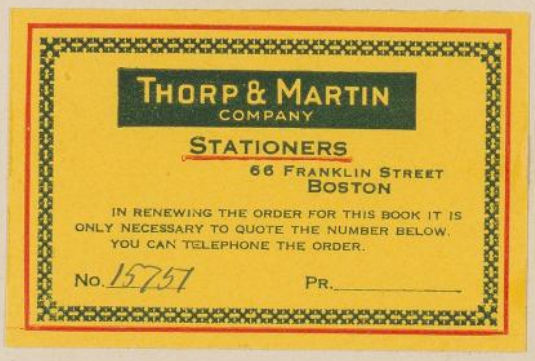
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C. J. Q.

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M64571 W458 R 0.007

	25		101.9 80.7	80.9
			82.1	80.7
3922	26.5		82.3	80.6
			82.2	.4
			81.4	.3
			80.7	.1
	30		80.0	.0
	39		102.0 79.1	79.0
	40		79.7	78.8
	41		79.8	.7
λ	421		80.8	.5
	43		79.7	.4
	44		79.2	.3
	45		78.9	.1
			78.3	.0
			78.8	77.9
	48		79.6	.8
3930	48.5		79.9	.7
	49		80.0	.6
	50		79.0	.5
			78.3	.3
			77.5	.1
			77.5	.0
	54		77.8	76.9
	54.8		77.6	.8
	56		78.8	.7
	56.8		78.8	.5
	57.5		81.1	.4
	58		84.4	.3
	58.5		88.0	.2
	59		91.9	.1

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	59.5	95.0	.1
3933	60	96.3	.0
	60.5	96.8	.0
	61	91.7	75.9
	61.5	88.0	.9
	62	83.9	.8
	62.5	81.6	.7
	63	80.0	.7
	63.5	78.6	.6
	64	77.7	.5
	64.5 ~~65~~	77.1	.4
	66	77.7	.3
	67	76.8	.1
	68.2	77.1	.0
	69	76.6	74.9
	70	75.9	.7
	71	75.5	.6
	72	74.7	.4
	73	74.9	.2
3938	73.5	76.0	.1
	75	102.1 76.6	73.9
	75.8	75.2	.8
	76.4	75.2	.7
	77.3	74.5	.6
	78	74.7	.4
	79	74.2	.3
	80	73.3	.0
	81	73.0	72.9
	82	72.4	.8
	83	72.8	.6
	84	72.5	.4

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	85.5	72.3	.2
	86.5	73.8	.0
	87.5	73.6	71.9
	88.1	73.2	.8
	89.	73.8	.7
	89.8	74.2	.5
	91.3	74.3	.3
3944	92.3	75.4	.1
	93	74.6	.0
	94	73.3	70.9
	95	102.2	72.9 .7
	96.2	73.2	.5
	97.1	72.2	.3
	98	72.5	.2
	99	72.0	
	100	71.7	.0
		72.8	69.8
		72.8	.7
		72.3	.5
	103.8	73.1	.3
	104.7	72.1	.1
	105.5	72.5	.0
	106.8	71.9	68.9
	108.5	71.9	.7
	109.2	72.3	.5
	110.1	71.0	.4
	111.1	73.0	.2
	112	72.5	.0
	113	72.0	67.9
	114	72.8	.7
	115.5	72.3	.6

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	116.5		72.8	.3
	117.1		72.7	.2
	118		73.3	.1
	119.1		71.8	.0
	120		72.8	66.8
	120.8		73.6	.7
	122		72.8	.5
			72.3	.3
			72.8	.2
	125	102.3	73.0	.1
	126.1		73.4	65.9
	127		75.1	.8
3956	127.9		75.3	.6
	129.1		73.7	.4
	130		74.8	.3
	130.5		75.6	.1
	132		76.7	.0
	132.9		77.5	64.8
	134.1		76.7	.6
	135.2		77.0	.4
	136		77.8	.3
	137		78.7	.1
	138		78.3	.0
	138.8		78.8	63.9
	139.5		78.4	.8
	141		80.0	.6
	142		81.3	.4
	143		81.1	.2
			82.0	.0
	145	102.4	82.7	62.9
			82.9	.8

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	146.7	82.7	.7
	148	84.3	.5
	148.9	85.8	.3
	149.5	85.5	.2
	150.5	87.1	.0
	150.9	87.3	.0
	152	86.8	61.8
	153	87.2	.7
	154	88.0	.5
	155	89.0	.3
	156	90.2	.2
	156.7	102.5 90.0	.1
	157.8	91.2	.0
	159	91.0	60.8
	160	92.0	.6
	160.5	92.7	.5
	161	93.6	.4
	161.5 ~~162~~	94.1	.3
	162	94.3	.2
	162.5	94.5	.1
	163	94.4	.1
	163.5	95.0	.0
	164	96.0	.0
	164.5	96.7	59.9
	165	97.8	.9
	165.5	98.6	.8
3968	166	102.6 98.8	.7
	166.5	98.7	.7
	167	98.1	.6
	167.6	97.2	.4
	168	97.7	.3

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	168.5	98.4	.2
	169.2	98.7	.1
	170	99.8	.0
	170.5	100.4	.0
3970	171.2	101.2	58.9
	172	100.0	.8
	172.5	99.4	.7
	173.2	98.5	.5
	173.9	98.8	.4
	174.5	97.9	.3
	175	97.0	.2
	175.9	95.5	.0
	177.1	96.7	57.9
	178	94.9	.8
	178.5	93.8	.7
	179	93.2	.6
	179.5	93.2	.5
	180.5	102.7 92.0	.4
	181	92.1	.3
		90.8	.2
		90.8	.0
		89.2	56.9
	184.9	87.7	.8
	185.3	87.6	.7
	186.5	86.0	.5
	187.5	85.6	.3
	188.5	84.1	.1
	189.4	84.0	.0
	190	83.7	55.9
	190.4	83.7	.9
	191	82.6	.8

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1930phae.proj..039A

192	80.2	.6
193	80.0	.4
194	80.0	.3
195.4	77.5	.1
196	77.0	.0
~~196~~ 197.4	74.0	54.8
198.3	74.7	.6
199	74.1	.5
200	73.4	.3
201	72.1	.1
202	71.7	.0
203	102.8 71.3	53.9
204	70.3	.7
205	69.0	.6
206	67.9	.4
207	67.3	.3
208	65.9	.1
~~208~~ 208.8	64.8	.0 ~~52.9~~
209.2	64.8	52.9
210.3	63.3	.7
211.4	64.0	.6
212.8	62.2	.4
213.1	62.2	.3
214	61.1	.1
215	61.0	.0
216	60.3	51.9
217	59.8	.7
~~217~~ 218	58.7	.6
219	59.3	.4
219.9	59.9	.2
221	102.9 57.8	.0

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1930phae.proj..689A

	222.4	58.2	50.8
	223.5	57.1	.7
	224.5	56.8	.5
	225.1	55.9	.4
	225.8	56.1	.3
	227	55.3	.1
	228	54.8	.0
	229	54.3	49.8
	230	53.2	.7
	230.7	52.7	.6
3997?	231.4	53.2	.4
	232	53.1	.3
	233	52.7	.2
	233.8	52.2	.0
	234.9	52.8	48.9
	235.7	52.0	.8
	236.3	52.7	.7
	237.5	51.3	.5
	238.5	49.7	.3
	239.5	49.5	.2
	240.1	50.5	.1
	241	49.9	.0
		49.1	47.8
		49.8	.6
		49.1	.5
	245	103.0 49.5	.3
	246	48.7	.1
	246.4	47.8	.1
	247.1	49.0	.0
	248	48.3	46.9
	248.7	47.4	.8

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	250	48.7	.5
		48.4	.4
		47.9	.2
	253	47.1	.0
	253.7	47.7	45.9
	254	47.1	.9
	255.3	46.2	.7
	256.3	46.4	.6
	257	45.9	.5
		45.7	.3
		45.7	.1
	259?	46.2	.0
	261	45.7	44.9
		45.0	.8
		44.5	.6
		44.3	.4
	265	44.8	.2
	265.9	45.8	.1
	267	44.7	.0
	268	43.9	43.8
		43.4	.2
	270	43.2	.4
		43.0	.2
		44.3	.0
	272.5	45.4	4 0
4005?	273.7	45.6	42.9
	274.5	44.9	.8
	275.5	43.8	.6
	276.5	42.0	.4
	277.5	42.5	.2
	278	41.8	.0

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1930phae.proj..689A

	291	103.2	40.1 41.1
	292		40.8 .0
	293		41.9 39.8
4012	293.3		42.3 .8
	294		41.7 .7
	294.7		40.7 .6
	295.4		40.6 .5
	296		39.5 .4
	300		39.0 39.0
	301		39.7 38.9
4015?	302		40,8 .8
	303		38.8 .7
	304		37.7 .6

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1930phae.proj...0890A

μΦ 4572 W458 δ 0.007

	15	101.2	25.8	25.6
			26.8	.6
			28.8	.5
4063	17.5		29.8	.5
	18		29.2	.4
	19		26.8	.4
	20		26.1	.3
			25.9	.3
			26.1	.2
			25.2	.2
			25.2	.1
	25	101.1	25.0	.1
	26.2		26.4	.0
			26.0	.0
			260	24.9
			25.4	.9
	30		25.6	.9
			25.4	.8
			26.0	.8
			25.0	.7
			25.5	.7
	34.7		25.0	.6
	35.7	101.0	26.0	.6
	36.5		25.9	.5
	37.5		27.4	.5
4071	38.1		29.0	.4
			26.9	.4
	40		25.6	.4
			25.8	.3
			25.0	.3
			25.0	.2

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1930phae.proj..689A

	44	24.9	.2
	45	24.8	.1
		25.0	.1
		24.9	.0
	48.3	25.7	.0
	49	25.3	23.9
	50	26.0	.9
	50.8	26.8	.8
	52	26.0	.8
	53	28.0	.7
4077	53.8	28.8	.7
	54.5	28.0	.6
	55	100.9 26.7	.6
	55.7	26.8	.6
	57	25.9	.5
	58.4	26.7	.4
	59	26.3	.4
	60	27.0	.3
		26.9	.3
		27.0	.2
		27.0	.2
		27.7	.1
	65	27.4	.1
		27.5	.0
		27.4	.0
		100.8 28.0	.0
		28.0	22.9
	70	29.1	.9
		28.8	.8
		29.7	.8
	73	29.8	.7

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1930phae.proj..089A

74		29.8 .7
74.8		30.9 .6
75.5		30.1 .6
76.5		30.4 .5
77.5		30.8 .5
78		31.3 .4
79		31.8 .4
80		32.3 .3
80.5		32.1 .3
81.5		33.4 .2
82.5		33.9 .2
83	100.7	33.7 .1
83.8		33.9 .1
84.3		33.7 .1
85.1		34.9 .0
85.8		34.8 .0
87		36 .0
87.7		37.2 .0
88.4		37.1 21.9
89.5		38.2 .9
90.5		39.6 .8
91.7		41.8 .8
92.3		41.6 .7
93		42.2 .7
94		43.6 .7
95		44.4 .6
95.5		45.2 .6
96		45.5 .5
97	100.6	47.8 .5
97.7		49.2 .4
98.2		49.2 .4

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1930phae.proj..689A

	99	50.4	.3
	99.8	52.0	.3
	100.1	52.1	.3
	101	54.3	.2
	102	56.0	.2
	103	58.1	.1
	103.5	59.0	.1
	104	61.0	.1
	105	100.5 62.8	.0
	105.5	64.0	.0
	106	66.2	.0
	107	68.2	.0
	108	70.8	20.9
	108.9	72.8	.9
	109.1	74.0	.9
	110	76.8	.8
	110.7	78.9	.8
	111	79.0	.8
	111.5	81.0	.7
	112	83.2	.7
	112.5	85.1	.7
	113	87.7	.7
4101	113.5	88.7	.6
	114	87.5	.6
	114.5	85.6	.6
	115	83.9	.6
	115.5	81.6	.5
	116	100.4 79.8	.5
	117	75.6	.5
	118	72.3	.4
	118.5	71.0	.4

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1930phae.proj..0890A

119.5		67.3 .3
120		67.1 .3
120		65.0 .2
121		65.0 .2
122	100.3	62.3 .2
123		59.5 .1
124		57.0 .1
124.6		56.9 .1
125		55.9 .0
126		52.4 .0
127		51.0 .0
128		49.5 .0
129		47.5 19.9
129.7		47.4 .9
131	100.2	45.0 .8
131.5		44.9 .8
133		42.0 .7
133.4		42.3 .7
135		39.8 .6
136		37.8 .6
137		36.3 .5
138	100.1	35.8 .5
139		34.2 .4
140		33.3 .3
140.5		32.9 .3
141.1		32.9 .3
142		32.0 .2
143		30.5 .2
144		30.0 .1
145	100.0	29.0 .1
146		28.8 .0
146.8		28.3 .0

