62E-03	14	1294
587	96.29	116.13	7.07	3	9.56E-08	4.74E-03	16	1546.51
588	96.46	157.16	7.19	4	3.65E-07	2.48E-02	20	2119.98
589	96.62	138.49	6.87	4	2.23E-07	1.33E-02	18	1858.45
590	96.78	98.66	5.76	3	7.03E-08	2.93E-03	14	1300.33
591	96.95	74.56	4.87	3	2.75E-08	8.48E-04	11	962.52
592	97.11	61.63	3.6	3	2.11E-08	5.27E-04	9	781.88
593	97.28	51.09	2.76	3	1.46E-08	2.97E-04	8	634.19
594	97.44	43.04	2.21	3	9.78E-09	1.38E-04	7	441.24
595	97.6	43.52	2.28	3	9.76E-09	1.42E-04	7	453.14
596	97.77	47.38	2.47	3	1.26E-08	2.22E-04	7	549.61
597	97.93	46.46	2.29	3	1.32E-08	2.22E-04	7	524.63
598	98.1	41.25	1.73	3	1.25E-08	1.59E-04	6	397.79
599	98.26	35.98	1.38	3	9.65E-09	8.91E-05	5	288.12

600	98.43	36.87	1.56	3	8.68E-09	8.48E-05	6	305.11
601	98.59	40.03	1.51	3	1.37E-08	1.62E-04	6	369.44
602	98.75	41.54	3.3	3	3.60E-09	4.64E-05	7	401.91
603	98.92	92.17	4.88	3	7.05E-08	2.73E-03	13	1210.25
604	99.08	151.18	5.41	4	5.66E-07	3.69E-02	18	2034.89
605	99.25	106.76	5.11	3	1.23E-07	5.55E-03	14	1411.71
606	99.41	87.66	6.09	3	3.41E-08	1.25E-03	13	1143.72
607	99.57	98.99	5.75	3	6.73E-08	2.81E-03	14	1303.16
608	99.74	178.69	6.28	4	9.04E-07	7.00E-02	21	2418.93
609	99.9	229.14	6.61	5	2.79E-06	2.79E-01	26	3124.57
610	100.07	278.16	7.3	5	5.69E-06	6.94E-01	31	3810.25
611	100.23	321.71	7.58	5	1.06E-05	2.26E+00	36	6633.44

Dr (%)	Friction angle (°)	Estimations							
		Es (tsf)	Go (tsf)	Nkt	Su (tsf)	Su ratio	Kocr	OCR	Vs (ft/s)
59	41	63.76	79.91	0	0	0	0.33	0	206.27
0	0	0	51.26	14	0.15	7.72	0.5	28.1	165.21
0	0	0	62.74	14	0.18	6.12	0.49	24.24	182.76
42	37	79.91	100.15	0	0	0	0.33	0	230.91
45	36	101.8	127.6	0	0	0	0.33	0	260.64
42	37	103.9	130.22	0	0	0	0.33	0	263.31
43	38	122.76	153.86	0	0	0	0.33	0	286.22
51	40	188.65	236.44	0	0	0	0.33	0	354.81
56	40	238.16	298.49	0	0	0	0.33	0	398.66
54	41	245.2	307.32	0	0	0	0.33	0	404.51
64	42	349.93	438.58	0	0	0	0.33	0	483.23
71	43	446.15	559.17	0	0	0	0.33	0	545.63
69	43	460.46	577.11	0	0	0	0.33	0	554.32
64	43	440.27	551.8	0	0	0	0.33	0	542.03
68	43	496.85	622.72	0	0	0	0.33	0	575.81
71	43	549.79	689.07	0	0	0	0.33	0	605.71
70	43	564.44	707.43	0	0	0	0.33	0	613.72
66	43	552.12	691.99	0	0	0	0.33	0	606.99
67	43	567.37	711.11	0	0	0	0.33	0	615.32
60	42	499.46	625.98	0	0	0	0.33	0	577.31
63	42	546.72	685.22	0	0	0	0.33	0	604.01
68	42	604.29	757.37	0	0	0	0.33	0	635.02
63	42	557.18	698.34	0	0	0	0.33	0	609.77
0	0	0	602.33	14	2.36	9.91	0.6	59.06	566.3
0	0	0	545.66	14	1.66	6.7	0.52	38.45	539
0	0	0	593.79	14	1.45	5.63	0.46	31.71	562.27
0	0	0	859.3	14	3.81	14.22	0.66	90.89	676.4
68	44	781.33	979.27	0	0	0	0.33	0	722.07
64	43	729.49	914.3	0	0	0	0.33	0	697.71
60	42	662.14	829.88	0	0	0	0.33	0	664.72
60	42	636.25	797.43	0	0	0	0.33	0	651.59
54	40	537.17	673.25	0	0	0	0.33	0	598.71
46	39	441.29	553.09	0	0	0	0.33	0	542.66
0	0	0	466.72	14	1.6	4.76	0.55	29.46	498.49
0	0	0	419.99	14	1.36	3.91	0.53	23.91	472.88
0	0	0	401.41	14	1.24	3.47	0.51	21.04	462.3
0	0	0	375.05	14	1.08	2.96	0.49	17.63	446.86
0	0	0	345.08	14	0.94	2.49	0.47	14.61	428.64
0	0	0	320.13	14	0.82	2.11	0.46	12.23	412.85
0	0	0	295.12	14	0.73	1.85	0.45	10.66	396.39

0	0	0	277.54	14	0.67	1.66	0.45	9.54	384.41
0	0	0	271.98	14	0.64	1.54	0.44	8.79	380.54
0	0	0	275.36	14	0.66	1.54	0.44	8.9	382.89
0	0	0	282.97	14	0.69	1.58	0.45	9.26	388.15
0	0	0	279.1	14	0.73	1.65	0.48	10.04	385.49
0	0	0	265.13	14	0.71	1.56	0.49	9.74	375.71
0	0	0	251.33	14	0.66	1.42	0.49	8.93	365.8
0	0	0	247.8	14	0.62	1.3	0.47	7.96	363.23
0	0	0	267.05	14	0.62	1.28	0.44	7.49	377.08
0	0	0	291.97	14	0.69	1.38	0.44	8.11	394.28
0	0	0	311.66	14	0.81	1.6	0.47	9.8	407.35
0	0	0	342.58	14	0.9	1.75	0.47	10.79	427.08
0	0	0	380.09	14	0.98	1.86	0.46	11.26	449.86
0	0	0	421.31	14	1.09	2.04	0.46	12.35	473.62
0	0	0	462.6	14	1.2	2.2	0.46	13.3	496.29
0	0	0	503.86	14	1.36	2.46	0.47	15.14	517.94
0	0	0	547.71	14	1.54	2.72	0.48	17.11	540.02
0	0	0	585.56	14	1.79	3.11	0.51	20.36	558.36
33	37	400.81	502.35	0	0	0	0.33	0	517.17
0	0	0	521.6	14	1.63	2.74	0.52	18.33	526.99
0	0	0	537.48	14	1.62	2.72	0.51	17.87	534.95
0	0	0	542.11	14	1.81	3	0.55	20.91	537.25
33	37	424.57	532.13	0	0	0	0.33	0	532.28
34	37	437.31	548.1	0	0	0	0.33	0	540.2
0	0	0	553.14	14	1.87	3.03	0.55	21.3	542.68
0	0	0	562.83	14	1.8	2.88	0.53	19.65	547.42
0	0	0	543.62	14	1.83	2.91	0.55	20.52	538
0	0	0	575.12	14	1.77	2.81	0.52	18.82	553.36
0	0	0	576.78	14	1.73	2.71	0.51	17.93	554.16
37	37	473.19	593.06	0	0	0	0.33	0	561.93
42	35	436.17	546.67	0	0	0	0.33	0	539.5
43	35	409.39	513.1	0	0	0	0.33	0	522.67
44	35	433.22	542.97	0	0	0	0.33	0	537.67
45	36	450.31	564.39	0	0	0	0.33	0	548.17
44	36	450.15	564.19	0	0	0	0.33	0	548.08
44	35	445.33	558.15	0	0	0	0.33	0	545.14
44	35	445.86	558.82	0	0	0	0.33	0	545.46
45	36	461.42	578.32	0	0	0	0.33	0	554.9
46	36	472.54	592.25	0	0	0	0.33	0	561.54
46	36	478.17	599.31	0	0	0	0.33	0	564.88
46	36	492	616.64	0	0	0	0.33	0	572.99
47	36	502.68	630.02	0	0	0	0.33	0	579.17
46	36	504.42	632.21	0	0	0	0.33	0	580.18

