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Physics B

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Indef

Page	No.	
3	A18638	measured ~~once~~ twice but remeasures needed
25	A18834	measured once
41	A17988	book made up
95	A17867	measured twice CDR Fair

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2

A 18638

	Counted
(14.6)	g. m.
14.8	
15.1	
(15.2)	E.J.
(15.2)	g. m.
15.4	
(15.7)	E.J.
16.0	
16.25	
16.3	
(16.4)	E.J.
16.6	
16.7	
(17.0)	E.J.
17.1	
17.4	
(17.6)	E.J
17.7	
17.9	
(18.2)	E.J
18.3	
18.5	
(18.6)	V McK. W.H.
~~15.1~~	
~~17.1~~	

15.1 (bright stars of E.J.) was corrected by +0.m1 by F.W.W.
This agreed with g. m's. 15.2

17.1 was corrected to 17.0 by F.W.W.

Interpolations by F.W.W.

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A 18638

100 -25.0°

	C.D.B.	F.W.W		
Square 1				
1	16.4	J15.0		F.S.B.?
2				
	17.9	18.0	18.0	
3	16.5	15.8	16.1	
4	16.7	15.9		
5	16.6	16.0	16.3	
6	17.8	17.5	17.6	
7	17.9	17.6	17.7	
8	16.5	16.1	16.3	
9	17.3	17.0	17.2	
10	17.5	17.0	17.3	
11	17.3	16.9	17.1	
12	17.7	17.8	17.8	
13	17.9	17.8	17.9	
14	18.0	17.8	17.9	
15	17.9	17.6	17.8	
16	17.8	17.6	17.7	
17	17.5	17.0	17.3	
18	17.4	16.9	17.2	
19	15.6	15.2	15.4	
20	16.9	17.0	16.9	
21	17.4	17.5	17.4	
22	17.9	18.0	17.9	
23	16.8	16.9	16.8	
24	15.0	15.0	15.0	
25	17.9	17.6	17.7	
26	17.8	17.6	17.7	
27	17.7	18.0	17.8	
N288		cluster		
Hel.258	15.4	J15.0		
Hel.259	J15.0	J15.0	J15.0	
715				missing
716	17.8	17.9	17.9	
717	18.2	18.2	18.2	} Pair
718	18.0	18.1	18.0	
719	17.8	17.1	17.5	
720	17.7	17.5	17.6	
721	17.6	17.5	17.6	
Square 2				
~~28~~		~~16.8?~~		~~film defected~~
29	17.5	17.0		
30	18.1	17.8		
31	16.2	15.8	16.0	
32	17.9	17.8		neb?
33	17.3	16.6		
34	17.4	16.7		

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35	16.9	16.3		
36	16.6	16.0		
37	17.8	16.6		
38	16.5	16.4		
39	16.4	16.3		} 39 pair 722
40	18.0	18.3		
41	16.6	16.6	16.6	
42	18.3	18.3	18.3	
43	18.0	17.8	17.9	
44	17.8	17.0		F.S.B.?
45	17.6	16.6		
46	17.7	17.4		
47	17.8	17.7		
48	17.7	17.2		
49	17.7	17.5	17.6	
50	17.9	17.6		
51	17.8	17.6	17.7	
52	17.7	17.8		
53	15.8	15.5		
54	17.8	17.2		
55	17.9	17.6		
56	17.6	17.2	17.4	
57	17.8	17.6	17.7	} Pair
58	18.2	18.3		
59	17.4	16.6		

722	18.0	17.8	17.9	pair 39
723	17.8	17.8	17.8	
724	18.1	17.6		
	Square 3			
60	17.8	17.6	17.7	
61	17.0	16.4		Spiral on Edge
62				
63	16.5	16.4		
64	17.9	17.8		
65	17.4	16.6		
66	17.8	17.3		
67	16.1	15.7	15.9	
68	17.8	17.6	17.7	
69	17.2	16.6		
70				
71	16.5	16.4		
72	18.0	18.1		
725	17.9	17.2		
726	18.0	17.5		
727	17.4	17.4	17.4	
728	17.5	16.8		
	Square 4			
73	17.7	17.4		} Pair
74	17.8	17.6	17.7	
75	16.2	15.9		