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	147.2	28.5	.0
	148.3	27.0	.0
	149	27.0	18.9
	149.8	26.2	.9
	150.5	26.6	.9
	151	25.8	.8
	152	25.0	.8
	153	24.8	.7
	154	24.7	.7
	155	24.6	.6
	156	24.0	.6
	157	23.0	.5
	158	23.1	.5
	159	22.9	.4
	160	22.9	.3
	161	22.3	.3
	162	22.2	.2
	163	22.2	.2
	164.1	22.0	.1
4/18	165	22.4	.1
		20.8	.0
		20.0	.0
		20.0	.0
		20.0	17.9
	170	20.0	.9
	171.5	19.2	.8
	172.7	20.0	.8
	174	19.8	.6
	175	19.7	.6
	175.8	19.3	.5
	176.5	20.0	.5

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1930phae.proj..089A

	177		20.8	.4
4/28	177.6		21.8	.4
	178		21.2	.4
	1788		19.3	.3
	180	99.9	18.2	.3
	181		18.4	.2
	181.5		18.5	.2
	182.5		18.3	.2
	183		18.8	.1
	184.		20.7	.1
4/31	184.5		21.4	.1
	185		20.8	.0
	1859		18.3	.0
4/32	187		18.8	.0
	188.4	99.8	17.8	16.9
	189		17.8	.9
	190		16.9	.8
	191.3		17.3	.8
	192.2		17.0	.7
	193		18.0	.7
	194		17.2	.6
	195		17.0	.6
	196		17.0	.5
	197		16.7	.5
	198		16.5	.4
	199		16.4	.3
	200		16.4	.3
	11		16.3	.2
			16.8	.2
			16.3	.1
	204		16.7	.0

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1930phae.proj..6

20 μØ4573 W458 δ 0.005

	5	103.1 62.5	62.8
	6.4	63.0	.7
	7	63.7	.6
	8	66.2	.5
4045	8.3	66.7	.5
	9	65.5	.4
	10	62.9	.3
	11	62.0	.2
	27.1	60.4	61.0
	28	61.2	60.9
	29	62.1	.8
4053	29.6	62.3	.7
	30	62.1	.7
	31	61.0	.6
	32	60.0	.5
	52	59.3	58.9
	53	59.3	.8
	54	60.6	.7
	55	63.0	.6
4063	55.7	~~63.2~~ 63.7	.5
	56	~~60.0~~ 63.2	.5
	57	60.0	.4
	57.3	59.4	.4
	58.5	60.1	.3
	59.5	59.3	.2
	61	59.2	.1
	62.3	58.8	.0
	63.5	59.3	57.9
	64.5	59.8	.9
	65.5	59.0	.8
	66.5	59.6	.8

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1930phae.proj..000A

	68	59.0	.7
		58.1	.6
		57.8	.5
		57.9	.4
		58.1	.3
	73.3	58.1	.2
	74	58.4	.1
		59.7	.1
		61.5	.0
4071	76.3	61.7	.0
	77	61.0	56.9
	78	60.0	.8
	79	59.0	.7
	80	58.1	.6
	81.5	59.0	.5
	83	58.3	.4
		58.5	.3
	85	58.8	.2
		59.0	.2
	87	58.9	.1
	88.7	59.7	.0
	89.5	59.1	.0
	90	59.4	.0
	90.5	60.3	55.9
4077	91.2	61.0	.9
	92.2	59.9	.8
	93	59.9	.7
	94	59.3	.6
	94.7	58.6	.5
	96	59.0	.5
	97	59.8	.4

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1930phae.proj..689A

98	60.1	.3
99.6	59.5	.2
101	60.9	.1
102.5	60.1	.0
104	61.2	54.9
105	61.8	.8
106	61.4	.7
107.4	62.8	.6
108	62.6	.6
109	62.7	.5
110	62.7	.4
111	63.2	.3
112	63.8	.2
112.8	64.2	.1
113.6	64.0	.1
114.5	64.3	.0
115	64.2	.0
116	64.7	53.9
117	65.1	.9
118	66.5	.8
119	66.7	.7
120	66.8	.7
121	66.9	.6
122	68.3	.5
123	69.5	.4
123.9	69.6	.4
125	70.9	.3
126	71.8	.2
127	73.3	.1
128	73.2	.0
129	73.2	52.9

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1930phae.proj..0230A

130		74.1	.9
		75.4	.8
		77.1	.7
		78.3	.7
133.8		79.3	.6
134.5		79.2	.5
135		79.8	.4
136		81.6	.4
137		82.3	.3
138.2		82.7	.2
139		84.1	.1
140		85.4	.1
141.2		87.3	.0
142		87.2	51.9
143		89.0	.9
144		90.1	.8
144.5		90.4	.8
145.2		90.4	.8
146		91.4	.7
147		93.2	.6
147.5		93.7	.5
148		94.1	.5
149		95.7	.4
149.5		95.8	.4
150		96.2	.3
150.5		96.9	.3
151		97.3	.2
151.5		97.8	.2
ECOI 151.9		97.9	.2
152.5		97.7	.1
153		97.1	.1

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1930phae.proj..689A

153.5	103.0	96.0	.0
154		95.3	.0
154.5		94.7	.0
155		94.4	50.9
156		94.0	.9
156.5		93.3	.8
157		92.5	.8
158		90.2	.7
159		90.5	.6
160		90.0	.5
161		87.5	.5
162		85.0	.4
163		84.9	.3
164		84.0	.2
165		82.4	.1
166		81.7	.0
166.5		81.1	.0
167.4		79.0	.0
168.2		78.9	49.9
169		78.0	.9
170		76.8	.8
170.8		76.7	.7
171.8		75.0	.7
172.3		74.7	.6
173		73.8	.5
174		72.0	.5
175		70.6	.4
175.7		70.5	.3
177		67.9	.2
178		67.6	.2
179		66.8	.1

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1930phae.proj..039A

	180	65.3	.0
	180.8	64.2	48.9
	182	64.4	.9
	182.8	64.4	.8
	183.8	63.5	.7
	184.7	63.3	.6
	186	61.6	.5
	187	60.2	.5
	188	59.7	.4
	189	59.0	.3
	190	57.9	.2
	191.3	57.4	.1
	192	56.9	.1
	193	56.2	.0
	194	56.8	.0
	195	55.7	47.9
	195.8	54.3	.8
	197	54.7	.7
	198	54.6	.7
	199	54.3	.6
	200	54.2	.6
	200.6	53.3	.5
4118	201.9	53.3	.4
	203	51.8	.3
	203.5	51.7	.2
	204.9	52.1	.1
	206	51.2	.0
	207	51.2	.0
	208	51.2	46.9
	209	51.0	.9
	210	51.0	.8

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1930phae.proj..689A

	211	50.8	.7
		50.4	.6
		50.3	.5
		50.9	.4
	214.5	51.5	.4
4128	215.2	53.2	.4
	216	52.2	.3
	217	50.0	.2
	218	48.8	.1
	219	48.0	.1
	220	48.7	.0
	220.5	48.9	45.9
	221	49.3	.9
	221.5	50.0	.9
	222	50.9	.8
4131	222.5	51.5	.8
	223	51.0	.8
	223.5	49.7	.7
	224	49.2	.7
	224.5	48.7	.6
4132	225.5	48.5	.6
	226	48.0	.5
		47.4	.4
		47.2	.3
		47.0	.2
	230	46.5	.2
		46.5	.1
		47.1	.0
		46.7	.0
		46.5	44.9
	235	46.1	.8

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1930phae.proj..0190A

236	45.7	.8
	45.9	.7
	45.3	.6
	44.7	.6
240	44.5	.5
	44.8	.4
	45.2	.3
	~~45.6~~ 45.6	.2
	~~44.4~~ 45.4	.1
245	44.7	.1
	44.5	.0
	44.0	.0
	43.9	43.9
249	43.9	.8

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1930phae.proj..689A

28 μΦ4574 W458 r-δ 0.500

4131	-26.9			
	0.7	101.4	54.7	54.2
	1.5		55.3	.1
	2.0		55.8	.1
	2.5		56.7	.0
	3.0		57.0	.0
4143	3.6		57.5	.0
	4		57.1	53.9
	4.5		56.4	.9
	5		55.4	.9
	5.8		54.9	.8
	6.5		55.0	.8
4146	7.0		55.3	.7
	8		54.8	.7
	9		54.0	.6
	10		53.4	.5
	46.5	101.1	50.9	50.3
	47.8		51.7	.2
	48.5		51.4	.1
	49		51.8	.1
4163	50		53.0	.0
	51		51.3	.0
	51.7		50.3	49.9
	53		50.2	.8
	66	101.0	49.4	48.8
	67		50.0	.7
	68		51.2	.6
4171	68.6		52.1	.5
	69		51.4	.5
	70.2		49.4	.4
	71		50.0	.3
	71.5		51.5	.3

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1930phae.proj..689A

4173	72.1	53.0	.2
	73	50.2	.1
	74	48.0	.1
	74.5	47.3	.0
	76	48.3	.0
	79.8	47.9	47.8
	80	48.1	.7
	81	48.8	.5
λ	81.7	49.2	.4
	82.4	49.0	.4
	83	49.8	.3
	83.5	51.2	.3
4178	84.2	52.7	.2
	85	51.0	.1
	85.5	49.0	.1
	86.3	47.6	.0
	127.1	100.8 44.1	43.4
	128	44.8	.4
λ	129	45.3	.3
4199?	130.1	45.0	.3
	131	44.3	.2
	131.9	43.3	.2
	133.1	44.1	.2
	133.8	44.0	.1
	134.5	44.3	.1
	135.5	44.8	.0
4202	136.8	45.8	42.9
	137.5	44.5	.9
	138.1	43.9 44.5	.8
	139.1	44.5	.8
	140.5	42.8	.7

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1930phae.proj..089A

	163.3	100.6	40.9	40.8
	164.5		41.9	.7
	165		42.1	.7
	165.6		42.8	.6
4215	166		42.6	.6
	166.8		42.8	.5
	167.5		41.4	.4
	168.5		40.6	.4
	201.6	100.3	38.0	38.0
	202		38.3	37.9
	202.5		39.8	.8
	203		41.5	.8
4233	203.8		43.5	.7
	204.5		41.6	.7
	205		39.5	.7
	205.5		38.2	.6
	206		37.9	.6
	208	100.2	37.3	.5
	208.5		37.8	.4
4235	209.2		38.5	.4
	210		37.8	.3
	210.7		96.9	.3
	222	100.1	96.4	36.4
4242	223		37.9	.3
	224		37.5	.2
	225.2		95.6	.1
	230	100.0	36.0	35.8
	231		36.4	.7
4246	232		37.1	.6
	233		36.0	.5
	234		35.8	.5

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1930phae.proj..689A

	237.7		95.0	95.2
	238.5		96.3	.1
4250	239.6		37.1	.2
	240.5		37.0	.0
	241		36.8	.0
	242.2		95.0	34.9
	258		93.6	93.8
	259		34.5	.8
	260		35.0	.7
4262	260.7		35.1	.7
	261.7		33.8	.6
	281	99.9	32.1	32.3
	282		33.1	.3
	282.5		34.0	.3
4271	283.3		35.1	.2
	284		33.8	.2
	285		32.0	.1

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1930phae.proj..089A

μφ 4575 W458 8 0.006

	12	99.1	17.9	18.2
	13.1		18.9	.2
	14		19.0	.1
4300	15.2		21.6	.1
	16		18.6	.1
	17		18.2	.0
	18		18.8	.0
4302	19.2		19.8	.0
	20	99.2	19.0	.0
43032	1.2		20.2	17.9
	22		18.8	.9
	23		17.9	.9
	24		18.0	.8
	25		17.7	.8
	26		18.1	.8
	27		18.3	.8
	28		18.9	.7
	29		18.6	.7
	30	99.3	19.9	.7
4307	30.8		22.1	.7
	32		19.2	.6
	33		18.3	.6
	34		18.5	.6
	35		18.3	.6
			18.2	.5
			18.5	.5
			18.8	.5
	39		18.9	.5
	39.5		19.6	.4
4312	40.1		20.0	.4
	41		19.1	.4