46	36	502.05	629.24	0	0	0	0.33	0	578.81
47	36	506.71	635.08	0	0	0	0.33	0	581.49
48	36	519.07	650.57	0	0	0	0.33	0	588.54
49	37	534.17	669.5	0	0	0	0.33	0	597.04
51	37	544.81	682.82	0	0	0	0.33	0	602.95
52	37	527.6	661.26	0	0	0	0.33	0	593.35
54	37	569.38	713.62	0	0	0	0.33	0	616.4
57	38	605.88	759.36	0	0	0	0.33	0	635.85
58	38	621.33	778.74	0	0	0	0.33	0	643.91
58	38	623.21	781.09	0	0	0	0.33	0	644.88
57	38	616.6	772.81	0	0	0	0.33	0	641.45
57	38	619.74	776.74	0	0	0	0.33	0	643.08
58	38	636.97	798.33	0	0	0	0.33	0	651.96
60	38	662.82	830.74	0	0	0	0.33	0	665.06
61	39	683.04	856.08	0	0	0	0.33	0	675.13
63	39	707.18	886.34	0	0	0	0.33	0	686.96
64	39	717.11	898.77	0	0	0	0.33	0	691.76
64	39	714.8	895.88	0	0	0	0.33	0	690.64
64	39	713.68	894.48	0	0	0	0.33	0	690.1
65	39	724.98	908.64	0	0	0	0.33	0	695.55
66	40	731.29	916.55	0	0	0	0.33	0	698.56
66	40	729	913.68	0	0	0	0.33	0	697.47
65	39	724.12	907.56	0	0	0	0.33	0	695.13
65	40	735.96	922.41	0	0	0	0.33	0	700.8
67	40	757.13	948.93	0	0	0	0.33	0	710.8
67	40	778.56	975.79	0	0	0	0.33	0	720.79
69	40	810.71	1016.09	0	0	0	0.33	0	735.52
70	40	833.87	1045.12	0	0	0	0.33	0	745.96
69	40	802.23	1005.47	0	0	0	0.33	0	731.67
68	40	786.7	986	0	0	0	0.33	0	724.55
68	40	804.72	1008.59	0	0	0	0.33	0	732.8
69	40	819.5	1027.11	0	0	0	0.33	0	739.5
72	41	858.19	1075.59	0	0	0	0.33	0	756.75
74	41	887.6	1112.46	0	0	0	0.33	0	769.61
76	42	918.02	1150.58	0	0	0	0.33	0	782.69
78	42	968.82	1214.26	0	0	0	0.33	0	804.05
80	42	965.83	1210.51	0	0	0	0.33	0	802.81
80	42	991.85	1243.12	0	0	0	0.33	0	813.55
80	42	1017.58	1275.37	0	0	0	0.33	0	824.04
82	43	1071.52	1342.97	0	0	0	0.33	0	845.6
81	42	1089.51	1365.52	0	0	0	0.33	0	852.66
78	42	1063.74	1333.22	0	0	0	0.33	0	842.52
76	42	1027.01	1287.18	0	0	0	0.33	0	827.85

75	41	1003.65	1257.9	0	0	0	0.33	0	818.38
73	41	987.93	1238.21	0	0	0	0.33	0	811.95
76	42	1007.85	1263.17	0	0	0	0.33	0	820.09
79	42	1045.74	1310.66	0	0	0	0.33	0	835.36
82	43	1142.39	1431.79	0	0	0	0.33	0	873.11
86	43	1235.8	1548.87	0	0	0	0.33	0	908.11
89	44	1328.82	1665.46	0	0	0	0.33	0	941.66
90	44	1376.78	1725.56	0	0	0	0.33	0	958.51
90	44	1386.69	1737.99	0	0	0	0.33	0	961.95
90	44	1399.39	1753.9	0	0	0	0.33	0	966.35
89	44	1354.82	1698.04	0	0	0	0.33	0	950.83
88	44	1406.15	1762.38	0	0	0	0.33	0	968.68
86	43	1395.32	1748.8	0	0	0	0.33	0	964.94
84	43	1420.08	1779.83	0	0	0	0.33	0	973.46
83	43	1416.1	1774.85	0	0	0	0.33	0	972.1
83	43	1411.35	1768.89	0	0	0	0.33	0	970.46
82	43	1389.16	1741.07	0	0	0	0.33	0	962.81
82	43	1350.03	1692.04	0	0	0	0.33	0	949.15
81	43	1302.19	1632.07	0	0	0	0.33	0	932.18
81	43	1237.81	1551.39	0	0	0	0.33	0	908.85
80	42	1223.19	1533.06	0	0	0	0.33	0	903.46
78	42	1190.73	1492.39	0	0	0	0.33	0	891.4
79	42	1184.45	1484.51	0	0	0	0.33	0	889.04
83	43	1282.61	1607.53	0	0	0	0.33	0	925.14
86	43	1430.36	1792.72	0	0	0	0.33	0	976.98
86	43	1471.8	1844.65	0	0	0	0.33	0	991.03
83	43	1378.74	1728.02	0	0	0	0.33	0	959.19
80	42	1302.77	1632.8	0	0	0	0.33	0	932.39
80	42	1320.45	1654.96	0	0	0	0.33	0	938.69
80	42	1378.7	1727.97	0	0	0	0.33	0	959.17
79	42	1435.09	1798.65	0	0	0	0.33	0	978.6
80	43	1453.37	1821.56	0	0	0	0.33	0	984.81
80	43	1469.91	1842.29	0	0	0	0.33	0	990.39
78	42	1452.24	1820.14	0	0	0	0.33	0	984.42
78	42	1406.36	1762.64	0	0	0	0.33	0	968.75
80	43	1446.82	1813.35	0	0	0	0.33	0	982.59
83	43	1509.81	1892.3	0	0	0	0.33	0	1003.75
85	43	1502.55	1883.19	0	0	0	0.33	0	1001.33
86	43	1511.05	1893.85	0	0	0	0.33	0	1004.16
86	43	1496.73	1875.91	0	0	0	0.33	0	999.39
86	43	1486.13	1862.61	0	0	0	0.33	0	995.84
85	43	1493.06	1871.3	0	0	0	0.33	0	998.16
84	43	1505.09	1886.38	0	0	0	0.33	0	1002.18

84	43	1529.92	1917.51	0	0	0	0.33	0	1010.41
82	43	1546.25	1937.97	0	0	0	0.33	0	1015.79
80	43	1512.69	1895.91	0	0	0	0.33	0	1004.7
77	42	1447	1813.58	0	0	0	0.33	0	982.65
74	42	1398.38	1752.63	0	0	0	0.33	0	966
73	42	1387.49	1738.99	0	0	0	0.33	0	962.23
74	42	1424.42	1785.27	0	0	0	0.33	0	974.95
73	42	1408.5	1765.32	0	0	0	0.33	0	969.49
72	42	1391.97	1744.6	0	0	0	0.33	0	963.78
71	41	1366.2	1712.31	0	0	0	0.33	0	954.82
68	41	1279.03	1603.05	0	0	0	0.33	0	923.85
64	40	1129.9	1416.14	0	0	0	0.33	0	868.33
62	40	1064.71	1334.44	0	0	0	0.33	0	842.91
63	40	1065.68	1335.65	0	0	0	0.33	0	843.29
63	40	1127.87	1413.6	0	0	0	0.33	0	867.55
65	40	1204.25	1509.33	0	0	0	0.33	0	896.44
66	40	1239.65	1553.7	0	0	0	0.33	0	909.52
65	40	1234.43	1547.15	0	0	0	0.33	0	907.6
65	40	1177.11	1475.31	0	0	0	0.33	0	886.28
66	40	1152.46	1444.41	0	0	0	0.33	0	876.95
66	40	1095.39	1372.89	0	0	0	0.33	0	854.96
63	40	1058.69	1326.89	0	0	0	0.33	0	840.52
60	39	1010.61	1266.63	0	0	0	0.33	0	821.21
57	39	969.19	1214.72	0	0	0	0.33	0	804.21
56	38	961.98	1205.68	0	0	0	0.33	0	801.21
55	38	957.04	1199.49	0	0	0	0.33	0	799.15
56	38	975.21	1222.26	0	0	0	0.33	0	806.7
58	39	1006.79	1261.84	0	0	0	0.33	0	819.66
58	39	1012.02	1268.4	0	0	0	0.33	0	821.79
57	39	1010.43	1266.41	0	0	0	0.33	0	821.14
58	39	1024.23	1283.7	0	0	0	0.33	0	826.72
60	39	1061.2	1330.04	0	0	0	0.33	0	841.51
64	40	1130.05	1416.33	0	0	0	0.33	0	868.39
67	40	1182.06	1481.51	0	0	0	0.33	0	888.14
70	41	1237.9	1551.51	0	0	0	0.33	0	908.88
71	41	1282.94	1607.96	0	0	0	0.33	0	925.27
72	41	1310.57	1642.58	0	0	0	0.33	0	935.17
71	41	1312.42	1644.9	0	0	0	0.33	0	935.84
70	41	1265.14	1585.65	0	0	0	0.33	0	918.82
69	41	1212.59	1519.79	0	0	0	0.33	0	899.54
68	40	1090.59	1366.87	0	0	0	0.33	0	853.09
68	40	1053.58	1320.49	0	0	0	0.33	0	838.49
67	40	999.05	1252.14	0	0	0	0.33	0	816.5