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76	16.1	15.9	16.0	
77	17.2	17.0	17.1	
78	17.0	16.6	16.8	
79	16.1	16.0		
80	18.1	17.5		
81	18.2	17.5		
82	17.1	16.6		
83	18.3	17.8		
84	17.8	17.0		
85	18.3	17.7		
729	17.3	17.1	17.2	
730	17.8	17.1		
731	18.0	17.5		
732	15.8	15.8	15.8	
733	17.7	17.0		
734	18.0	17.5		
735	17.7	17.3	17.5	neb?
736				
737	17.6	17.3		

Square 5

86	17.8	17.5		
87				
88	16.2	15.8	16.0	
89	17.1	17.3	17.2	F.S.B?
90	16.9	16.1		
738	17.8	17.6	17.7	
739	16.8	16.4	16.6	
740	16.5	16.1	16.3	neb?
741	17.1	16.6		

Square 6

91	16.1	15.7	15.9	
92	17.9	17.8		
93	17.2	16.7		F.W.W neb?
94	18.4	17.8		
95	18.3	17.8		
96	15.9	15.8		
97	15.1	15.0		Spiral on edge
98	17.8	17.6	17.7	
99	16.5	16.0		Spiral on edge
100	14.9 15.0	15.0		
101	16.6	16.4	16.5	
102	17.8	17.8	17.8	
103	17.3	16.5		
742	17.4	17.2	17.3	
743	18.2	17.8	18.0	
744	18.1	17.7	17.9	
745	17.9	18.1	18.0	neb?
746	17.8	17.5		neb?
747	17.7	17.2		

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Square 7

104	17.3	17.4		
105	17.7	17.4		
106	15.5	15.1	15.3	
107		17.8		
108			double *	
109	17.1	16.7	16.9	Spiral on Edge
110	15.2	15.2	15.2	Spiral
111	17.9	17.8		
112	18.2	18.0	18.1	Fuzzy neb?
113	17.2	17.4	17.3	Spiral on Edge
114	17.7	17.2		
115	16.2	16.5		
116	]15.0	]15.0	]15.0	
117	17.1	16.4		
118	16.7	16.5	16.6	
119	16.2	16.0	16.1	Spiral on Edge
120	16.7	16.6		
121	18.3	18.0		
122	18.2	18.0	18.1	
123	18.2	17.7		
748	18.0	17.8	17.9	
749	18.4	18.2	18.3	
750	18.3	18.3	18.3	
751	18.3	18.0		
752	18.2	17.8	18.0	
753	18.1	17.9	18.0	
754	18.4	18.1		
755	18.2	17.8	18.0	
756	18.3	18.0		
757	18.0	17.1		F.S.B.
758	17.9	17.8		
759	17.9	17.8		
760	17.8	17.5		
761	18.2	18.3		
762	18.0	18.0	18.0	
763	18.3	18.3	18.3	
764	17.9	17.9	17.9	
765	18.3	18.3	18.3	
766	18.3	18.0		
767	17.5	17.4		

Square 8

124	17.6	17.3		
125	17.3	17.5	17.4	
126	18.0	17.8	17.9	neb?
127	16.9	16.3		
128	17.9	17.5	17.7	
129	17.0	16.7		
~~130~~		~~18.5~~		

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132	17.3	16.4		
133	17.9	17.0		
134	17.8	17.7		
135				
136	18.2	18.4	18.3	
137	18.1	18.5	18.3	
138	17.7	17.5	17.6	
139	17.6	17.5		
140	16.5	16.4		
141	18.3	17.1		neb?
142	17.2	16.4		
143	18.4	18.5		obj. att. on N.P.
144	]15.0	(14.9)		
145	18.1	17.4		
146	17.9	17.0		
147	18.0	17.5		
148	16.5	(16.1)	16.3	
149	16.8	16.3	16.2	
150	18.4	18.2	18.3	
151	17.2	16.8	17.0	
152	17.8	17.3		
153	18.2	17.4		
154	15.4	15.6	15.5	
155	15.6	16.1		
768			double *	

769	18.2	18.1		
770	18.5	18.6		
771	18.1	17.3		
772	18.1	18.4		
773	18.3	18.5	18.4	
774	17.9	16.8		
775	18.4	18.2	18.3	neb?
776	17.9	18.1	18.0	
777			double *	