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1930phae.proj..089A

	42		19.7 .3
	42.8		20.7 .3
	43.4		20.4 .3
4315	44.4		20.8 .3
	45.5	99.4	19.3 .2
	46.5		19.5 .2
~~4315~~	47.8		20.4 .2
	49		19.5 .2
	50		19.7 .1
	51		20.0 .1
	52		20.6 .1
	53		20.1 .1
	54		21.1 .1
	55		21.8 .0
	56		22.0 .0
	57.2		21.2 .0
	58.4		22.0 .0
	59.2		22.0 .0
	60	99.5	22.9 .0
	61		23.1 16.9
	62		23.8 .9
	62.5		24.7 .9
	63		24.8 .9
	64		26.2 .9
4325	64.4		27.2 .9
	65.4		25.8 .8
	67		25.6 .8
	68		26.5 .8
	69.2		27.1 .8
	70	99.6	27.8 .7
	71		29.9 .7

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1930phae.proj..6..A

	72		29.9 .7
	72.5		30.4 .7
	73.1		30.7 .6
	74		31.8 .6
	75		33.4 .6
	75.9		35.0 .6
	76.3		35.0 .6
	77		36.2 .5
	78.1		39.2 .5
	78.5		39.1 .5
	79.5		40.7 .5
	80.4	99.7	41.8 .5
	81		42.7 .5
	82		45.6 .4
	82.5		46.5 .4
	83		48.1 .4
	83.5		49.6 .4
	84		52.9 .4
	85		54.0 .3
	86		57.7 .3
4337	86.5		59.0 .3
	87		59.9 .3
	88		63.7 .2
	88.5		65.0 .2
	89		66.5 .2
	89.5		68.0 .2
	90		70.7 .2
	90.5		73.6 .1
	91		77.5 .1
	91.5		82.0 .1
4340	92.1	99.8	84.9 .1

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1930phae.proj..000A

	92.5	84.2	.1
	93	80.0	.1
	93.5	75.7	.1
	94	73.1	.1
	94.5	71.0	.1
	95	69.4	.1
	96	64.3	.1
	97	60.4	.0
	97.6	59.0	.0
4344	98	58.6	.0
	99	54.6	.0
	99.6	53.0	.0
	100	52.3	.0
	101	48.7	.0
	101.5	47.8	15.9
	102	45.8	.9
	103	43.6	.9
	103.8	42.1	.9
	104.2	42.1	.9
	105	40.7	.9
	106	38.3	.8
	106.5	37.7	.8
	107	36.0	.8
	108	35.3	.8
	109	34.8	.8
	110	32.6	.7
	111	30.7	.7
	112	29.9	.7
	113	31.0	.7
4351	113.3	31.2	.7
	114	30.9	.6

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1930phae.proj..689A

115.	1000	26.4 .6
116		26.0 .6
117		25.4 .6
117.9		25.9 .6
119		23.8 .6
120		23.1 .5
121		23.0 .5
122		22.2 .5
123		22.0 .5
123.7		20.9 .4
124.5		20.9 .4
125		20.4 .4
		19.9 .4
		19.4 .3
		19.2 .3
		19.1 .3
130		18.7 .3
		18.8 .2
131.7		19.0 .2
132.5		18.1 .2
133.3		18.2 .1
		17.9 .1
		17.6 .1
		17.4 .1
		17.2 .1
		17.5 .0
		16.8 .0
		16.5 .0
141.2		17.0 .0
142		17.0 .0
4367 143.1		17.7 .0

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1930phae.proj..039A

	144	16.8	14.9
	144.7	16.6	.9
4369	145.4	16.9	.9
	146.7	15.5	.9
	148	15.8	.9
	149.3	16.1	.8
	150.5	100.1 15.0	.8
	152	15.4	.8
	153	15.1	.8
	154	15.1	.7
	155.4	15.1	.7
	156.3	16.0	.7
	158	15.9	.7
	159	15.9	.6
	160	15.8	.6
	160.7	15.2	.6
	161.7	15.7	.5
	163	15.0	.5
	164	14.9	.5
	165	100.2 14.7	.5
	166	14.7	.4
	167	14.1	.4
	168	14.5	.4
	169	14.0	.4
	170	14.7	.3
	171	15.0	.3
4383	172.2	16.9	.3
	173	15.6	.3
	174.2	16.0	.2
	175	100.3 15.9	.2
	175.5	16.0	.2
	176.5	14.8	.1

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1930phae.proj..689A

μφ 4593 W458 0.010

	27	103.3	56.6	56.9
	28		57.1	.9
	28.7		57.9	.8
	29.2		57.7	.8
	30		57.2	.8
4290	(30.5)		57.9	.7
	31		57.8	.7
	32		57.0	.7
	33		56.5	.6
	37		56.7	.5
	38		58.7	.4
4294	38.2		57.0	.4
	39		58.4	.3
	~~40~~ 39.9		56.8	.3
	40.6		57.1	.3
	41.8		56.0	.2
	42.5		57.1	.2
4296	43.7		58.2	.2
	44.5		56.5	.1
	45.5		44.9	.1
	46.5		56.1	.1
	47.4		56.1	.0
	48		56.7	.0
	48.5		~~59.1~~ 57.4	.0
	49		~~59.1~~ 57.9	.0
	49.5		59.1	.0
4300	50.2		61.7	55.9
	51		58.3	.9
	52		56.8	.9
	52.7		56.2	.9
	53.5		~~59.4~~	.8

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1930phae.proj..039A

	~~54.5~~	~~57.3~~	
4302	54.4	59.0	.8
	53.3	57.8	.7
4303	56.5	59.7	.7
	57.5	58.0	.6
	59.0	55.9	.6
	60	103.2 58.1	.5
	61	56.5	.5
4306	62	56.4	.4
	63.2	55.5	.4
	64.3	57.5	.3
	65	58.0	.3
4307	~~65~~.8	60.9	.2
	66.5	59.3	.2
	68 ~~67.5~~	57.1	.2
	69	55.0	.1
	70	57.1	.1
	71	57.4	.1
?	71.6	58.7	.1
	72.4	56.3	.0
	74	56.3	.0
	74.5	57.3	.0
4312	75.3	59.0	~~.3~~.9
	76	57.8	.9
	76.7	56.9	.9
λ	77.4	59.5	.8
	78	59.6	.8
4315	79.2	61.3	.7
	80	59.0	.7
	81	56.4	.7
	81.9	58.2	.6

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1930phae.proj..689A

	82.9	57.6	.6
	84.2	59.0	.5
	84.9	58.8	.5
	85.7	59.2	.5
	86.4	58.8	.5
	87.5	58.5	.4
	88.4	60.0	.4
	89.4	60.0	.4
	90	60.4	.3
	90.8	60.1	.3
?	91.9	61.9	.3
	92.9	60.2	.2
	94	62.0	.2
	94.8	62.0	.2
	95.6	63.0	.1
	96.8	62.2	.1
	98	65.0	.0
	99	65.2	.0
4325	99.9	67.9	.0
	101	65.9	53.9
	102	65.8	.9
	103	65.8	.9
	104	67.1	.8
	104.5	67.1	.8
	106	68.8	.7
	106.8	69.1	.7
	107.5	70.2	.7
1	108.5	71.8	.6
	109.5	71.8	.6
	110	103.1 72.4	.6
	111	73.4	.5

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1930phae.proj..689A

	112	74.7	.5
	113	75.8	.4
	114	78.5	.4
	114.8	78.3	.3
	115.7	79.8	.3
	116	79.8	.3
	116.9	82.0	.2
	117.2	81.9	.2
	118	82.5	.2
	118.4	82.5	.1
	119.8	85.6	.1
	120.2	85.8	.1
f332	121.4	88.4	.0
	122	88.8	.0
	123	90.5	.0
	124.5	93.3	52.9
	125	93.3	.9
	125.5	94.9	.9
	126	96.0	.9
	126.5	96.4	.8
	127	97.4	.8
f340	127.7	98.7	.8
	128.5	96.9	.7
	129	95.9	.7
	129.5	95.5	.7
	130	94.0	.7
	131	92.2	.6
	131.7	90.9	.6
4344	132.4	90.9	.6
	133.8	88.0	.6
	135	87.7	.5

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1930phae.proj..689A

	136	85.8 .5
	136.4	85.5 .5
	137	83.5 .4
	138	82.4 .4
	139	81.5 .3
	1492	78.0 .3
	141	77.7 .3
	142	77.5 .2
	143	76.0 .2
	144	74.1 .2
	145.3	70.6 .1
?	146.8	72.0 .1
	148	70.4 .0
4351	149.2	71.0 .0
	150.5	67.8 67.9
	151	67.8 .9
	152	65.8 .9
	152.9	64.3 .9
	153.5	64.8 .8
	154.8	63.1 .8
	156	63.5 .7
	157	62.4 .7
	157.7	62.4 .7
	158.5	61.0 .7
	~~159~~ 160	60.6 .6
	161	59.9 .6
	162	59.7 .5
	162.9	58.4 .5
	163.9	59.1 .4
	165.1	56.9 .4
	166	57.4 .3

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1930phae.proj..639A

	167		57.0	.3
	168.7		56.8	.3
	170.1	103,0	54.7	.2
	171		55.5	.2
	172		55.9	.1
	173		55.5	.1
	173.8		54.4	.0
	175		35.0	.0
	176		54.0	.0
	177		53.0	50.9
	178.1		53.5	.9
	179		54.1	.8
4367	180		55.6	.8
	181.1		53.3	.7
	182		53.7	.7
	182.5		53.6	.7
4369	1832		54.0	.6
	184		53.7	.6
	185.1		51.5	.6
	186		53.1	.5
	186.6		53.3	.5
	187.4		51.9	.4
	188.2		52.2	.4
	189.3		51.4	.4
	190		52.0	.3
	191.4		51.9	.3
4374	192.3		52.8	.3
	193		51.8	.2
	194		50.3	.2
	194.8		51.1	.2
	195.6		50.2	.1

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1930phae.proj..680A

	196.3	51.3	.1
	197	50.9	.1
	198	51.4	.0
	199	51.6	.0
	200	50.5	.0
	201	50.0	~~49.9~~ 0
	202	51.2	49.9
	203	51.0	.9
	204	50.9	.9
	205	50.5	.9
	206	49.9	.8
	207	50.8	.8
	207.5	52.3	.8
	208	52.8	.7
4383	208.7	53.7	.7
	209.2	52.2	.7
	210.1	51.3	.6
	211	52.2	.6
4385	211.4	52.6	.6
	212	51.6	.5
	213.2	49.3	.5
	226.1	49.5	.0
	227	50.8	48.9
	227.2	50.9	.9
	228	52.3	.9
4395	228.6	53.4	.9
	229	52.7	.8
	230	50.0	.8
	231	48.9	.8
	234	48.2	.7
	235	49.9	.7

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1930phae.proj..680A

	236		49.7	.6
4399	237.4		50.8	.6
	238.5		50.7	.5
	239.5		48.7	.4
	243.8		48.1	48.2
	244.4		48.5	.1
	245.		50.0	.1
4404	245.9		51.1	.0
	247		48.0	.0
	263.1		47.5	47.2
	264.1		48.7	.1
	265.3		47.4	.1
	266		48.0	.0
	266.5		48.3	.0
4416	267.2		49.7	46.9
	268		48.8	.9
	269.5		47.6	.8
	270		47.8	.8
	271		46.8	.7
	310	102.9	43.8	44.0
	311		44.7	43.9
	311.5		45.0	.9
	312		46.6	.8
4443	312.9		48.0	.8
	314.5		45.1	.7
	314.5		44.0	.7
	350	102.8	50.8	50.9
	351.2		50.9	.8
	351.8		51.4	.8
	352.7		51.4	.7
	353.5		54.2	.6

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1930phae.proj..689A

4468	353.9	44.6	.6
	354.5	43.3	.5
	355.2	41.3	.4
4469?	356	41.6	.3
	357	40.4	.2
	372	38.8	38.9
	372.5	40.0	.9
	373	40.6	.9
	373.5	42.4	.8
	374	47.0	.8
4481	374.8	55.3	.7
	375.6	50.4	.7
	376	44.5	.6
	376.5	41.7	.5
	377	39.7	.5
	377.7	38.6	.4
4501	391.5		