65	40	1017.61	1275.41	0	0	0	0.33	0	824.05
64	39	1056.64	1324.33	0	0	0	0.33	0	839.71
60	39	1044.19	1308.72	0	0	0	0.33	0	834.74
57	38	988.97	1239.5	0	0	0	0.33	0	812.37
55	38	948.78	1189.14	0	0	0	0.33	0	795.69
54	38	935.67	1172.71	0	0	0	0.33	0	790.18
55	38	865.49	1084.74	0	0	0	0.33	0	759.96
58	38	944.92	1184.3	0	0	0	0.33	0	794.07
62	39	1063.6	1333.05	0	0	0	0.33	0	842.47
65	40	1186.76	1487.41	0	0	0	0.33	0	889.91
67	40	1297.6	1626.33	0	0	0	0.33	0	930.54
67	41	1355.85	1699.34	0	0	0	0.33	0	951.19
68	41	1382.6	1732.86	0	0	0	0.33	0	960.53
69	41	1421.32	1781.39	0	0	0	0.33	0	973.89
70	41	1459.98	1829.84	0	0	0	0.33	0	987.04
72	41	1509.77	1892.24	0	0	0	0.33	0	1003.73
71	41	1512.15	1895.23	0	0	0	0.33	0	1004.53
70	41	1479.94	1854.86	0	0	0	0.33	0	993.77
68	41	1429.55	1791.7	0	0	0	0.33	0	976.7
66	40	1377.08	1725.94	0	0	0	0.33	0	958.61
65	40	1381.42	1731.38	0	0	0	0.33	0	960.12
65	40	1400.6	1755.42	0	0	0	0.33	0	966.76
66	41	1450.33	1817.74	0	0	0	0.33	0	983.78
64	40	1468.29	1840.26	0	0	0	0.33	0	989.85
64	41	1532.43	1920.65	0	0	0	0.33	0	1011.24
62	40	1430.22	1792.55	0	0	0	0.33	0	976.93
61	40	1308.91	1640.5	0	0	0	0.33	0	934.58
61	40	1238.36	1552.07	0	0	0	0.33	0	909.05
61	40	1232.58	1544.83	0	0	0	0.33	0	906.92
63	40	1202.95	1507.7	0	0	0	0.33	0	895.96
64	40	1209.41	1515.8	0	0	0	0.33	0	898.36
65	40	1182.9	1482.56	0	0	0	0.33	0	888.46
64	40	1159.3	1452.99	0	0	0	0.33	0	879.55
63	39	1135.6	1423.29	0	0	0	0.33	0	870.52
60	39	1077.75	1350.78	0	0	0	0.33	0	848.05
55	38	983.19	1232.27	0	0	0	0.33	0	809.99
51	37	915.87	1147.89	0	0	0	0.33	0	781.77
50	37	930.25	1165.91	0	0	0	0.33	0	787.88
47	37	1007.28	1262.46	0	0	0	0.33	0	819.86
47	37	1056.5	1324.15	0	0	0	0.33	0	839.65
54	38	1135.27	1422.87	0	0	0	0.33	0	870.39
64	39	1059.31	1327.66	0	0	0	0.33	0	840.76
71	41	1208.69	1514.9	0	0	0	0.33	0	898.09

75	42	1278.73	1602.67	0	0	0	0.33	0	923.74
79	42	1363.36	1708.74	0	0	0	0.33	0	953.82
80	42	1428.98	1790.99	0	0	0	0.33	0	976.51
80	42	1415.65	1774.28	0	0	0	0.33	0	971.94
81	42	1454.47	1822.94	0	0	0	0.33	0	985.18
81	43	1490.15	1867.65	0	0	0	0.33	0	997.19
82	43	1583.58	1984.76	0	0	0	0.33	0	1027.98
83	43	1677.78	2102.82	0	0	0	0.33	0	1058.11
83	43	1738.8	2179.29	0	0	0	0.33	0	1077.18
82	43	1740.44	2181.35	0	0	0	0.33	0	1077.69
81	43	1713.72	2147.86	0	0	0	0.33	0	1069.38
81	42	1678.35	2103.54	0	0	0	0.33	0	1058.29
81	43	1670.27	2093.41	0	0	0	0.33	0	1055.74
81	42	1673.66	2097.65	0	0	0	0.33	0	1056.81
80	42	1671.91	2095.46	0	0	0	0.33	0	1056.26
80	42	1668.79	2091.55	0	0	0	0.33	0	1055.27
81	42	1620.93	2031.56	0	0	0	0.33	0	1040.03
82	43	1532.18	1920.34	0	0	0	0.33	0	1011.16
82	43	1580.76	1981.22	0	0	0	0.33	0	1027.06
73	41	1591.28	1994.4	0	0	0	0.33	0	1030.47
80	42	1764.8	2211.88	0	0	0	0.33	0	1085.2
76	42	1788.16	2241.16	0	0	0	0.33	0	1092.36
73	42	1738.66	2179.12	0	0	0	0.33	0	1077.14
73	42	1687.99	2115.62	0	0	0	0.33	0	1061.32
76	42	1686.39	2113.61	0	0	0	0.33	0	1060.82
78	42	1647.04	2064.29	0	0	0	0.33	0	1048.37
79	42	1614.7	2023.76	0	0	0	0.33	0	1038.03
79	42	1569.84	1967.54	0	0	0	0.33	0	1023.51
80	42	1526.82	1913.61	0	0	0	0.33	0	1009.38
80	42	1546.46	1938.24	0	0	0	0.33	0	1015.86
80	42	1570.69	1968.59	0	0	0	0.33	0	1023.78
80	42	1567.6	1964.73	0	0	0	0.33	0	1022.78
80	42	1638.46	2053.54	0	0	0	0.33	0	1045.64
80	42	1653.92	2072.91	0	0	0	0.33	0	1050.56
80	42	1632.17	2045.65	0	0	0	0.33	0	1043.63
80	42	1603.09	2009.21	0	0	0	0.33	0	1034.29
80	42	1570.85	1968.79	0	0	0	0.33	0	1023.83
78	42	1543.21	1934.16	0	0	0	0.33	0	1014.79
76	42	1478.4	1852.93	0	0	0	0.33	0	993.25
76	42	1437.67	1801.88	0	0	0	0.33	0	979.47
76	42	1406.91	1763.33	0	0	0	0.33	0	968.94
77	42	1348.82	1690.52	0	0	0	0.33	0	948.72
77	42	1221.02	1530.35	0	0	0	0.33	0	902.66

77	42	1069.54	1340.49	0	0	0	0.33	0	844.81
81	42	1034.57	1296.66	0	0	0	0.33	0	830.89
81	43	1053.33	1320.18	0	0	0	0.33	0	838.39
81	43	1103.72	1383.33	0	0	0	0.33	0	858.21
80	42	1212.1	1519.17	0	0	0	0.33	0	899.36
79	42	1290.65	1617.61	0	0	0	0.33	0	928.04
76	42	1308.2	1639.62	0	0	0	0.33	0	934.33
72	41	1252.43	1569.71	0	0	0	0.33	0	914.2
71	41	1204.79	1510	0	0	0	0.33	0	896.64
69	40	1205.58	1511	0	0	0	0.33	0	896.94
69	40	1366.54	1712.73	0	0	0	0.33	0	954.94
62	40	1515.16	1899	0	0	0	0.33	0	1005.52
47	38	1309.29	1640.98	0	0	0	0.33	0	934.72
35	37	1091.68	1368.23	0	0	0	0.33	0	853.51
0	0	0	1133	14	3.31	1.83	0.51	13.47	776.68
0	0	0	994.12	14	2.61	1.44	0.48	9.82	727.53
0	0	0	1038.01	14	2.47	1.36	0.44	8.5	743.41
0	0	0	1025.97	14	2.57	1.41	0.46	9.22	739.09
0	0	0	1043.82	14	2.81	1.54	0.48	10.69	745.49
0	0	0	1057.36	14	3.08	1.69	0.51	12.53	750.31
0	0	0	1059.7	14	3.16	1.72	0.52	13.08	751.14
0	0	0	1085.4	14	3.28	1.78	0.52	13.64	760.19
0	0	0	1094.82	14	3.46	1.87	0.54	14.9	763.49
0	0	0	1112.03	14	3.55	1.92	0.54	15.34	769.46
0	0	0	1180.77	14	3.54	1.91	0.52	14.37	792.89
0	0	0	1210.6	14	3.56	1.91	0.51	14.12	802.84
0	0	0	1193.82	14	3.23	1.73	0.48	11.93	797.26
0	0	0	1126.82	14	2.78	1.49	0.45	9.51	774.56
0	0	0	1057.43	14	2.47	1.32	0.44	8.08	750.34
0	0	0	987.21	14	2.22	1.18	0.43	7.11	724.99
0	0	0	1009.76	14	2.07	1.1	0.4	6.16	733.23
0	0	0	978.35	14	1.98	1.05	0.4	5.87	721.73
0	0	0	973.59	14	1.96	1.03	0.4	5.77	719.98
0	0	0	958.58	14	1.97	1.04	0.4	5.89	714.41
0	0	0	1026.98	14	2	1.05	0.39	5.7	739.45
0	0	0	1034	14	2.18	1.14	0.41	6.55	741.98
0	0	0	1136.51	14	2.41	1.26	0.41	7.19	777.89
0	0	0	1176.51	14	2.19	1.14	0.37	5.95	791.46
0	0	0	1383.03	14	2.83	1.48	0.39	8.16	858.11
0	0	0	1664.41	14	3.74	1.94	0.42	11.36	941.37
0	0	0	1751.63	14	4.2	2.18	0.44	13.3	965.72
0	0	0	1713.08	14	4.28	2.21	0.45	13.97	955.03
0	0	0	1500.21	14	3.88	2	0.46	13.07	893.73