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1930phae.proj..639A

	0.007	(new pow)			0.000				0.003				0.003			
u	u_0	u/u_0	H	log T	u_0	u/u_0	H	log T	u_0	u/u_0	H	log T	u_0	u/u_0	H	log T
5			–				–		103.6		(3.8)		102.2		17.0	
10			–				–				11.5				24.0	
			–				–				17.0				29.0	
20			–		103.1		4.3				20.4		102.3		32.7	
			–				7.3		103.7		23.3				36.1	
30			–				9.9				26.0				39.1	
			–				13.0				28.3				41.8	
40			–				15.6				30.9		102.4		43.8	
			–				18.2				33.4				46.1	
50			–				20.8				36.1				48.4	
			–				22.8				38.5		102.5		51.0	
60			–				24.9				40.6				53.3	
			–		103.2		27.2				42.9		102.6		56.0	
70	103.3		5.2				29.2				45.4				58.6	
			7.0				32.0		103.8		47.7		102.7		61.7	
80			9.3				35.5				50.2				65.2	
			12.9				39.0				55.1				69.0	
90			17.4				43.3				58.2		102.8		74.7	
			24.0				49.2				64.6		102.9		82.8	
100	103.2		37.5		103.3		61.5		103.9		76.0				–	
			101.9				101.7				100.2				101.2	

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1930phae.proj..689A

μ Ø4557 W468 K 0.011

	21.7	103.2	56.9	56.8
	22.5		57.7	.7
	23		58.1	.6
	24		60.1	.4
	24.5		60.9	.3
	25		61.8	.2
	26		64.3	.1
3930	26.7		65.3	.0
	27.5		63.5	55.9
	28		61.7	.8
	28.5		60.0	.7
	29		58.8	.6
	29.8		57.9	.5
	30.5		59.0	.4
	31		60.9	.3
	31.5		62.6	.1
3932	32.3		63.6	.0
	33		63.3	54.9
	33.5		64.0	.9
	34		66.7	.8
	34.5		72.0	.8
	35		80	.7
	35.5		89	.6
	36		95	.5
3933	36.8		99.1	.3
	37.5		96.8	.2
	38		91.5	.1
	38.5		85.5	.1
	39		78	.0
	39.5		72.1	.0
	40		67	53.9

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1930phae.proj..689A

	40.5	62.0	.8
	41	59.3	.8
	41.5	57.8	.7
	42	57.6	.6
	42.5	58.1	.5
	43.5	61.9	.3
3936	44.2	63.2	.2
	45	61.5	.1
	46	56.5	59.9
	47	53.8	.8
	48	52.9	.7
	48.5	52.7	.6
	49	52.8	.4
	50	103.3 54.8	.2
	50.5	56.8	.1
	51	59.2	.0
3938-39	51.9	62.1	51.8
	53	59.7	.7
	54	57.0	.5
	55	53.5	.4
	56	51.4	.3
	57	50.9	.1
	66.8	49.7	49.5
	68	50.8	.3
	68.5	51.6	.2
	69.5	52.1	.1
	70.5 70.	51.6	48.9
	71.2	51.0	.8
	72	52.1	.7
3945	73	53.8	.5
	74	52.3	.3

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1930phae.proj..089A

	75		103.4	49.9	.1
	76			48.0	.0
	91.5		103.5	45.5	45.4
	92.5			46.7	.3
	93			47.6	.2
3952	93.8			48.7	.1
	95			46.5	44.9
	95.8			45.0	.8
	115		103.7	44.8	42.0
	116			42.0	41.9
	117			41.5	.7
	118			41.7	.6
	119			41.6	.4
	120			42.8	.3
	121			44.5	.2
	121.5			45.2	.1
	122			45.8	.0
3961	122.4			46.3	40.9
	123		103.8	45.7	.9
	124			42.9	.8
	125			42.1	.6
	126			40.9	.4
	127			44.0	.3
	128			41.0	.2
	129			41.2	.1
	129.8			41.1	.0
	131			44.0	39.9
3964	132			45.0	.7
	133			43.9	.6
	134			42.1	.4
	135			43.3	.3

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1930phae.proj..069A

	136		44.9 .1
3966	137.1	1039	46.1 38.9
	138.1		45.8 .8
	139		47.5 .7
	139.5		49.3 .6
	140		52.8 .5
	140.5		58 .4
	141		66 .3
	141.5		77.3 .2
	142		87 .2
	142.5		94.0 .1
3968	143.1		96.8 .1
	143.5		96.0 .0
	144		92.5 .0
	144.5		88.8 37.9
	145.3		84.4 .8
	146		87.7 .7
	146.5		90.6 .6
	147		93.9 .6
3970	147.7		95.8 .5
	148.5		93.5 .4
	149		94.6 .3
	149.5		85.0 .2
	150	1040	78 .1
	150.5		72.5 .1
	151		67.4 .0
	151.5		62.2 .0
	152		58.8 36.9
	152.5		56.3 .8
	153		53.6 .7
	153.5		50.7 .7

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1930phae.proj..689A

	154	49.0	.6
	154.5	47.7	.5
	155	46.5	.4
	155.5	45.4	.4
	156	44.0	.3
	156.5	43.6	.2
	157.1	43.7	.1
	157.7	43.5	.1
	158.5	44.6	.0
	159	45.8	35.9
3974	159.9	46.8	.8
	161	43.6	.7
	162	40.6	.5
	163.4	39.6	.2
	164.4	37.3	.2
	165	36.8	.1
	166	36.2	.0
	167	35.8	34.9
	168	35.4	.7
	169	35.6	.5
	170	35.6	.3
	171	35.1	.2
	172	34.9	.1
	173	34.5	33.9
	174	34.0	.8
	174.5	34.5	.7
	175.5	35.0	.6
	175.5	36.9	.5
3979	176.3	38.3	.4
	177	36.5	.3
	178	33.1	.2

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1930phae.proj..009A

	179		32.7	.0
	180	104.1	32.9	32.9
	181		33.7	.8
	1816		34.7	.7
	182		34.8	.6
	182.7		35.2	.5
	184		34.2	.3
	185		33.4	.2
	186.8		32.7	.1
	186.5		32.6	.0
	187.7		31.8	31.8
	238.2	104.4	26.4	26.4
	239		27.1	.3
	239.8		28.2	.2
	240.1		28.3	.2
	241		31.9	.1
4002	241.5		33.7	.1
	242		33.2	.1
	242.5		32.5	.0
	243	104.5	31.1	.0
	244		28.9	25.9
	245		27.7	.8
	246	104.5	26.3	.9
	247		26.0	.6
	248		25.8	.5
	249		26.3	.3
	250	104.6	27.3	.2
4005	250.9		29.5	.1
	251.7		29.5	.1
	252.5		27.0	.0
	253.5		25.1	24.9
4028	316.3			

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1930phae.proj..689A

54

μΦ4559 W468 S D.004
(v.p.)

4046	17.7			
4053	39.5			
4063	66.7			
4071	~~136.8~~ 86.8			
4077	102.1			
	120	103.7	42.8	42.3
			.7	.3
			.7	.2
			.8	.1
			.9	.1
	125		43.0	.0
			.0	41.9
			.0	.9
			42.5	.8
			.5	.7
	130		.6	.7
			.6	.6
			.5	.6
			41.9	.5
			.5	.5
	135		.6	.4
			.4	.3
			.4	.3
			.3	.2
			.2	.1
	140	~~103.8~~	.7	1
			42.2	.0
			.3	40.9
			.4	.9
			.7	.8
	145		.9	.7

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1930phae.proj..089A

	146	42.8 .7
		.8 .6
		.9 .5
		.8 .4
	149.5	.7 .4
	150	42.8 .3
		43.7 .3
		44.4 .2
		44.9 .2
		45.3 .1
	155	46.6 .0
		48.2 .0
		50.4 .0
		53.6 39.9
		57.8 .9
	160	63.5 .8
	160.5	67.5 .8
	161	72.8 .7
	161.5	78.8 .7
	162	84.5 .6
	162.5	89.4 .6
4(01	163.1	91.8 .6
	163.5	90.9 .5
	164	87.5 .5
	164.5	83.0 .4
	165	76 .4
	165.5	71 .4
	166	66 .3
	166.5	62.4 .3
	167	59.5 .2
	167.5	56.5 .2

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1930phae.proj..689A

	168	54.3	.2
	169	50.7	.1
	170	48.4	.0
	171	46.7	.0
	172	45.2	38.9
	173	44.0	.8
	174	43.0	.8
	175	42.4	.7
	176	41.8	.6
	177	41.2	.6
	178	40.7	.5
	179	40.1	.4
	180.4	39.8	.4
	181.5	40.1	.3
	182.5	41.0	.2
	183.8	41.0	.1
	184.5	41.7	.0
4/18	185.7	43.1	.0
	186.5	42.7	37.9
	187	41.6	.9
	188	40.3	.9
	189	39.8	.8
	190	39.4	.7
		39.0	.7
		38.8	.6
		.4	.5
		.3	.5
	195	37.8	.4
		.3	.4
		.3	.3
		.3	.3

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1930phae.proj..689A

199		37.2	.2
200		.3	.2
		.2	.1
		.2	.1
		.4	.0
		.7	.0
205		38.1	.0
		38.7	36.9
206.4		38.8	.9
207		38.5	.9
208		37.9	.8
		.8	.8
210		.8	.7
4122	214.3		
4128	227.4		
4131	233.8		

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1930phae.proj..689A

58

α 4558 W 468 δ 0.005

	13.1	102.8	80.1	29.6
	14		31.1	.5
	14.7		31.1	.4
	15.5		34.8	.3
	16		36.7	.2
4012	16.8		39.1	.2
	17.5		35.1	.1
	18		32.3	.0
	19		29.8	.0
	20		29.0	28.9
	21		29.0	.8
	22		29.6	.7
	23		30.0	.6
	24		30.4	.5
	25		32.4	.4
4015	25.3		32.9	.4
	26		32.0	.3
	27		28.8	.2
	28		28.1	.1
	45	102.9	27.0	26.4
	46		27.1	.3
	47		29.0	.2
4023	47.4		29.3	.2
	48		29.2	.2
	48.9		28.9	.1
	49.5		29.9	.1
4024	50.8		34.7	.0
	51.5		33.0	.0
	52.4		32.0	25.9
	52.5		30.6	.9
	53.5		28.1	.8

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1930phae.proj..689A

	54.5	28.8	.8
4022	55.3	29.6	.7
	56	28.5	.6
	57	26.8	.5
	58	25.7	.4
	59.5	26.1	.4
	60.5	29.4	.3
4028	61.3	31.2	.2
	62	29.9	.2
	63	26.8	.1
	64	25.9	.1
	65.4	25.1	.0
	72.2	25.9	24.5
	73	27.2	.4
	73.9	28.6	.3
	74.5	27.3	.3
	75.8	24.2	.2
	106.8	103.0 22.6	22.1
	108	25.4	.0
4046	108.9	28.1	21.9
	110	25.3	.9
	110.7	23.0	.8
	112	22.1	.8
	114	21.7	.7
	115	22.1	.6
	116	23.4	.6
4048	117.2	25.1	.5
	118	24.4	14
	119	21.8	14
	120	21.1	.3
	122	21.4	.2

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1930phae.proj..689A

	123		21.8	21.2
	123.9		22.7	.1
	124.3		22.7	.1
4052	125.3		24.0	.1
	126		22.8	.0
	127		21.3	.0
	128.2		21.2	20.9
	129		22.3	.9
	130		25.9	.8
	130.4		26.3	.8
	131		25.9	.7
	132		22.6	.6
	132.5		21.1	.6
	134		20.2	.5
	154.7	103.1	19.2	18.9
	155.5		20.9	.9
4063	156.7		23.4	.9
	157.5		21.3	.8
	158		19.9	.8
	159		19.2	.8
	163		18.7	.5
	164		19.8	.5
	165		23.4	.4
4067	165.6		25.2	.4
	166.5		23.0	.3
	167.5		19.7	.3
	168.4		19.0	.2
	172	103.2	18.0	.0
			19.1	.0
			19.0	17.9
	175		18.9	.9

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1930phae.proj..089A

	176	19.5	.9
	176.8	19.8	.8
4071	177.8	21.1	.8
	179	18.9	.7
	180	18.8	.7
	181	18.3	.6
	182	17.5	.5
	186.2	17.4	17.3
	187.6	19.1	.2
	188.5	18.9	.2
	189.5	18.1	.1
	190.8	103.3 19.0	.1
	191.5	18.9	.0
	192.5	20.3	.0
	193	20.7	16.9
4077	193.4	21.3	.9
	194	20.9	.9
	195	17.9	.8
	196	17.0	.8
	210	16.6	16.2
		16.5	.1
		16.4	.1
		16.8	.1
		16.7	.1
	215.2	17.5	.0
	216.6	16.0	.0
	218	17.1	.0
	219	16.7	15.9
	220	16.7	.9
		16.7	.9
		16.2	.8