0	0	0	1278.86	14	3.18	1.63	0.45	10.41	825.17
0	0	0	887.95	14	2.21	1.13	0.47	7.56	687.58
0	0	0	839.49	14	1.76	0.9	0.42	5.3	668.56
0	0	0	858.08	14	1.67	0.85	0.4	4.71	675.92
0	0	0	932.76	14	1.79	0.91	0.39	4.96	704.72
0	0	0	1026.56	14	2.11	1.07	0.4	6.07	739.3
0	0	0	1038.77	14	2.26	1.15	0.42	6.73	743.69
0	0	0	1054.28	14	2.35	1.18	0.43	7.06	749.22
0	0	0	1027.22	14	2.37	1.19	0.44	7.32	739.54
0	0	0	1010.14	14	2.17	1.09	0.42	6.37	733.36
0	0	0	1068.06	14	1.86	0.93	0.36	4.71	754.1
0	0	0	1234.47	14	1.85	0.93	0.33	4.22	810.72
0	0	0	1384.13	14	2.33	1.16	0.35	5.68	858.46
0	0	0	1516.93	14	2.98	1.48	0.38	7.99	898.69
0	0	0	1502.12	14	3.46	1.72	0.43	10.25	894.3
0	0	0	1538.37	14	3.84	1.9	0.45	12.07	905.02
0	0	0	1619.97	14	3.52	1.74	0.41	9.97	928.72
0	0	0	1631.15	14	3.31	1.63	0.39	8.96	931.92
0	0	0	1663.66	14	4.06	2	0.44	12.36	941.16
0	0	0	1683.77	14	5.49	2.69	0.53	21.4	946.83
40	38	1373.13	1720.98	0	0	0	0.33	0	957.23
45	37	1324.93	1660.58	0	0	0	0.33	0	940.28
49	38	1428.07	1789.85	0	0	0	0.33	0	976.2
52	38	1461.82	1832.15	0	0	0	0.33	0	987.67
53	38	1344.34	1684.91	0	0	0	0.33	0	947.15
53	38	1271.82	1594.02	0	0	0	0.33	0	921.25
50	38	1390.08	1742.23	0	0	0	0.33	0	963.12
45	39	1614.7	2023.76	0	0	0	0.33	0	1038.03
0	0	0	2104.55	14	7.28	3.5	0.55	29.1	1058.55
0	0	0	2075.74	14	5.89	2.82	0.48	19.81	1051.27
41	38	1546.81	1938.67	0	0	0	0.33	0	1015.97
51	38	1489.63	1867	0	0	0	0.33	0	997.01
50	39	1646.4	2063.49	0	0	0	0.33	0	1048.17
46	38	1614.4	2023.38	0	0	0	0.33	0	1037.93
48	38	1607.28	2014.46	0	0	0	0.33	0	1035.64
53	39	1587.24	1989.34	0	0	0	0.33	0	1029.16
58	39	1500.77	1880.96	0	0	0	0.33	0	1000.74
59	39	1519.14	1903.99	0	0	0	0.33	0	1006.84
60	39	1535.33	1924.28	0	0	0	0.33	0	1012.19
61	39	1546.35	1938.09	0	0	0	0.33	0	1015.82
61	39	1571.54	1969.66	0	0	0	0.33	0	1024.06
61	39	1573.46	1972.07	0	0	0	0.33	0	1024.69
62	40	1574.24	1973.05	0	0	0	0.33	0	1024.94

64	40	1576.82	1976.28	0	0	0	0.33	0	1025.78
65	40	1599.51	2004.72	0	0	0	0.33	0	1033.13
67	40	1618.65	2028.7	0	0	0	0.33	0	1039.3
68	40	1626.23	2038.21	0	0	0	0.33	0	1041.73
68	40	1622.43	2033.45	0	0	0	0.33	0	1040.51
66	40	1570.53	1968.4	0	0	0	0.33	0	1023.73
63	40	1541.47	1931.97	0	0	0	0.33	0	1014.21
60	39	1539.02	1928.9	0	0	0	0.33	0	1013.41
58	39	1532.04	1920.16	0	0	0	0.33	0	1011.11
58	39	1429.97	1792.23	0	0	0	0.33	0	976.85
59	39	1471.19	1843.89	0	0	0	0.33	0	990.83
60	39	1483	1858.7	0	0	0	0.33	0	994.8
62	39	1498.42	1878.03	0	0	0	0.33	0	999.96
63	40	1534.49	1923.23	0	0	0	0.33	0	1011.92
63	39	1548.45	1940.72	0	0	0	0.33	0	1016.51
62	39	1554.43	1948.21	0	0	0	0.33	0	1018.47
61	39	1550.55	1943.35	0	0	0	0.33	0	1017.2
60	39	1506.69	1888.39	0	0	0	0.33	0	1002.71
60	39	1529.09	1916.46	0	0	0	0.33	0	1010.14
60	39	1526.12	1912.74	0	0	0	0.33	0	1009.15
60	39	1601.47	2007.18	0	0	0	0.33	0	1033.77
59	39	1727.6	2165.26	0	0	0	0.33	0	1073.7
55	39	1756.71	2201.75	0	0	0	0.33	0	1082.71
40	38	1572.07	1970.32	0	0	0	0.33	0	1024.23
0	0	0	1606.7	14	3.65	1.61	0.42	9.53	924.91
0	0	0	1250.4	14	2.42	1.07	0.39	5.75	815.93
0	0	0	1220	14	2.3	1.01	0.38	5.38	805.95
0	0	0	1236.46	14	1.83	0.8	0.32	3.63	811.37
0	0	0	1364.96	14	2.24	0.98	0.34	4.72	852.49
0	0	0	1394.58	14	2.84	1.24	0.4	6.89	861.69
0	0	0	1346.28	14	2.58	1.12	0.38	5.98	846.64
0	0	0	1179.21	14	1.92	0.83	0.34	4.01	792.37
0	0	0	1130.94	14	1.84	0.8	0.35	3.87	775.98
0	0	0	1180.96	14	1.96	0.85	0.35	4.17	792.95
0	0	0	1218.67	14	1.61	0.7	0.3	2.94	805.51
0	0	0	1350.75	14	2.12	0.91	0.33	4.28	848.04
0	0	0	1516.89	14	3.18	1.37	0.4	7.69	898.68
0	0	0	1661.06	14	3.76	1.62	0.42	9.54	940.42
0	0	0	1664.7	14	4.03	1.73	0.44	10.67	941.45
0	0	0	1666.12	14	4.54	1.94	0.48	13.22	941.85
0	0	0	1640.66	14	4.33	1.85	0.47	12.24	934.63
0	0	0	1587.15	14	3.29	1.4	0.4	7.83	919.26
0	0	0	1474.55	14	2.6	1.1	0.36	5.55	886.05

0	0	0	1344.77	14	2.61	1.11	0.39	5.97	846.16
0	0	0	1275.71	14	2.17	0.92	0.35	4.54	824.15
0	0	0	1293.65	14	2.14	0.9	0.35	4.38	829.92
0	0	0	1366.49	14	2.34	0.99	0.35	4.89	852.97
0	0	0	1481.43	14	2.52	1.06	0.35	5.22	888.12
0	0	0	1632.91	14	2.82	1.19	0.35	5.89	932.42
0	0	0	1698.17	14	2.79	1.17	0.34	5.62	950.87
0	0	0	1826.97	14	3.92	1.64	0.41	9.3	986.27
0	0	0	1896.83	14	4.63	1.93	0.44	11.95	1004.95
0	0	0	1954.79	14	5.58	2.32	0.49	16.38	1020.19
36	38	1598.78	2003.81	0	0	0	0.33	0	1032.9
41	37	1434	1797.28	0	0	0	0.33	0	978.22
44	37	1420.25	1780.05	0	0	0	0.33	0	973.52
45	37	1339.7	1679.09	0	0	0	0.33	0	945.51
43	36	1276.11	1599.39	0	0	0	0.33	0	922.8
39	36	1309.96	1641.82	0	0	0	0.33	0	934.96
0	0	0	1704.25	14	5.46	2.24	0.53	17.73	952.57
0	0	0	1500.2	14	3.06	1.26	0.4	6.97	893.73
0	0	0	1324.89	14	2.2	0.9	0.35	4.39	839.89
0	0	0	1594.71	14	3.39	1.38	0.41	7.86	921.45
0	0	0	1770.5	14	4.49	1.83	0.45	11.63	970.91
0	0	0	1756.04	14	3.79	1.54	0.41	8.82	966.93
0	0	0	1644.9	14	3.64	1.48	0.42	8.61	935.84
0	0	0	1619.46	14	3.85	1.56	0.44	9.54	928.57
0	0	0	1467.39	14	3.47	1.4	0.44	8.63	883.9
0	0	0	1289.1	14	3.14	1.27	0.46	8.08	828.46
0	0	0	1146.21	14	2.44	0.98	0.42	5.79	781.2
0	0	0	930.69	14	1.59	0.64	0.37	3.32	703.93
0	0	0	882.37	14	1.16	0.46	0.31	1.99	685.42
0	0	0	946.75	14	1.24	0.5	0.31	2.13	709.98
0	0	0	1014.65	14	1.67	0.67	0.36	3.32	735
0	0	0	953.11	14	1.52	0.61	0.35	2.96	712.36
0	0	0	786.15	14	1.18	0.47	0.35	2.27	646.97
0	0	0	716.06	14	1.03	0.41	0.34	1.94	617.46
0	0	0	722.68	14	1.03	0.41	0.34	1.94	620.3
0	0	0	706.75	14	1.09	0.43	0.36	2.17	613.43
0	0	0	758.05	14	1.12	0.44	0.34	2.13	635.3
0	0	0	838.12	14	1.19	0.47	0.33	2.16	668.01
0	0	0	949	14	1.41	0.56	0.33	2.6	710.83
0	0	0	989.46	14	1.47	0.58	0.33	2.69	725.82
0	0	0	1030.7	14	1.51	0.59	0.33	2.73	740.79
0	0	0	1048.13	14	1.69	0.66	0.35	3.24	747.03
0	0	0	1101.73	14	1.75	0.68	0.34	3.29	765.89

0	0	0	1085.13	14	1.69	0.66	0.34	3.13	760.1
0	0	0	1035.12	14	1.6	0.62	0.34	2.96	742.38
0	0	0	930.42	14	1.51	0.59	0.36	2.92	703.83
0	0	0	897.73	14	1.4	0.54	0.35	2.66	691.36
0	0	0	895.13	14	1.35	0.52	0.34	2.49	690.36
0	0	0	982.41	14	1.48	0.57	0.34	2.71	723.23
0	0	0	1087.13	14	1.69	0.65	0.34	3.11	760.8
0	0	0	1344.37	14	1.84	0.71	0.31	3.06	846.04
0	0	0	1656.46	14	1.98	0.76	0.28	3.02	939.12
0	0	0	2148.58	14	3.81	1.46	0.36	7.37	1069.56
0	0	0	2576.81	14	5.8	2.22	0.42	13.02	1171.31
0	0	0	2761.66	14	7.83	2.99	0.48	20.73	1212.59
0	0	0	2814.06	14	8.91	3.4	0.52	26.09	1224.04
0	0	0	2713.63	14	9.04	3.44	0.54	27.71	1202
37	38	1780.01	2230.95	0	0	0	0.33	0	1089.87
0	0	0	2235.04	14	7.14	2.71	0.53	21.06	1090.87
0	0	0	2193.42	14	6.12	2.32	0.48	15.87	1080.66
0	0	0	1822.57	14	5.15	1.95	0.49	13.66	985.08
0	0	0	1571.93	14	4.09	1.54	0.47	10.18	914.84
0	0	0	1407.47	14	2.72	1.03	0.39	5.54	865.66
0	0	0	1349.12	14	2.21	0.83	0.35	4.04	847.53
0	0	0	1383.16	14	2.26	0.85	0.35	4.1	858.16
0	0	0	1379.93	14	2.34	0.88	0.35	4.34	857.15
0	0	0	1641.79	14	4.16	1.56	0.46	10.04	934.95
0	0	0	1624.13	14	3.48	1.3	0.41	7.45	929.91
0	0	0	1132.95	14	2.27	0.84	0.41	4.81	776.67
0	0	0	1202.48	14	1.89	0.7	0.34	3.33	800.15
0	0	0	1279.26	14	1.73	0.64	0.31	2.75	825.29
0	0	0	1592.46	14	2.5	0.93	0.34	4.35	920.8
0	0	0	1953.71	14	3.82	1.41	0.38	7.59	1019.9
0	0	0	2033.13	14	4.21	1.56	0.4	8.65	1040.43
0	0	0	1874.75	14	3.57	1.32	0.38	6.94	999.08
0	0	0	1945.69	14	3.48	1.28	0.36	6.48	1017.81
0	0	0	2017.31	14	4.05	1.49	0.39	8.12	1036.37
0	0	0	1870.38	14	5.11	1.87	0.48	12.68	997.92
31	36	1366.88	1713.15	0	0	0	0.33	0	955.05
0	0	0	2149.06	14	6.98	2.55	0.53	20.16	1069.68
0	0	0	2577.2	14	8.03	2.93	0.52	22.08	1171.4
0	0	0	2925.08	14	9.1	3.31	0.51	24.94	1247.95
0	0	0	3174.31	14	8.9	3.24	0.48	22.13	1300.03
0	0	0	3169.43	14	7.72	2.8	0.44	17.28	1299.03
0	0	0	3262.51	14	7.47	2.7	0.42	16.09	1317.97
0	0	0	3596.04	14	10.15	3.67	0.49	25.31	1383.7

0	0	0	3639.87	14	13.74	4.96	0.59	44.82	1392.11
48	40	2533.14	3174.87	0	0	0	0.33	0	1300.15
45	38	1839.81	2305.9	0	0	0	0.33	0	1108.03
42	38	1917.12	2402.79	0	0	0	0.33	0	1131.06
39	38	2022.47	2534.83	0	0	0	0.33	0	1161.73
38	38	1959.89	2456.39	0	0	0	0.33	0	1143.61
43	37	1808.47	2266.61	0	0	0	0.33	0	1098.55
47	37	1603.49	2009.7	0	0	0	0.33	0	1034.42
47	36	1424.88	1785.85	0	0	0	0.33	0	975.11
41	36	1541.97	1932.6	0	0	0	0.33	0	1014.38
38	36	1591.71	1994.95	0	0	0	0.33	0	1030.61
36	37	1634.18	2048.17	0	0	0	0.33	0	1044.27
0	0	0	2108.18	14	6.99	2.47	0.54	20	1059.46
0	0	0	2024.01	14	4.33	1.53	0.41	8.7	1038.09
0	0	0	1832.38	14	2.74	0.97	0.32	4.39	987.73
0	0	0	2117.94	14	3.06	1.08	0.32	4.79	1061.91
0	0	0	2688.94	14	4.01	1.41	0.33	6.44	1196.52
0	0	0	3679.24	14	10.73	3.76	0.5	26.61	1399.62
51	41	3197.12	4007.06	0	0	0	0.33	0	1460.64
50	41	3012.66	3775.86	0	0	0	0.33	0	1417.87
47	40	2531.72	3173.09	0	0	0	0.33	0	1299.78
45	38	2098.77	2630.46	0	0	0	0.33	0	1183.44
49	37	1723.86	2160.57	0	0	0	0.33	0	1072.54
39	37	1672.52	2096.22	0	0	0	0.33	0	1056.45
0	0	0	1749.92	14	5.25	1.82	0.52	13.58	965.25
0	0	0	1471.46	14	3.26	1.13	0.43	6.75	885.12
0	0	0	1310.88	14	2.18	0.75	0.35	3.72	835.43
0	0	0	1648.83	14	2.14	0.74	0.3	3.08	936.95
0	0	0	1986.18	14	2.76	0.95	0.31	4.11	1028.35
0	0	0	2164.88	14	3.81	1.31	0.36	6.57	1073.61
0	0	0	2060.52	14	5.08	1.74	0.45	10.88	1047.41
0	0	0	1975.06	14	3.5	1.2	0.36	6.06	1025.46
0	0	0	2396.37	14	3.24	1.11	0.31	4.75	1129.55
0	0	0	3105.06	14	7.08	2.42	0.42	14.29	1285.77
0	0	0	3234.73	14	8.05	2.74	0.45	17.15	1312.35
0	0	0	3172.84	14	9.02	3.07	0.49	21.04	1299.73
0	0	0	2567.39	14	8.51	2.89	0.54	23.11	1169.17
0	0	0	2109.95	14	6.61	2.24	0.53	17.17	1059.9
0	0	0	2011.72	14	4.21	1.43	0.4	8.01	1034.93
0	0	0	2275.98	14	3.13	1.06	0.31	4.56	1100.81
0	0	0	2940.55	14	4.96	1.67	0.35	8.23	1251.25
0	0	0	3419.68	14	7.68	2.59	0.42	15.2	1349.34
0	0	0	3304.35	14	8.13	2.74	0.44	16.97	1326.39