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1930phae.proj..689A

	223	16.3	.8
	224	16.0	.8
	225	16.2	.7
defect<	226	16.0	.7
	237	15.9	25.2
	238	16.0	.2
	239	15.9	.2
	240	16.2	.1
	241.1	17.0	.1
	241.8	15.7	.1
	243.2	1034 17.9	.1
	243.8	17.7	.0
	245	18.7	.0
	246.3	18.8	.0
	247	19.9	.0
	248	20.2	24.9
	249	23.1	.9
	250	27.5	.9
? defect	251	30.4	.9
	252	38	.8
	252.5	47.5	.8
	253	59	.8
	253.5	70.5	.8
4101	254.2	76.8	.7
	255	1035 69	.7
	255.5	59.2	.7
	256	49	.7
	256.5	39	.7
	257	32.8	.7
	258	27.7	.6
defect<	258.9	25.7	.6

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1930phae.proj..039A

	263		17.9	14.4
	263.5		18.1	.4
	264		17.1	.4
	265	103.6	16.5	.3
	266		16.5	.3
	267		16.0	.2
	268.5		16.4	.2
	269.5		15.4	.2
	270.5		15.0	.2
	271.5		15.0	.1
	272.8		14.9	.1
	273.5		15.4	.1
	274.5		15.9	.0
	275.8		15.5	.0
	276.5		16.8	.0
4111	277.1		17.4	.0
	278		15.7	13.9
	279		15.1	.9
	280	103.7	14.8	.9
	281		14.4	.9
	282		14.7	.8
	282.5		14.9	.8
	283.4		14.4	.8
	285		14.0	.7
	286		13.4	.7
	287		13.5	.7
	288		13.9	.6
	289		14.0	.6
	290		13.5	.5
	291		13.8	.5
	291.8		14.0	.4

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1930phae.proj..689A

	293	13.7	.4
	294	13.7	.3
	295	13.9	.3
	296	14.0	.3
	297	14.5	.3
	297.4	14.9	.2
	298	14.3	.2
	299	13.7	.2
	300	14.3	.1
4122	305.6		
4128	318.4		
4131	325.1		

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1930phae.proj..689A

μ Ø 4560 W468 r-δ 0.005

	32.5	103.7	54.0	53.7
	34		54.6	.5
	35		55.6	.4
	36		60.8	.3
	37		68.0	.3
4128	39.5		68.4	.2
	38		68.4	.2
	39		63.5	.1
	39.5		60.9	.1
	40		58.7	.0
	41		55.2	0
	41.5		54.7	52.9
	42		55.1	.9
	43		61.6	.8
4131	44		67.2	.7
	45		62.6	.7
	46		56.8	.6
	46.5		55.9	.6
4132	(47.)		55.9	.5
	48		54.9	.4
	49		48.7	.3
	50		42.8	.2
	51		42.2	.1
	71.7	103.5	51.1	50.8
	72.5		51.8	.7
	73.5		53.7	.6
4143	74.3		55.0	.5
	75.5		53.4	.4
	76.7		52.1	.3
	77.5		52.9	.2
	78		52.9	.2

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1930phae.proj..689A

	78.5		53.9	.2
4146	79.2		54.8	.1
	80		53.6	.1
	81		50.9	.0
	81.5		50.9	.0
	122	103.4	48.1	48.0
	123		48.7	47.9
	124		49.6	.8
	125		50.3	.7
	125.4		50.5	.7
4161	126.1		51.0	.6
	127		50.0	.5
	127.5		48.7	.5
	128.2		48.1	.4
	129		48.7	.4
	130		50.9	.3
	131		54.4	.2
4163	132.5		55.3	.2
	132		54.5	.1
	133		50.0	.1
	134		48.0	.0
	135		47.0	.0
	136		46.1	46.9
	136		46.7	46.2
	137		47.0	.2
	137.5		47.8	.1
	138.4		47.8	.1
	139		48.7	.0
	140		52.4	.0
4172	140.7		53.3	45.9
	141.5		52.6	.9

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1930phae.proj..689A

	142.2	51.4	.8
	143	54.0	.8
	143.5	59.1	.7
4173	144.3	64.8	.7
	145	61.0	.6
	146	51.8	.5
	146.5	48.0	.5
	147	42.0	.4
	148	46.0	.3
	149	46.0	.3
	150	1033 45.9	.2
	151.5	45.9	.2
	152	46.7	.1
	153	51.3	.1
4177	154.1	56.0	.0
	154.8	55.2	.0
	1555	59.0	44.9
	156	63.8	.9
4179	156.7	62.1	.8
	157.5	62.8	.8
	158	58.8	.8
	159	49.7	.7
	160	45.9	.7
	161	44.4	.6
	174	44.0	43.6
	175	44.7	.5
	175.5	44.7	.4
4188	176.7	45.7	.3
	177.5	45.3	.3
	178.7	43.0	.2

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1930phae.proj..689A

	237	103.2	38.0 32.9
	237.5		38.5 .9
	238		39.3 .8
4215	239		41.1 .7
	239.5		40.6 .7
	240.3		38.7 .6
	241.2		38.4 .5
	242		37.1 .5
	257		36.1 36.1
	258		36.7 .0
	259		38.7 35.9
4224	259.5		39.4 .9
	260		39.1 .8
	261		37.7 .7
	262		36.6 .6
	263		37.0 .5
	263.5		37.4 .4
4227	264.2		38.1 .4
	265		37.7 .3
	266		36.0 .3
	266.8		35.1 .2
	274.3		35.0 34.6
	275		36.6 .5
	275.5		38.7 .4
	276		45 .3
	276.5		64.2 .3
4233	277.2		63.1 .2
	278		55 .2
	278.5		46.8 .1
	279		40.6 ✓
	280		35.7 .0

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1930phae.proj..039A

	281	34.9	.0
	281.4	34.7	33.9
4135	282.5	35.0	.8
	283.5	34.7	.7
	284.7	33.8	.6
	294	33.1	33.0
	295	33.7	32.9
	296	38.0	.9
4242	297.1	43.2	.8
	298	39.4	.7
	299	33.9	.7
	300	103.1 32.3	.6
	304.3	33.1	32.2
	305	34.1	.1
	306	37.8	.1
4247	306.7	39.8	.0
	307.5	36.0	.0
	308.7	32.5	31.9
	327.5	30.8	30.7
	328	31.0	.5
	329	34.6	.4
4258	329.9	37.7	.4
	331	33.4	.3
	332	31.4	.2
	333	31.0	.2
	334	31.7	.2
4260	334.5	32.1	.1
	335.3	31.4	.1
	336	32.4	.0
	336.5	34.0	.0
4262	337.3	36.7	29.9

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1930phae.proj..689A

	338		34.7	.9
	339		31.0	.8
	340		29.4	.7
	350	103.0	30.0	29.2
			29.5	.1
4269	352		31.0	.1
			30.6	.0
	354		29.1	.0
	355.5		29.0	28.9
	356		30.0	.9
	356.5		31.6	.9
4271	357.2		32.8	.8
	358		31.4	.8
	359		30.1	.7
	360		35.5	.6
4273	360.5		32.0	.6
	361		35.4	.5
	362		30.7	.4
	363		29.1	.4
	364		30.3	.3
	364.5		31.6	.3
4275	365.2		33.2	.2
	366		30.7	.1
	366.4		28.9	.1
	367.5		27.6	.0
	368.5		28.0	.0
	369.5		30.2	27.9
4278	370.3		31.3	.9
	371		29.7	.9
	372		28.2	.8
	373		27.8	.8

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1930phae.proj..089A

μφ 4562 w468 δ 0.004

	4	101.9	47.3	47.4
	5		48.2	.3
4282	(6)		49.0	.2
	7		49.0	.2
	8.2		48.6	.1
	9		51.0	.0
4284	9.8		52.3	.0
	10.7		49.0	46.9
	11		48.0	.9
	12.5		47.1	.8
4286	13.7		48.7	.7
	14.5		47.3	.6
	15.3		46.7	.6
	16.5		49.0	.5
4288	17.2		50.0	.4
	18		49.9	.3
	19.2		46.1	.3
	20		47.8	.2
	21		54.0	.2
4290	21.8		56.3	.1
	22.5		57.0	.1
	23		49.0	.0
	24		46.6	.0
	25		46.4	45.9
	26.3		46.2	.9
	27		46.8	.8
	28		48.8	.8
	29		55.6	.7
4294	29.6		57.5	.6
	30	101.8	55.9	.5
	31		47.9	.5

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1930phae.proj..689A

	31.8		46.0	.4
	32.5		47.0	.3
	33.5		54.1	.3
4296	34.2		58.1	.2
	35		54.6	.1
	36		46.8	.1
	37		45.1	.0
	38		44.3	.0
	39		46.1	44.9
	40		51	.9
	40.5		56.0	.9
	41.1		60.4	.8
	42		54.6	.7
	43.2		47.1	.7
	44		49.0	.6
4302	45.1		52.1	.5
	45.9		51.9	.5
	46.5		56.4	.4
4303	47.4		63.7	.4
	48		59.0	.3
	49		49.5	.2
diffct	50		47.0	.1
	54	101.7	44.8	43.9
	55		47.6	.8
	55.5		50.5	.8
4308	56.3		53.5	.7
	57		51.4	.7
	58		45.8	.6
	59.2		43.8	.5
	64		43.5	.2
	65		45.8	.1

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1930phae.proj...089A

	65.5	49.0	.1
	66.3	52.3	.0
	67.4	49.4	42.9
	68.5	54.0	.9
4345	69.3	56.4	.8
	70	55.4	.7
	70.5	52.5	.6
	71	49.8	.6
	71.5	46.3	.6
	72	45.0	.5
	defect		
	86	101.6 41.1	41.6
	87	41.7	.5
	87.5	42.7	.5
	88	43.2	.4
	89	45.5	.4
	90	48.4	.4
1326	90.5	49.1	.4
	91	48.7	.3
	92	45.3	.3
	93	48.3	.3
	94	42.4	.3
	95.7	41.0	.2
	96.2	41.9	.2
	97	41.5	.2
	98	42.1	.2
	99	43.7	.1
	99.8	44.7	.1
	100.5	44.1	.1
	101.5	42.4	.1
	02.5	43.0	.0
	03.5	42.8	.0
	04.3	43.3	.0

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1930phae.proj..689A

	105.5	42.0	.0
	106.5	43.0	.0
	107	43.2	40.9
	07.5	43.5	.9
	08	43.4	.9
	09	44.3	.9
	09.8	44.7	.9
	10.2	44.6	.8
	11	46.0	.8
	12	48.0	.8
	13	53.4	.8
	13.5	57.2	.7
	14	59.7	.7
4338	14.7	60.8	.7
	15	101.5 60.8	.7
	15.5	62.4	.7
	16	64.8	.6
	16.5	69.9	.6
	17	75	.6
	17.5	82.7	.6
	18	87.7	.6
4340	18.4	88.9	.5
	19	81.5	.5
	19.5	82.9	.5
	20	76.5	.5
	20.5	70	.5
	21	64.5	.5
	21.5	692	.4
	22	56.9	.4
	22.5	54.0	.4
	23.3	52.2	.4

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1930phae.proj...089A

	124	51.3	.4
4344	124.5	51.4	.4
	125	51.0	.4
	126	48.8	.3
	127	45.6	.3
	128	43.5	.3
	129	43.6	.3
	130	43.2	.2
	131.4	42.0	.2
4349	132.9	48.8	.2
	134	42.0	.2
	135	41.3	.1
	136.2	41.3	.1
	132.3	42.9	.1
	138	45.0	.1
	39	54.5	.0
	39.8		
4351	~~40.8~~	63.1	.0
	40.5		
	~~41.5~~	101.4 56.5	.0
	41	49.6	.0
	42	42.4 ~~38.7~~	
	43.2	40.7	.9
	44	41.7	.9
4354	44.4	42.3	.9
	45	42.2	.9
	46	41.1	.8
	47	39.6	.8
	48	39.3	.8
	49	41.1	.7
	50	42.1	.7
4357	50.7	42.6	.7
	51.8	40.3	.7

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1930phae.proj..689A

	~~158.5~~	~~40.9~~	
	167	39.4	39.2
	168	41.3	.2
4367	169.1	44.1	.2
	170	42.5	.1
	170.6	41.9	.1
	71.5	43.4	.1
4369	72.1	44.3	.1
	73	42.0	.1
	74.2	39.4	.0
	79	38.8	.0
	80	~~104.3~~ 39.9	.0
	81	41.3	.0
4374	81.8	42.2	.0
	82.5	41.4	.0
	83.5	39.1	38.9
	95.8	38.9	.7
	97	42.7	.6
	97.5	45.9	.6
	98	48.1	.6
4383	98.4	49.6	.5
	99	50.4	.5
	99.5	51.7	.5
	200	53.2	.5
4385	200.7	55.6	.4
	01.5	51.7	.4
	02.5	42.8	.4
	03.5	42.1	.4
	04.5	40.5	.3
4388	05.4	40.9	.3
	06.5	39.7	.3