0	0	0	3311.81	14	8.14	2.74	0.44	16.97	1327.89
0	0	0	3322.11	14	7.89	2.65	0.43	16.08	1329.95
0	0	0	3393.57	14	7.58	2.54	0.42	14.86	1344.18
0	0	0	3218.69	14	6.44	2.15	0.39	11.77	1309.09
0	0	0	3144.67	14	5.68	1.9	0.37	9.74	1293.95
0	0	0	3697.86	14	8.61	2.87	0.43	17.26	1403.15
0	0	0	3910.3	14	9.86	3.28	0.45	20.78	1442.9
0	0	0	3813.16	14	9.36	3.11	0.44	19.35	1424.86
0	0	0	3473.45	14	7.74	2.57	0.42	15	1359.91
0	0	0	3128.91	14	6.63	2.19	0.4	12.39	1290.7
0	0	0	2694.06	14	5.5	1.82	0.39	10	1197.66
0	0	0	2234.15	14	4.49	1.48	0.39	8.09	1090.65
0	0	0	1984.32	14	3.75	1.23	0.38	6.49	1027.86
0	0	0	1948.28	14	3.56	1.17	0.37	6.02	1018.49
0	0	0	1884.5	14	3.43	1.13	0.37	5.8	1001.68
0	0	0	1765.84	14	3.23	1.06	0.37	5.47	969.63
0	0	0	1487.67	14	2.48	0.81	0.35	3.99	889.99
0	0	0	1316.72	14	1.81	0.59	0.31	2.58	837.29
0	0	0	1234.42	14	1.51	0.49	0.29	2	810.7
0	0	0	1293.14	14	1.94	0.63	0.33	2.94	829.76
0	0	0	1376.04	14	2.07	0.67	0.33	3.11	855.94
0	0	0	1390.18	14	1.99	0.65	0.32	2.88	860.33
0	0	0	1414.13	14	1.83	0.59	0.3	2.47	867.71
0	0	0	1590.18	14	2.72	0.88	0.36	4.4	920.14
0	0	0	1606.73	14	2.56	0.83	0.34	3.94	924.91
0	0	0	1574.01	14	2.54	0.82	0.34	3.95	915.45
0	0	0	1650.37	14	2.66	0.86	0.34	4.1	937.39
0	0	0	2096.36	14	2.98	0.96	0.31	4.21	1056.48
0	0	0	2589.18	14	5.09	1.64	0.38	8.81	1174.12
0	0	0	3077.02	14	6.6	2.12	0.41	12.05	1279.96
0	0	0	3411.4	14	7.89	2.53	0.43	15.1	1347.71
0	0	0	3669.12	14	10.82	3.46	0.5	24.4	1397.69
0	0	0	3518.17	14	9.48	3.03	0.47	19.91	1368.64
0	0	0	3032.79	14	6.63	2.12	0.41	12.18	1270.72
0	0	0	2660.1	14	4.91	1.56	0.37	8.09	1190.09
0	0	0	2268	14	3.99	1.27	0.36	6.36	1098.88
0	0	0	1964.9	14	3.24	1.03	0.34	4.95	1022.82
0	0	0	1740.38	14	2.66	0.84	0.33	3.9	962.61
0	0	0	1765.74	14	2.7	0.86	0.33	3.95	969.6
0	0	0	1857.87	14	2.98	0.94	0.34	4.47	994.57
0	0	0	1801.64	14	2.91	0.92	0.34	4.39	979.41
0	0	0	1585.14	14	2.54	0.8	0.34	3.82	918.68
0	0	0	1415.01	14	2.16	0.68	0.33	3.18	867.98

0	0	0	1485.58	14	2.23	0.7	0.33	3.21	889.36
0	0	0	1506.15	14	2.45	0.77	0.35	3.73	895.5
0	0	0	2002	14	2.56	0.8	0.29	3.3	1032.43
0	0	0	2821.38	14	6.17	1.93	0.41	11.11	1225.63
0	0	0	3253.58	14	10.38	3.24	0.52	24.6	1316.17
0	0	0	2976.47	14	7.2	2.25	0.44	13.77	1258.87
0	0	0	3040.57	14	5.84	1.82	0.38	9.64	1272.35
0	0	0	3063.18	14	6.65	2.07	0.41	11.83	1277.07
0	0	0	3553.84	14	12.34	3.83	0.55	31.57	1375.56
47	40	2986.81	3743.47	0	0	0	0.33	0	1411.78
54	40	3202.36	4013.63	0	0	0	0.33	0	1461.84
59	41	3316.72	4156.96	0	0	0	0.33	0	1487.71

State parameter	Ko	Sensitivity	Peak phi (°)	Shear strength (tsf)
-0.18	0	0	0	0.01
0	1	67.57	0	0.15
0	1	70.84	0	0.18
-0.11	0	0	0	0.03
-0.09	0	0	0	0.04
-0.11	0	0	0	0.05
-0.12	0	0	0	0.05
-0.17	0	0	0	0.07
-0.17	0	0	0	0.08
-0.18	0	0	0	0.08
-0.21	0	0	0	0.1
-0.22	0	0	0	0.11
-0.23	0	0	0	0.12
-0.23	0	0	0	0.13
-0.23	0	0	0	0.14
-0.24	0	0	0	0.15
-0.24	0	0	0	0.16
-0.24	0	0	0	0.17
-0.23	0	0	0	0.18
-0.22	0	0	0	0.18
-0.22	0	0	0	0.19
-0.22	0	0	0	0.2
-0.21	0	0	0	0.2
0	1	80.31	0	2.36
0	1	55.46	0	1.66
0	1	35.54	0	1.45
0	1	82.3	0	3.81
-0.24	0	0	0	0.26
-0.23	0	0	0	0.27
-0.22	0	0	0	0.27
-0.2	0	0	0	0.27
-0.18	0	0	0	0.27
-0.16	0	0	0	0.27
0	1	99.74	0	1.6
0	1	100.91	0	1.36
0	1	99.23	0	1.24
0	1	96.27	0	1.08
0	1	95.65	0	0.94
0	1	94.71	0	0.82
0	1	101.17	0	0.73

0	1	106.73	0	0.67
0	1	105.5	0	0.64
0	1	109.85	0	0.66
0	1	114.42	0	0.69
0	1	138.98	0	0.73
0	1	159.22	0	0.71
0	1	170.08	0	0.66
0	1	158.58	0	0.62
0	1	126.7	0	0.62
0	1	117.95	0	0.69
0	1	134.52	0	0.81
0	1	126.12	0	0.9
0	1	107.91	0	0.98
0	1	98.96	0	1.09
0	1	90.77	0	1.2
0	1	90.79	0	1.36
0	1	90.36	0	1.54
0	1	99.28	0	1.79
-0.1	0	0	0	0.44
0	1	120.37	0	1.63
0	1	110.89	0	1.62
0	1	132.77	0	1.81
-0.1	0	0	0	0.46
-0.1	0	0	0	0.46
0	1	135.42	0	1.87
0	1	120.36	0	1.8
0	1	138.58	0	1.83
0	1	112.15	0	1.77
0	1	106.88	0	1.73
-0.1	0	0	0	0.48
-0.07	0	0	0	0.46
-0.06	0	0	0	0.46
-0.07	0	0	0	0.47
-0.08	0	0	0	0.47
-0.07	0	0	0	0.48
-0.07	0	0	0	0.48
-0.07	0	0	0	0.48
-0.08	0	0	0	0.49
-0.08	0	0	0	0.49
-0.08	0	0	0	0.5
-0.08	0	0	0	0.51
-0.09	0	0	0	0.51
-0.09	0	0	0	0.51

-0.09	0	0	0	0.52
-0.09	0	0	0	0.52
-0.09	0	0	0	0.53
-0.1	0	0	0	0.54
-0.1	0	0	0	0.55
-0.1	0	0	0	0.55
-0.11	0	0	0	0.56
-0.12	0	0	0	0.58
-0.13	0	0	0	0.58
-0.13	0	0	0	0.59
-0.12	0	0	0	0.59
-0.12	0	0	0	0.59
-0.13	0	0	0	0.6
-0.13	0	0	0	0.61
-0.14	0	0	0	0.62
-0.15	0	0	0	0.64
-0.15	0	0	0	0.64
-0.15	0	0	0	0.65
-0.15	0	0	0	0.65
-0.16	0	0	0	0.66
-0.16	0	0	0	0.67
-0.16	0	0	0	0.67
-0.15	0	0	0	0.67
-0.16	0	0	0	0.68
-0.16	0	0	0	0.69
-0.17	0	0	0	0.69
-0.17	0	0	0	0.71
-0.18	0	0	0	0.72
-0.17	0	0	0	0.71
-0.17	0	0	0	0.71
-0.17	0	0	0	0.72
-0.17	0	0	0	0.73
-0.18	0	0	0	0.75
-0.19	0	0	0	0.76
-0.2	0	0	0	0.78
-0.21	0	0	0	0.79
-0.21	0	0	0	0.8
-0.22	0	0	0	0.81
-0.22	0	0	0	0.81
-0.22	0	0	0	0.83
-0.22	0	0	0	0.83
-0.21	0	0	0	0.81
-0.2	0	0	0	0.81

-0.2	0	0	0	0.81
-0.19	0	0	0	0.8
-0.2	0	0	0	0.82
-0.21	0	0	0	0.84
-0.22	0	0	0	0.86
-0.24	0	0	0	0.89
-0.25	0	0	0	0.9
-0.25	0	0	0	0.92
-0.25	0	0	0	0.92
-0.25	0	0	0	0.92
-0.25	0	0	0	0.92
-0.24	0	0	0	0.92
-0.24	0	0	0	0.92
-0.23	0	0	0	0.91
-0.23	0	0	0	0.91
-0.22	0	0	0	0.91
-0.22	0	0	0	0.92
-0.22	0	0	0	0.92
-0.22	0	0	0	0.92
-0.22	0	0	0	0.92
-0.21	0	0	0	0.92
-0.21	0	0	0	0.92
-0.23	0	0	0	0.95
-0.24	0	0	0	0.97
-0.24	0	0	0	0.98
-0.23	0	0	0	0.96
-0.21	0	0	0	0.95
-0.22	0	0	0	0.96
-0.22	0	0	0	0.96
-0.22	0	0	0	0.97
-0.22	0	0	0	0.98
-0.22	0	0	0	0.98
-0.22	0	0	0	0.98
-0.21	0	0	0	0.98
-0.22	0	0	0	0.99
-0.23	0	0	0	1.01
-0.23	0	0	0	1.02
-0.24	0	0	0	1.03
-0.24	0	0	0	1.04
-0.24	0	0	0	1.04
-0.23	0	0	0	1.04
-0.23	0	0	0	1.04

-0.23	0	0	0	1.04
-0.23	0	0	0	1.04
-0.22	0	0	0	1.04
-0.21	0	0	0	1.03
-0.2	0	0	0	1.02
-0.2	0	0	0	1.02
-0.2	0	0	0	1.03
-0.2	0	0	0	1.03
-0.2	0	0	0	1.03
-0.19	0	0	0	1.02
-0.18	0	0	0	1.01
-0.17	0	0	0	0.99
-0.16	0	0	0	0.97
-0.16	0	0	0	0.98
-0.16	0	0	0	0.99
-0.17	0	0	0	1.01
-0.18	0	0	0	1.02
-0.17	0	0	0	1.02
-0.17	0	0	0	1.02
-0.17	0	0	0	1.02
-0.17	0	0	0	1.02
-0.16	0	0	0	1.01
-0.15	0	0	0	0.99
-0.14	0	0	0	0.98
-0.13	0	0	0	0.98
-0.13	0	0	0	0.98
-0.13	0	0	0	0.99
-0.14	0	0	0	1
-0.14	0	0	0	1.01
-0.14	0	0	0	1.01
-0.14	0	0	0	1.02
-0.15	0	0	0	1.03
-0.16	0	0	0	1.06
-0.17	0	0	0	1.08
-0.18	0	0	0	1.1
-0.19	0	0	0	1.12
-0.19	0	0	0	1.13
-0.19	0	0	0	1.13
-0.18	0	0	0	1.12
-0.18	0	0	0	1.12
-0.17	0	0	0	1.11
-0.17	0	0	0	1.11
-0.16	0	0	0	1.1

-0.16	0	0	0	1.1
-0.16	0	0	0	1.1
-0.15	0	0	0	1.08
-0.13	0	0	0	1.06
-0.13	0	0	0	1.05
-0.12	0	0	0	1.05
-0.12	0	0	0	1.05
-0.13	0	0	0	1.08
-0.15	0	0	0	1.11
-0.17	0	0	0	1.15
-0.17	0	0	0	1.17
-0.18	0	0	0	1.18
-0.18	0	0	0	1.19
-0.19	0	0	0	1.2
-0.19	0	0	0	1.22
-0.2	0	0	0	1.23
-0.19	0	0	0	1.23
-0.19	0	0	0	1.23
-0.18	0	0	0	1.22
-0.18	0	0	0	1.21
-0.17	0	0	0	1.21
-0.18	0	0	0	1.22
-0.18	0	0	0	1.23
-0.18	0	0	0	1.23
-0.18	0	0	0	1.24
-0.17	0	0	0	1.22
-0.16	0	0	0	1.2
-0.16	0	0	0	1.2
-0.16	0	0	0	1.2
-0.16	0	0	0	1.21
-0.16	0	0	0	1.22
-0.16	0	0	0	1.23
-0.16	0	0	0	1.23
-0.15	0	0	0	1.22
-0.14	0	0	0	1.2
-0.12	0	0	0	1.17
-0.11	0	0	0	1.14
-0.11	0	0	0	1.14
-0.11	0	0	0	1.14
-0.11	0	0	0	1.16
-0.13	0	0	0	1.2
-0.15	0	0	0	1.25
-0.18	0	0	0	1.31

-0.2	0	0	0	1.36
-0.21	0	0	0	1.39
-0.22	0	0	0	1.41
-0.22	0	0	0	1.41
-0.22	0	0	0	1.42
-0.22	0	0	0	1.43
-0.22	0	0	0	1.44
-0.23	0	0	0	1.45
-0.22	0	0	0	1.45
-0.22	0	0	0	1.45
-0.22	0	0	0	1.45
-0.22	0	0	0	1.45
-0.22	0	0	0	1.46
-0.22	0	0	0	1.46
-0.22	0	0	0	1.46
-0.22	0	0	0	1.46
-0.22	0	0	0	1.47
-0.22	0	0	0	1.49
-0.22	0	0	0	1.49
-0.2	0	0	0	1.43
-0.22	0	0	0	1.49
-0.21	0	0	0	1.47
-0.2	0	0	0	1.46
-0.2	0	0	0	1.46
-0.21	0	0	0	1.48
-0.21	0	0	0	1.49
-0.21	0	0	0	1.5
-0.21	0	0	0	1.51
-0.22	0	0	0	1.52
-0.22	0	0	0	1.53
-0.22	0	0	0	1.53
-0.22	0	0	0	1.53
-0.21	0	0	0	1.53
-0.22	0	0	0	1.54
-0.21	0	0	0	1.54
-0.22	0	0	0	1.55
-0.21	0	0	0	1.55
-0.21	0	0	0	1.54
-0.2	0	0	0	1.52
-0.2	0	0	0	1.53
-0.2	0	0	0	1.54
-0.2	0	0	0	1.55
-0.2	0	0	0	1.55

-0.2	0	0	0	1.56
-0.22	0	0	0	1.6
-0.22	0	0	0	1.61
-0.22	0	0	0	1.61
-0.21	0	0	0	1.6
-0.21	0	0	0	1.59
-0.2	0	0	0	1.58
-0.19	0	0	0	1.54
-0.18	0	0	0	1.53
-0.17	0	0	0	1.51
-0.17	0	0	0	1.52
-0.16	0	0	0	1.5
-0.12	0	0	0	1.4
-0.1	0	0	0	1.35
0	1	139.71	0	3.31
0	1	142.03	0	2.61
0	1	116.92	0	2.47
0	1	128.16	0	2.57
0	1	139.92	0	2.81
0	1	155.19	0	3.08
0	1	160.68	0	3.16
0	1	158.99	0	3.28
0	1	168.24	0	3.46
0	1	167.68	0	3.55
0	1.98	142.47	39.07	3.54
0	1.96	134.52	38.64	3.56
0	1	121.89	0	3.23
0	1	115.01	0	2.78
0	1	115.41	0	2.47
0	1	118.98	0	2.22
0	1.22	98.86	33.31	2.07
0	1.19	101.5	32.81	1.98
0	1	101.47	0	1.96
0	1	107.77	0	1.97
0	1.17	90.25	33.12	2
0	1.26	102.55	33.69	2.18
0	1	92.1	0	2.41
0	1	71.32	0	2.19
0	1.42	69.6	35.86	2.83
0	1	66.17	0	3.74
0	1	69.45	0	4.2
0	1	75.36	0	4.28
0	1	91.71	0	3.88