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1930phae.proj..089A

	208	38.6	.3
	209	39.8	.2
	210	43.4	.2
4391	10.4	44.0	.2
	11	42.7	.2
	12	39.1	.1
	13.3	37.4	.1
	14.5	38.8	.1
	15.5	40.0	.1
	16.5	43.0	.0
	17.5	48.4	.0
4395	18.3	52.7	.0
	19	50.4	.0
	20	43.4	.0
	21.2	38.5	32.9
	22.3	38.3	.9
	23.2	39.0	.9
	24.1	38.5	.9
	25.2	101.3 39.0	.9
	26	41.3	.8
4399	27.1	45.1	.8
	28	43.6	.8
	29	39.4	.8
	30	32.4	.7
	31	38.0	.7
4402	32.1	38.4	.7
	33	37.9	.6
	34	38.1	.6
	35	39.7	.6
	35.8	41.4	.5
4404	36.5	39.6	.5

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1930phae.proj..089A

	37.5	37.8	.5
	38	35.7	.5
	49.5	37.1	.1
	51	38.3	.0
4415	51.9	39.8	.0
	53	39.6	36.8
	53.4	39.3	.9
	54.5	40.4	.9
	55.	40.4	.8
	55.5	42.0	.8
	56	46.9	.8
4417	57	53.7	.7
	57.5	50.0	.7
	58	48.8	.7
	58.5	46.7	.6
	59	44.5	.6
	59.5	42.7	.6
	60.7	38.0	.5
	67.3	37.1	.4
	62.9	36.4	.4
	85	35.8	35.1
	86	37.6	.0
4434	86.7	38.1	.0
	88	36.0	34.9
	99	103.2 34.4	34.3
	900	34.7	.2
	01	35.4	.1
	01.7	35.6	.1
	02.5	37.7	.0
	03.5	44.0	33.9
4444	04	45.7	.9

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1930phae.proj...039A

	04.5	43.9	.9
	05	40.5	.8
	06	35.0	.8
	07	33.8	.7
	12.8	33.8	33.2
	14	35.8	.1
4450	15.2	37.6	.0
	16	37.1	.0
44--	16.8	37.2	32.9
	18	34.4	.8
	19	32.9	.8
	20	32.7	.7
	21	32.1	.6
	22	33.7	.5
	23.1	35.0	.4
4455	24	34.2	.3
	25	32.4	.2
	31.2	31.6	31.8
	32.0	32.3	.7
4461	33.1	34.8	.6
	34	34.0	.6
	35	31.8	.5
	36	31.3	.4
	37	32.7	.3
4464	37.8	34.7	.3
	39	32.7	.2
	39.7	31.3	.1
	41	31.5	.0
	42.5	31.3	30.9
	43.5	34.1	.8
4468	44.7	41.8	.7

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1930phae.proj..089A

	45.5	37.0	.7
	46	33.6	.6
	47	31.1	.5
	48	32.4	.4
4471	49.2	33.9	.3
	50.3	33.1	.2
	51.5	33.9	.1
4473	51.9	34.1	.1
	53	32.0	.0
	54	30.0	29.9
	62.8	29.9	.3
	63.5	31.3	.2
	64	34.3	.2
	64.5	41.5	.1
	65	52	.1
4481	65.6	61.2	.1
	66	54.5	.0
	66.5	43.3	.0
	67	35.5	.0
	67.5	30.9	28.9
	68.5	28.8	.9
	74	28.4	28.3
	75	29.3	.3
	76	31.5	.2
	77	35.1	.1
4491	77.9	38.4	.1
	79	32.3	.0
	78.8	29.5	27.9
	80.5	32.3	.9
4501	81.3	37.1	.8
	82	34.3	.8
	83	29.3	.7
	83.6	27.8	.7

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1930phae.proj..089A

μ Ø 4561 W46 8 δ 0.004

4303	2.5			
4308	6.8			
4313	16.7			
4315	19.6			
	28	102.5	15.0	14.2
			15.0	.2
	30		14.9	.2
	31		16.7	.2
4321	31.8		17.7	.2
	32.5		16.5	.1
	33		15.6	.1
	34		14.0	.1
	35		14.0	.1
			14.0	.1
			14.0	.1
			15.0	.1
			15.2	.0
	40		16.8	.0
	40.5		17.6	.0
4326	41.2		18.2	.0
	42		12.0	.0
	43		15.0	.0
	44		14.3	.0
	45		13.9	13.9
			13.8	.9
			13.7	.9
			14.0	.9
	49.		15.8	.9
4330	49.9		15.9	.9
4	51		15.2	.8
			14.4	.8
			14.2	.8
			14.1	.8
	55		14.4	.8
			14.1	.7

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1930phae.proj..089A

	59	14.5	.7
		14.8	.7
		14.8	.7
	60	15.2	.7
	61.2	15.8	.7
	62	17.0	.7
	63	18.5	.6
	63.5	21.0	.6
	64	24.1	.6
4338	64.8	26.7	.6
	65.6	26.2	.6
	66.	26.8	.6
	66.5	29.9	.6
	67	35.0	.6
	67.5	43.5	.5
	68	55	.5
4340	68.8	65.5	.5
	69.5	61.0	.5
	70	54	.5
	70.5	44.4	.5
	71	37.5	.5
	71.5	30.9	.4
	72	26.9	.4
	72.5	24.0	.4
	73	21.3	.4
	~~74~~ 73.5	20.4	.4
	74	19.7	.4
	74.8	18.7	.3
4344	75.8	19.1	.3
	76.5	18.1	.3
	77.5	16.3	.3

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1930phae.proj..039A

	78.5	15.0	.3
	79.8	14.9	.3
	80	14.3	.3
	81	14.0	.2
	82	13.6	.2
	83	13.9	.2
	84	13.7	.2
	85	13.7	.2
	86	13.3	.1
	87.3	13.9	.1
	88.3	14.5	.1
	89	18.3	.1
	89.5	22.2	.1
4351	90.2	29.1	.1
	91	24.0	.1
	92	15.9	.0
	92.5	14.4	.0
4354	93.4	15.8	.0
	94.3	13.8	.0
	95	14.0	.0
	96	13.3	.0
	97	12.9	.0
		12.9	.0
		13.0	12.9
	100	13.6	.9
	101	14.1	.9
	102	13.8	.9
	102.6	14.1	.9
	103.5	13.0	.9
	105	12.5	.8
	106	13.0	.8

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1930phae.proj..689A

	107	13.2
		13.8
		13.8
	110	13.7
4367	119.8	
4369	122.5	
4385	151.3	
4391	161.0	
4395	168.7	
4417	217.2	

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1930phae.proj..689A

Measures very doubtful, on account of flexure?

		0.001				0.000				0.005				0.005	
u	u_0	u/u_0	H	log T	u_0	u/u_0	H	log T	u_0	u/u_0	H	log T	u_0	u/u_0	H	log T
5			–				–		102.9		14.0		102.9		24.5	
10			–		104.9		6.1				21.6				32.2	
			–				10.8				26.9				36.9	
20			–				15.3				30.3				40.4	
			–				18.0				33.3				43.5	
30			–				20.2				35.9				46.3	
			–				23.2				38.6				48.8	
40			–				25.6				41.0				50.9	
	102.0		8.5				27.8				43.0				53.3	
50			9.6		105.0		30.0				45.0				55.8	
			11.1				31.9				46.9				58.1	
60			13.0				34.1				48.9				60.6	
			14.7				36.6 38.1		102.8		51.4				63.0	
70			16.8				38.1				53.9				65.1	
			19.2				40.1				56.3				67.8	
80			22.3				42.2				59.1				70.2	
			25.1 28.0				44.9				62.8				74.2	
90			28.0				48.3				66.2				78.4	
			33.2				53.2				71.9				85.0	
100			(43)				59.2				(85)				—	
H_0			(101.7)				(100.2)				(100.7)				(101.7)	

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1930phae.proj..689A

μφ W443 N-He 0.005

3930	19.1			
	29	99.7	25.3	25.4
	24		25.6	.2
	25		26.1	.1
3932	25.7		26.6	.0
	26.4		26 ✓	.0
	27		26.9	24.9
	27.5		28.3	.9
	28		29.7	.8
	28.5		33.2	.7
	29		40	.7
	29.5		50	.6
3933	30 ✓		68.0	.5
	30.5		65	.5
	31		55	.4
	31.5		40	.3
	32		33.6	.3
	32.5		29.9	.2
	333	99.6	26.0	.1
	34.3		25.3	.0
	35		24.3	.0
	36		24.1	23.9
	60.5 ~~61.8~~	99.3	21.1	21.0
	61		22 ✓	20.9
3944	61.8		23.7	.9
	62.5		22.8	.8
	63.5		20.7	.7
	64.7		21.6	.6
	66		20.8	.6
	67	99.2	20.3	.5
	68		20.7	.4
	69		20.1	.3

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1930phae.proj..039A

	70	20.8	.2
	70.8	20.7	.1
	71.9	21.5	.0
	72.5	21.1	.0
	73.8	21.1	19.9
	74.5	20.6	.9
	76	20.7	.7
	77	20.7	.6
	78	20.8	.6
	79.1	19.9	.5
	80	99.1 20.2	.4
	81	20.3	.3
	82	20.8	.3
	82.8	21.4	.2
	84.2	20.4	.1
	85	20.9	.0
	86	21.1	.0
	87	21.0	18.9
	88	21.1	.8
	89	20.5	.7
	90	20.7	.6
defect	91	21.7	.3
	95	99.0 21.8	.2
	96	21.8	.1
	96.6	21.7	.1
	97	22.0	.0
	98	22.8	.0
3956?	98.4	23.7	17.9
	99	23.0	.9
	100	23.1	.7
	101	23.1	.7

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1930phae.proj..689A

	102.1	24.0	.6
	103	23.5	.5
	103.9	23.1	.4
	105.1	24.3	.3
	106.2	23.8	.3
	107	24.3	.2
	108	24.1	.1
	108.5	24.2	.1
	109	24.8	.1
	119.1	98.9 26.8	.0
	11	26.8	16.9
	12	27.2	.9
	12.5	27.8	.8
	13.1	27.8	.8
	14	29.2	.7
3961	15.2	32.2	.6
	16.2	30.6	.5
	17	30.8	.4
	18	31.1	.3
	18.5	91.1	.3
	19.5	33.0	.2
	20.5	33.2	.2
	21.3	33.2	.1
	22	33.7	.0
	22.5	34.7	.0
	23.5	35.7	.0
	24	37.1	15.9
	25	98.8 38.7	.8
	25.5	39.3	.8
	26	39.3	.7
	27	39.8	.6

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1930phae.proj..089A

	128	42.3	.6
	128.5	42.5	.5
	129.5	43.9	.4
	130	44.3	.3
	130.5	45.7	.3
	31	47.1	.2
	31.5	48.4	.2
	32	49.6	.2
	32.5	50.7	.1
	33	51.6	.1
	33.5	52.4	.1
	34	53.7	.0
	34.5	55.6	.0
	35	59	.0
	35.5	63.8	14.9
	36	69	.9
3868	36.5	71.7	.8
	37	70.3	.8
	37.5	68.0	.7
	38.1	65.8	.7
	38.5	66.7	.7
	39	68.7	.6
	39.5	70.4	.6
	40	72.8	.6
	40.5	75.1	.5
3970	41.1	76.2	.5
	41.5	74.9	.5
	42	71.6	.5
	42.5	69.0	.4
	43	98.7 67.3	.4
	43.5	64.8	.3

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1930phae.proj..089A

44.1		63.9	.2
45		59.4	.2
45.5		58.1	.1
45.8		54.1	.1
46.5		54.9	.1
47		53.3	.0
47.8		51.7	.0
48.1		51.1	.0
49		47.9	13.9
49.6		47.6	.9
50		47.1	.8
51		44.3	.8
52.2		41.7	.7
52.5		41.7	.7
53.4		38.5	.6
53.7		36.7	.5
55.5	98.6	36.6	.4
56.4		34.1	.3
57		34.1	.2
58		32.7	.2
59.5		30.0	.1
60		30.0	.0
61		28.8	.0
61.4		28.7	12.9
62.3		26.4	.9
63.2		26.8	.8
64		26.0	.7
65	98.5	24.9	.7
65.5		24.7	.6
66		24.0	.6
67		22.3	.5