0	1	104.58	0	3.18
0	1	170.89	0	2.21
0	1	140.16	0	1.76
0	1	119.09	0	1.67
0	1	104.44	0	1.79
0	1	103.68	0	2.11
0	1	112.48	0	2.26
0	1	114.81	0	2.35
0	1	126.66	0	2.37
0	1	115.09	0	2.17
0	1.07	75.81	31.41	1.86
0	1.01	50.09	31.66	1.85
0	1	53.04	0	2.33
0	1	61.68	0	2.98
0	1	80.7	0	3.46
0	1	88.76	0	3.84
0	1	67.94	0	3.52
0	1	60.65	0	3.31
0	1	79.4	0	4.06
0	1	117.43	0	5.49
-0.12	0	0	0	1.57
-0.11	0	0	0	1.56
-0.12	0	0	0	1.6
-0.13	0	0	0	1.62
-0.12	0	0	0	1.61
-0.12	0	0	0	1.6
-0.12	0	0	0	1.61
-0.14	0	0	0	1.65
0	1	103.03	0	7.28
0	1	79.82	0	5.89
-0.13	0	0	0	1.65
-0.13	0	0	0	1.65
-0.14	0	0	0	1.68
-0.13	0	0	0	1.67
-0.13	0	0	0	1.67
-0.14	0	0	0	1.69
-0.14	0	0	0	1.71
-0.15	0	0	0	1.73
-0.15	0	0	0	1.74
-0.15	0	0	0	1.75
-0.16	0	0	0	1.76
-0.16	0	0	0	1.76
-0.16	0	0	0	1.77

-0.16	0	0	0	1.79
-0.17	0	0	0	1.81
-0.17	0	0	0	1.83
-0.17	0	0	0	1.84
-0.17	0	0	0	1.84
-0.17	0	0	0	1.82
-0.16	0	0	0	1.8
-0.15	0	0	0	1.78
-0.14	0	0	0	1.77
-0.14	0	0	0	1.76
-0.14	0	0	0	1.77
-0.15	0	0	0	1.79
-0.15	0	0	0	1.81
-0.16	0	0	0	1.83
-0.16	0	0	0	1.83
-0.15	0	0	0	1.83
-0.15	0	0	0	1.82
-0.15	0	0	0	1.81
-0.15	0	0	0	1.82
-0.15	0	0	0	1.82
-0.15	0	0	0	1.84
-0.15	0	0	0	1.85
-0.15	0	0	0	1.83
-0.12	0	0	0	1.76
0	1	83.63	0	3.65
0	1	87.13	0	2.42
0	1	86.51	0	2.3
0	1	57.02	0	1.83
0	1	60.13	0	2.24
0	1	83.91	0	2.84
0	1	79.03	0	2.58
0	1	71.24	0	1.92
0	1	75.56	0	1.84
0	1	74.35	0	1.96
0	1	49.09	0	1.61
0	1	57.63	0	2.12
0	1	80.57	0	3.18
0	1	82.65	0	3.76
0	1	92.12	0	4.03
0	1	109.11	0	4.54
0	1	106.67	0	4.33
0	1	76.19	0	3.29
0	1	63.71	0	2.6

0	1	83.77	0	2.61
0	1	71.92	0	2.17
0	1	67.55	0	2.14
0	1	67.27	0	2.34
0	1	60.7	0	2.52
0	1	55.93	0	2.82
0	1	49.44	0	2.79
0	1	69.98	0	3.92
0	1	82.98	0	4.63
0	1	100.01	0	5.58
-0.12	0	0	0	1.86
-0.1	0	0	0	1.8
-0.1	0	0	0	1.81
-0.1	0	0	0	1.8
-0.09	0	0	0	1.78
-0.09	0	0	0	1.77
0	1	138.8	0	5.46
0	1	82.99	0	3.06
0	1	68.98	0	2.2
0	1	82.75	0	3.39
0	1	97.79	0	4.49
0	1	76.32	0	3.79
0	1	85.77	0	3.64
0	1	98.38	0	3.85
0	1	110.6	0	3.47
0	1	138.18	0	3.14
0	1	129.69	0	2.44
0	1	120.03	0	1.59
0	1	81.13	0	1.16
0	1	73.84	0	1.24
0	1	99.64	0	1.67
0	1	103	0	1.52
0	1	124.13	0	1.18
0	1	133.29	0	1.03
0	1	131.03	0	1.03
0	1	156.52	0	1.09
0	1	129.64	0	1.12
0	1	103.66	0	1.19
0	1	93.95	0	1.41
0	1	88.59	0	1.47
0	1	82.2	0	1.51
0	1	94.64	0	1.69
0	1	86.22	0	1.75

0	1	85.11	0	1.69
0	1	89.95	0	1.6
0	1	114.25	0	1.51
0	1	113.29	0	1.4
0	1	107.44	0	1.35
0	1	94.23	0	1.48
0	1	86.3	0	1.69
0	1	53.17	0	1.84
0	1	33.61	0	1.98
0	1	47.74	0	3.81
0	1	58	0	5.8
0	1	76.19	0	7.83
0	1	86.59	0	8.91
0	1	96.06	0	9.04
-0.12	0	0	0	2.04
0	1	111.62	0	7.14
0	1	95.68	0	6.12
0	1	120.69	0	5.15
0	1	130.06	0	4.09
0	1	91.3	0	2.72
0	1	73.41	0	2.21
0	1	70.85	0	2.26
0	1	75.56	0	2.34
0	1	119.12	0	4.16
0	1	91.36	0	3.48
0	1	132.05	0	2.27
0	1	80.07	0	1.89
0	1	57.61	0	1.73
0	1	56.89	0	2.5
0	1	64.29	0	3.82
0	1	67.53	0	4.21
0	1	64.63	0	3.57
0	1	56.11	0	3.48
0	1	65.25	0	4.05
0	1	116.61	0	5.11
-0.08	0	0	0	1.97
0	1	124.41	0	6.98
0	1	97.03	0	8.03
0	1	85.52	0	9.1
0	1	69.32	0	8.9
0	1	56.52	0	7.72
0	1	50.07	0	7.47
0	1	62.67	0	10.15

0	1	90.34	0	13.74
-0.16	0	0	0	2.31
-0.12	0	0	0	2.15
-0.12	0	0	0	2.16
-0.13	0	0	0	2.2
-0.13	0	0	0	2.19
-0.11	0	0	0	2.15
-0.11	0	0	0	2.12
-0.09	0	0	0	2.08
-0.09	0	0	0	2.07
-0.09	0	0	0	2.08
-0.1	0	0	0	2.1
0	1	136.13	0	6.99
0	1	75.28	0	4.33
0	1	47.43	0	2.74
0	1	38.31	0	3.06
0	1	31.79	0	4.01
0	1	65.98	0	10.73
-0.19	0	0	0	2.5
-0.18	0	0	0	2.47
-0.16	0	0	0	2.37
-0.13	0	0	0	2.27
-0.11	0	0	0	2.2
-0.1	0	0	0	2.15
0	1	154.46	0	5.25
0	1	121.33	0	3.26
0	1	86.96	0	2.18
0	1	43.57	0	2.14
0	1	39.38	0	2.76
0	1	52.51	0	3.81
0	1	95.62	0	5.08
0	1	59.1	0	3.5
0	1	31.31	0	3.24
0	1	55.08	0	7.08
0	1	60.82	0	8.05
0	1	75.75	0	9.02
0	1	114.5	0	8.51
0	1	133.41	0	6.61
0	1	76.62	0	4.21
0	1	34.19	0	3.13
0	1	36.63	0	4.96
0	1	49.72	0	7.68
0	1	59.27	0	8.13

0	1	59.19	0	8.14
0	1	56.04	0	7.89
0	1	50.01	0	7.58
0	1	44.35	0	6.44
0	1	38.71	0	5.68
0	1	49.46	0	8.61
0	1	53.32	0	9.86
0	1	52.39	0	9.36
0	1	49.15	0	7.74
0	1	50.18	0	6.63
0	1	54.98	0	5.5
0	1	65.63	0	4.49
0	1	67.93	0	3.75
0	1	65.78	0	3.56
0	1	68.24	0	3.43
0	1	74.36	0	3.23
0	1	79.2	0	2.48
0	1	67.32	0	1.81
0	1	60.24	0	1.51
0	1	80.46	0	1.94
0	1	74.46	0	2.07
0	1	67.58	0	1.99
0	1	55.83	0	1.83
0	1	77.16	0	2.72
0	1	67.77	0	2.56
0	1	71.36	0	2.54
0	1	67.09	0	2.66
0	1	41.45	0	2.98
0	1	55.7	0	5.09
0	1	53.67	0	6.6
0	1	54.72	0	7.89
0	1	73.75	0	10.82
0	1	67.63	0	9.48
0	1	56.47	0	6.63
0	1	49.43	0	4.91
0	1	54.3	0	3.99
0	1	57.47	0	3.24
0	1	58.98	0	2.66
0	1	58.03	0	2.7
0	1	59.04	0	2.98
0	1	62.18	0	2.91
0	1	71.8	0	2.54
0	1	77.03	0	2.16

0	1	70.1	0	2.23
0	1	79.28	0	2.45
0	1	37.96	0	2.56
0	1	62.03	0	6.17
0	1	93.98	0	10.38
0	1	69.01	0	7.2
0	1	46.98	0	5.84
0	1	56.66	0	6.65
0	1	96.36	0	12.34
-0.16	0	0	0	2.69
-0.18	0	0	0	2.75
-0.18	0	0	0	2.8