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1930phae.proj..089A

68		21.9	.4
68.5		21.9	.4
69		21.3	.3
69.5		21.3	.3
70		21.0	.2
71		19.9	.2
72	98.4	19.3	.1
73		18.6	.1
74		18.4	.0
75		17.9	11.9
76		16.9	.8
76.9		17.2	.7
78		16.2	.6
79		15.8	.5
80		15.0	.5
81		15.0	.4
82		14.8	.3
83	98.3	14.5	.2
84		13.9	.1
85		13.3	.1
86		13.2	.0
87		13.1	10.9
88		13.0	.9
89		13.0	.8
90		12.9	.7
91		12.4	.7
92		12.3	.6
93	98.2	12.2	.5
94		11.7	.4
95		11.4	.3
96		11.0	.2

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1930phae.proj..689A

	97	10.8	.1
	98	10.9	.0
	99	10.5	.0
	200	10.7	9.9
	01	10.3	.9
	02	10.1	.8
3997?	02.6	10.3	.7
	04	10.0	.6
	05	98.1 9.8	.5
	06.5	10.1	.4
	07	9.7	.3
	08	9.5	.3
	09	9.3	.2
	10	9.2	.1
	11	9.1	.0
	12	9.0	8.9
	133	9.3	.8
	14	9.0	.8
	15	98.0 8.8	.7
	16	8.8	.6
	17	8.6	.5
	18	8.4	.4
	19	8.8	.3
	20	8.7	.3

4005 (242.5)

4012 (262.3)

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1930phae.proj..089A

μ Ø 4556 W443 IR 0.008

3930	(14.3)			
	19.2	100.8	52.9	52.7
	20		54.0	.6
3932	20.6		54.8	.4
	21.1		54.9	.3
	21.5		55.3	.3
	22		56.5	.2
	22.5		58.6	.1
	23		63	.0
	23.5		70.7	.0
	24		79	51.9
3933	24.7		82.7	.8
	25.5	100.7	76.8	.6
	26		81.2	.4
	26.5		64.8	.3
	27		58.7	.2
	27.5		56.6	.1
	28		54.6	.1
	28.5		53.3	.0
	29		52.5	50.9
	29.5		51.8	.8
	30		51.4	.7
	45			
	~~50~~	100.5	48.3	48.1
			47.2	.0
			47.7	47.9
			47.5	.7
	.		47.5	.5
	50		47.6	.4
			47.3	.2
			47.9	.0
			48.1	46.8

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1930phae.proj..089A

	54			47.7	.7
	55.3			47.5	.5
	56			48.1	.4
3944	57			49.6	.2
	58			48.6	.1
	59			46.8	.0
	60		100.4	46.7	45.8
				46.7	.6
				46.7	.4
				46.3	.3
				46.0	.2
	65			45.9	.0
				46.3	44.9
				47.3	.8
	67.5		100.3	47.8	.8
	68			47.0	.7
				46.0	.5
	70		100.2	46.2	.3
				46.3	.2
				46.0	.0
	73.2			44.6	43.9
	74			45.1	.8
	75		100.1	45.9	.7
	76			45.8	.6
	76.7			46.2	.5
	77.5			46.1	.3
	78.5			46.4	.1
	79.7			46.4	.0
	80.8		100.0	47.7	42.9
	82			47.2	.6
	83			47.1	.5

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1930phae.proj..039A

	84	46.5	.4
	85	46.9	.2
	86	46.1	.1
	87	46.5	41.9
	88	46.7	.8
	89	47.0	.7
	90	46.9	.6
	91	47.1	.4
	91.6	47.8	.3
	93.2	48.0	.1
	94	49.0	.0
	95	49.9	40.8
	96	50.0	.7
	97.5	50.0	.4
	98.5	49.5	.3
	99	49.7	.2
	100	50.2	.1
	01	51.1	.0
	02	50.6	39.9
defect?	02.5	53.1	.8
	03	53.0	.7
	04	53.0	.6
	05	53.3	.4
	06	53.8	.3
	07	54.3	.1
	07.8	55.8	.0
	08	99.9 55.9	38.9
	09	57.6	.8
3961	10.2	59.5	.6
	11	58.9	.5
	12	57.9	.3

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1930phae.proj..689A

	17.5			57.7	.2
	14.3			61.1	.0
	15.5		99.8	61.2	37.8
	16.2			61.3	.7
	17.2			63.1	.6
	18			63.1	.4
	19			64.9	.3
	19.5			65.0	.2
	20.4			66.8	.1
	21.3			67.7	.0
	21.6			67.7	.0
	22.5		99.7	68.6	36.9
	23			69.8	.8
photom. defect	23.5			70.7	.7
	25			73.0	.5
	25.5			73.9	.4
	26.3			76.2	.3
	27			76.4	.2
	27.5			77.2	.1
	28			78.6	.1
	28.5			79.3	.0
	29			80.5	35.9
	29.5			83.0	.8
	30		99.6	85.8	.8
3968	30.7			87.2	.7
	31.5			85.0	.6
	32.1			83.3	.5
	32.5			83.6	.4
	33			85.5	.3
	33.5			86.7	.2
	34			87.3	.2

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1930phae.proj..039A

	134.4		87.7 .1
3970	135.1		88.5 .1
	135.5		88.3 .0
	36.2		88.2 34.9
	37		85.8 .8
	37.5		84.7 .8
	38	99.5	83.6 .7
	38.5		82.8 .6
	39		82.2 .5
	39.5		81.3 .4
	40		80.2 .3
	41		77.7 .2
	42		75.3 .0
	43		75.0 37.9
	44		72.4 .8
	45		70.0 .7
	46		69.0 .5
	46.5		67.9 .4
	47		67.9 .3
	48		66.0 .2
	49	99.4	63.7 .0
	50		61.8 32.9
	50.8		61.7 .8
	51.8		59.9 .7
	52.2		59.7 .6
	53		57.0 .5
	54		56.9 .3
	54.5		56.7 .2
	55		55.6 .1
	56		53.8 .0
	56.6		53.7 31.9

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1930phae.proj..089A

	57.5		52.3	.8
	58		52.1	.8
	59		50.8	.7
	60		49.8	.5
	61		48.7	.4
	62		47.9	.2
	63		46.8	.1
	63.6		45.9	.0
34 79?	64.3		46.1	30.9
	65	99.3	44.3	.8
	66		42.6	.6
	67		42.0	.4
	67.8		42.1	.3
	68.8		40.4	.1
	69.5		40.7	.0
	70		40.3	.0
	71		39.9	29.9
	72		39.3	.8
	72.5		38.5	.7
	73		38.5	.6
	73.9		36.8	.4
	75	99.2	37.2	.3
	75.8		36.6	.2
	76.3		36.9	.1
	77.2		35.8	.0
	78		35.6	28.9
	79		34.7	.8
	80		33.9	.6
	80.8		333	.5
	81.4		336	.4
	82.3		33.1	.2

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1930phae.proj..089A

83		39.1	.1
84.6		31.9	.0
85.3		99.7 32.0	27.9
86.1		31.1	8
86.8		31.3	.6
88		30.6	.5
89.3		29.6	.3
90		29.8	.2

discontinuity on trace — -

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1930phae.proj..089A

μØ4540 W443 δ 0.008
Cont. background v.b.

4045	1.4			
4063	48.8	1		
	65	101.6	11.3	10.9
			11.1	
			11.1	
			11.4	
	68.7		11.3	
	69		11.6	
4071	70		13.0	.8
	71		11.7	
	72		11.0	
	73		10.9	
	74		10.1	.7
	75		10.2	
	76		10.1	
	77		10.9	
	78		11.0	.6
	79		11.4	
	80	101.5	11.4	
	81		11.3	
	82		11.7	
	83		11.6	.5
	83.5		11.2	
	84.5		11.7	
	85		12.3	
4077	85.8		13.1	
	86.5		12.3	
	87.3		11.4	
	88		11.5	.4
	89		11.7	
	90		11.6	

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1930phae.proj..689A

91		91.1	.8
		91.5	
		91.8	.3
		91.7	
95		101.4 92.0	
		92.1	
		92.1	.2
		92.4	
		92.4	
100		92.7	
01		12.5	.1
02		12.8	
03		12.9	
04		13.2	
05		13.3	.0
05.5		13.6	
06		13.3	
07		14.0	
08		14.1	
09		14.2	
10		14.6	9.9
10.7		14.1	
11.5		14.9	
12.5		101.3 14.9	
13.5		15.0	
14		15.4	—.8
14.8		16.0	
15.3		15.9	
16		16.2	
16.5		16.3	
17.2		17.0	

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18.4		17.0
19.5		17.7 .7
20		18.1
21		18.4
22		18.8
23		19.8 .6
23.5		19.8
24.5		20.9
25		20.9
26		21.7
27		22.0 .5
28		23.7
28.3		24.0
29.2		24.6
30		26.1
30.5		26.2
32		28.4 .4
32.5		28.9
34		31.2
35		32.2
36		34.6 .3
36.5		35.2
37		36.1
38		39.0
38.5		40.5
39		41.0
40	101.2	43.1 .
40.5		43.9
41		45.4 .2
41.7		48.3
42.5		51.7

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	43	53.4	
	43.5	55.2	
	44	57.5	
	44.5	59.8	
	45	63.0	
	45.5	68.0	
4101	46.2	71.7	.1
	47	67.0	
	47.5	63.9	
	48	60.5	
	48.5	57.0	
	49	55.1	
	49.5	53.6	
	50	52.1	.0
	51	48.5	
	52	44.7	
	53	42.2	
	5~~3.5~~	40.7	
	54	38.7	8.9
	55	37.0	
	56	35.4	
	57.3	32.0	
	58	31.8	.8
	59	30.3	
	60	10101 29.0	
	60.5	28.4	
	61	27.0	
	62	25.6	..
	62.7	24.4	
	63.2	24.7	.7
	64	23.0	

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64.5	22.5	
65.2	22.4	
66	21.9	
66.5	21.7	
67	21.0	
68	19.6	.6
68.5	19.7	
69	19.4	
70	18.1	
71	17.3	
71.8	17.5	.5
73	16.1	
74	15.7	
75	15.2	
76.5	14.3	
77	14.5	
78	14.0	.4
79	13.4	
80	13.0	
81	12.8	
81.8	12.9	.3
83	12.2	
84	11.9	
85	11.5	
86	11.2	
87	11.0	.2
88	11.3	
88.7	11.3	
89	11.1	
90	10.7	
91	10.7	.1

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MΦ 45·41 W443 δ 0.005 Background uncertain

	32.1	100.0	48.2	48.0
	33		51.4	47.9
4045	33.8		53.6	.8
	34.5		51.4	.7
	35		49.0	.6
	35.8		47.9	.6
	37		45.9	45.3
	78		46.0	.3
	79		46.2	.2
	80		46.9	.2
	80.5		48.6	.1
4063	81.2		50.6	.1
	82		48.0	.0
	83.2		45.5	.0
	84		46.1	44.9
	85		46.0	.9
	86		45.3	.9
	87		45.2	.8
	88		44.4	.8
	89		45.5	.7
	90.3		46.7	.7
	91		45.9	.6
	92		45.4	.6
	93		44.4	.5
	94		44.7	.5
	95		45.3	.4
	96		45.3	.4
	97		44.9	.3
	98		45.0	.2
	99		45.6	.2
	100		46.3	.1

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	101.1	46.0	.1
	102	48.4	.0
4071	102.4	48.9	.0
	103	47.9	.0
	04	45.0	43.9
	05	45.0	.9
	06	46.4	.8
	07	46.1	.8
	08	45.1	.7
	09	45.4	.7
	10	45.4	.6
	11	45.5	.6
	12	45.3	.5
	13	45.7	.5
	14	45.6	.4
	15.4	45.0	.3
	16	45.8	.3
	16.5	46.8	.2
	17	47.0	.2
4077	18.1	48.8	.1
	19	47.0	.1
	19.5	45.9	.1
	20.8	45.9	.0
	21.6	47.1	.0
	22.5	45.7	42.9
defect	23.5	46.6	.9
	29	47.1	.6
	30	47.9	.5
	31	47.9	.5
	31.5	48.6	.4
	32.5	48.1	.4

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133.3	48.3	.3
34	49.1	.3
35	48.9	.2
36	48.9	.2
37	49.2	.1
38	49.3	.1
39	49.0	.0
39.8	50.0	.0
40.5	102.1 49.9	.0
41.5	51.4	41.9
42	51	.9
42.8	51.9	.9
43.5	50.8	.8
44.5	52.~~8~~ 2	.8
46	53.3	.7
47	53.7	.6
48.1	52.9	.6
49.5	55.2	.5
50	55.0	.5
51	56.2	.4
51.5	56.2	.4
52.8	58.7	.3
53.5	58.7	.3
54	59.1	.2
55	59.7	.2
55.7	59.3	.1
56.5	60.5	.1
57.1	61.6	.1
57.7	61.3	.0
58.7	63.0	.0
59.3	63.0	.0

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	60.5	64.8	40.9
	61.3	64.8	.9
	62	66.1	.8
	63.2	68.3	.8
	63.9	68.1	.7
	64.5	69.3	.7
	65.5	70.2	.6
	66.7	72.5	.5
	67.3	72.3	.5
	68	73.4	.4
	69	75.2	.4
	69.7	76.2	.3
	70.5	76.6	.3
	71	77.1	.2
	71.8	78.8	.2
	72.1	78.9	.1
	73	81.4	.1
	73.9	83.3	.0
	74.6	83.1	.0
	75.5	85.0	.0
	76	86.5	.0
	76.5	87.0	39.9
	77	88.2	.9
	77.5	90.0	.9
	78	91.1	.9
4101	78.8	92.2	.8
	79.5	87.7	.8
	80	88.0	.8
	80.5	87.0	.7
	81	85.7	.7
	81.5	83.4	.7

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82		83.1 .7
83.1		80.9 .6
84		81.0 .6
85.1	101.2	79.4 .5
85.8		79.6 .5
87		77.4 .4
88		75.6 .4
89		73.7 .3
90		72.3 .3
90.7		72.0 .2
91.5		70.0 .2
92.5		67.6 .1
93.9		67.7 .1
95.2		63.9 .0
95.8		63.8 .0
96.8		62.1 38.9
97.3		62.2 .9
98.7		61.4 .8
99.2		61.5 .8
100.3		58.3 .7
01		58.3 .7
02		58.3 .6
03		56.8 .6
03.5		56.4 .5
04.3		54.4 .5
05.7		54.7 .4
06.5		53.7 .4
07.5		52.9 .3
08		52.1 .2
09		51.6 .2
10.1		51.1 .1

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1930phae.proj..689A

	211.1	49.2 .1
	212.5	48.8 .0
	13.4	48.9 37.9
	14.2	47.5 .9
	15.6	47.7 .8
	17	46.4 .8
	18	45.4 .7
	18.5	45.4 .7
	19.2	44.9 .7
4118.3	20.2	46.3 .6
	21.3	44.6 .6
	22	44.6 .5
	22.7	43.9 .5
	23.5	44.1 .4
	24.5	44.3 .4
	25.9	43.1 .3
	26.5	43.5 .2
	28.1	41.9 .2
	29	42.2 .1
	30	101.3 41.3 .1
	31	42.2 .0
	32	41.8 .0
	33	40.7 36.9
	34	40.7 .9
	35	40.9 .8
	36	40.7 .8
	37	40.0 .7
	38	40.0 .7
	39	40.9 .6
	40	39.4 .5
	41	40.1 .5
	42	40.6 .4

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1930phae.proj.0890A

NØ4536 W443 γ 0.009

4290	49.1	
4294	54.8	
	63	100.0 10.0 10.0
	64	10.3
	65	10.9
4300	66.3	11.8
	67	11.4
	68	10.4
	69	10.3
	70	10.5
4302	70.8	10.7
	71.3	10.8
4303	72.1	11.0 9.9
	73	10.7
	74	9.9
	75	9.8
		10.0
		10.0
		10.1
		10.2
	80	10.1 9.8
	81	11.2
4307	81.7	11.9
	82.5	11.1
	83.7	10.1
	85	10.2
	86	10.4
	87	10.0
	88	10.0
	89	10.0
	90	10.2 8.7

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1930phae.proj..089A

	91	10.7	
4312	92	11.0	
	93.3	10.8	
4313	94.3	11.4	
	95	11.4	
4315	96	11.3	9.6
		10.8	
		10.4	
		10.6	
	100	10.8	
	01	10.9	
	02	10.9	
	03	11.2	9.5
	04	11.2	
	05.5	11.2	
	07	12.1	
4321	07.8	12.3	
	08.8	12.0	
	10	12.0	9.4
	11	12.1	
	12	12.6	
	13	12.8	
	14	13.1	
	15	99.9 13.8	
4325	16.3	14.6	
	17	14.3	9.3
	18	14.4	
	19	14.6	
	20	15.1	
	21	15.7	
	22	16.3	

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1930phae.proj..689A

	23		17.0 9.2
	24		17.2
	25	99.8	17.8
	26		18.7
	26.6		19.4
	27.5		19.9
	28.5		20.6
	29.5		21.8
	30		22.1
	30.5		22.8 9.1
	31		23.3
	32		24.9
	33		26.4
	34		28.1
	35	94.7	30.2
	36		32.5
	37		34.9
	38		37.5
	38.4		39.4 9.0
4337?	39.1		42.0
	40	99.7	43.5
	40.5		46.2
	41		48.0
	41.5		50.5
	42		54.5
	42.5		58.8
	43		62.5
	43.5		66
4340	43.9		66.8
	44.5		64.9
	45		61.0

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1930phae.proj..089A

	45.5		57.5	
	46		54.5	8.9
	47		47.8	
	48		43.8	
	49		40.6	
	50		47.7	
	51		35.2	
	52		33.2	
	53		31.0	
	54		28.9	8.9
	54.5		28.1	8.8
	55	99.6	27.3	
	56		25.4	
	57		23.9	
	58		22.6	
	59		21.3	
	60		20.3	
	61		19.2	
	62		18.0	8.7
	63		17.7	
	64		17.7	
4351	64.9		18.0	
	66		16.6	
	67		15.3	
	68		14.5	
	69		13.9	
	70	99.5	13.9	8.6
	70.5		13.6	
	71.3		13.4	
	72		13.0	
	73		12.4	

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	74	12.2	
	75	12.0	
	76	11.9	
	77	11.6	
	78	11.1	
	79	11.0	8.5
	80	99.4 10.8	
	81	10.2	
	82	10.1	
	83	10.0	
	84	9.9	
	85	9.9	
	86	9.7	
	87	9.6	
	88	9.5	8.4
	89	9.4	
	90	9.3	
	91	9.2	
	92	9.2	
	93	9.3	
	94	9.3	
F367	95	99.3 9.7	
	96	9.4	
	97	9.1	8.3
	98	8.9	
	99	8.9	
	200	8.7	
	201	8.8	
	01.4	8.9	
	02	8.8	
	03	8.7	

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	04			8.6
	05		9p.2	8.7
	06			8.9
	06.7			9.0 8.2
	08			8.7
	09			8.6
	10			8.4
	11			8.3
	12			8.2
	13			8.1
	14			8.4
	15			8.3 8.1
	16			8.2
	17			8.1
	18			8.0
	19			8.0
	20			8.0
4383	23.4			
4395	44.9			
4404	62			

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1930phae.proj..089A

μ Ø 4537 W443 δ 0.005 Total deflection queer

4290	-5.3			
4294	2.3			
	10	97.4	46.0	46.3
	11		46.0	
	12		46.9	
	13		47.4	
4300	13.8		49.7	
	14.5		48.9	.2
	15		47.5	
	16		45.9	
	17		45.7	
~~4302~~	17.5		46.3	
	18		46.4	.1
	18.6		46.4	
4305	19.8		47.1	
	20.5		46.7	
	21		46.2	
	22	97.5	45.2	.0
	23		45.8	
	24		45.9	
	25		45.3	
	26		45.0	45.9
	27		45.9	
	28		46.7	
	28.5		48.0	
4307	29.3		49.7	
	30	97.6	48.5	.8
	31		46.0	
	~~32.3~~		46.0	
	33		45.3	
	34		45.7	.7

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	35	97.7	46.3	
	36		46.0	
	37		45.9	.6
	38		46.6	.6
4312	39.1		47.7	
	40.2		47.0	.5
	41		47.7	
	42		48.6	.4
4315	42.9		49.4	
	44		47.9	
	45		46.8	.3
	46		47.1	
	46.9		47.5	
	48		47.2	.2
	49		47.2	
	50	97.8	47.5	.1
	51		48.2	
	51.8		48.8	
	53		49.0	.0
	54		49.7	
4321	54.6		50.0	
	56		49.7	43.9
	57.3		49.4	
	58.5		50.0	
	59		50.3	.8
	60		50.8	
	61		51.4	
	62		52.5	.7
	63		54.1	
	63.8		55.5	
	64.5	97.9	55.0	

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66.3		55.0	.6
67.5		55.7	
69		56.5	
70		57.1	
71		58.3	.5
72		60.0	
73 3		62.4	
74.3		62.8	
75.6	98,0	64.0	.4
76.3		64.1	
78		67.7	
78.5		68.4	
79		69.1	.3
79.7		70.1	
81		70.7	
81.5		71.0	
82		71.4	
83		73.8	.2
83.8		75.4	
84.5		76.7	
85		77.4	
86		79.7	
87		81.7	.1
87.5		82.5	
88		82.9	
88.5		83.7	
89		84.7	
89.5		86.1	
90	98.1	88	.0
90.5		90.1	
91		91.7	

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4340	91.4		92.2	
	92		91.8	
	92.5		90.3	
	93		88.9	42.9
	93.5		87.1	
	94		85.4	
	94.5		84.0	
	95		83.1	
	96		81.0	
	97		79.2	.8
	98		77.2	
	99		75.7	
	100		73.6	.7
	01		71.8	
	02		70.2	
	03		68.1	.6
	03.7		67.9	.
	04.8		66.3	
	06		65.3	.5
	06.7		64.6	
	07.3		64.1	
	08.1		63.2	
	09		61.8	.4
	10		60.9	
	11		60.2	
4351	12.3	98.2	61.3	.3
	13		60.4	
	14		57.5	
	15		55.7	.2
	16		54.9	
	17.1		53.8	

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118	53.5	
19.5	51.3	.1
21	51.2	
22	50.8	.0
23	98.3 50.7	.0
24	49.9	
25	49.0	
25	48.7	
26	47.9	47.9
27	47.7	
28	46.8	
28.8	46.5	.8
30	46.5	
31	46.4	
32	98.4 46.1	
33	45.9	.7
34	45.4	
35	44.8	
36	44.7	.6
37	44.8	
38	44.8	
39	44.2	.5
40	44.5	
41	44.1	.4
42	43.9	
43	43.7	
43.5	43.8	
44	43.3	.3
45	98.5 42.9	
46.5	42.9	
47.3	42.2	.2

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1930phae.proj..689A

	48		42.7	
	49		43.2	
	50	98.6	42.9	.1
	51.5		42.9	
	52		42.7	
	53		42.5	.0
	54		42.6	
	55		42.4	
	56		42.3	
	57		42.6	40.9
	57.9		42.9	
	59		42.3	
	60	98.7	42.0	.8
	61		41.9	
	62		41.9	
	63		41.9	
	64.2		42.2	.7
	65		41.8	
	66		41.2	
	67		40.8	.6
	68.5		40.8	
	69.5		41.3	
4383	70.8		43.9	.5
	71.5		43.6	
	72.7		42.2	
	73.5		42.6	.4
4385	74.2		43.0	
	75.5	98.8	42.3	
	76.7		41.2	.3
4395	92.4			
4404	209.4			

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1930phae.proj..089A

		0.002			0.002			0.005			0.005		
x	u_0	u/u_0	H	$\log T$	u_0	u/u_0	H	$\log T$	u_0	u/u_0	H	$\log T$	u_0	u/u_0	H	$\log T$
5			–		100.7		16.7		100.4		33.0		99.8		45.6	
10			–				26.1				41.7		99.9		55.0	
	101.3		6.6				31.3				46.4				60.3	
20			10.3				35.6		100.5		51.2		100.0		64.3	
			12.9				39.0				54.9				67.7	
30			15.3				42.0				58.3		100.1		70.9	
			17.8		100.8		44.9				60.8		100.2		73.4	
40			20.4				47.6				63.7		100.3		76.0	
			22.5				50.1		100.6		65.3		100.4		78.3	
50			24.7				53.3				69.0				80.8	
			26.7				56.2				71.7		100.5		83.7	
60	101.4		29.3				58.8				74.5		100.6		86.2	
			31.7				62.1				77.5		100.7		89.9	
70			33.7		100.9		65.6				79.9				93.3	
			36.7				68.8		100.7		83.1				–	
80			40.3				72.1				87.8				–	
			43.9				76.5		100.8		(94.2)				–	
90			48.1				80.5				–				–	
	101.5		56.0				–				–				–	
100	101.6		(80)				–				–				–	
H_0			101.6				102.1				100.3				(100.5)	

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