Square 9

156	16.6	16.4	16.5	
157	16.8	16.3		
158	18.2	17.9		
159	15.6	15.1		
160	16.5	16.3	16.4	
161	17.3	16.7		
162	17.8	17.6	17.7	
163	18.4	18.3		neb?
164	17.6	16.5		
165	18.3	18.0		
166	18.0	17.0		
167	17.9	17.5	17.7	
168	17.8	17.0		
169	18.3	18.0		
170	17.6	17.7		

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171	17.9	17.7	17.8		188	16.8	15.8		20
172	17.4	17.2	17.3		189	17.3	17.0		20
178	18.1	18.3	18.2	F.w.w. neb?	190	18.1	18.1	18.1	20
179	17.7	17.5	17.6		191	17.2	16.5		21
180					192	18.0	17.9		21
181	18.2	18.3			193	17.3	16.7		21
182	18.3	18.3	18.3		194	17.6	17.4	17.5	21
183	18.2	18.3			195	17.1	16.6		21
184	18.1	17.9	18.0		196	17.4	17.2	17.3	79
Square 10					197	J15.0	J15.0	J15.0	79
173	17.6	18.5		F.w.w. neb?	198	16.0	15.7		79
174			n.g.		785	18.0	17.9		79
175	17.8	17.7			786	17.9	17.5	17.7	79
					787	17.3	17.2		
176	18.2	17.8	18.0	Pair	788	16.9	16.5	16.7	79
177	17.7	17.5	17.6		789	17.9	17.3		79
178	17.6	16.7			790	17.8	17.3		79
179	17.7	16.9			Square 11				79
180	17.3	16.6			199	17.6	17.6	17.6	80
181	18.0	17.5			200	17.1	16.2		
182	17.8	17.4	17.6		201	17.7	17.6		2
183	16.3	15.3	15.3		202	16.5	16.0		2
184			n.g.		203	17.3	16.5		2
185	18.1	18.4			204	17.4	16.6		2
186	17.1	16.7	16.9		205	18.3	18.4		2
187		~~17.3~~	n.g.		206	16.8	15.8		2

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207	17.3	16.8		* ~ P	221	17.3	16.9	17.1	} Pair
208	17.5	17.3	17.4		222	17.0	16.5		
209	16.9	16.4		* S F	223	17.8	17.1		
210	17.4	17.2	17.3		224	17.8	17.8	17.8	
211	17.9	17.7	17.8		225	18.2	18.0	18.1	
212	17.7	17.3	17.5		226	17.5	17.6		F.B.
213	18.1	17.5			227	18.3	18.3	18.3	
214	17.1	16.9	17.0		228	16.8	16.7		
791	18.1	17.9	18.0		229	18.0	17.9		
792	17.8	17.3			230	17.8	17.5		
~~793~~					231	17.8	17.9		
794	17.9	18.0		neb?	232	17.1	17.1	17.1	
795	18.0	18.0	18.0		801	18.5	17.4		
796	17.6	17.5			802	18.4	18.1		
797	16.6	16.4	16.5		803	17.7	17.4		
798	18.4	18.5		neb?	804	18.3	18.0		
799	18.2	18.0	18.1		805	18.4	18.5		
800	18.1	17.9	18.0		806	18.2	17.9		
Square 12					807	18.4	18.1		
215	17.7	17.5	17.6		808	18.2	18.0	18.1	
216	18.2	18.0	18.1		809	18.2	18.2	18.2	neb?
217	16.6	16.7			810	18.2	18.0	18.1	
218	18.1	18.4			811	18.4	18.6	18.5	neb?
219	18.2	18.3			812	18.3	18.1	18.2	
220	18.0	17.6	17.8		813	18.3	18.4		

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Square 13

233	18.3	18.1	18.2		
234	18.0	17.4			
235	18.8	18.3	18.2		
236	18.8	17.4	17.6		
237	17.8	(17.5)			
238	18.2	17.9			
239	18.0	18.0	18.0		
240	17.2	(16.9)		= 817?	
241	18.2	17.9			
242	17.6	17.0		} close pair	
242a	18.3	17.7			
243	17.4	17.0	17.2		
244	17.3	(16.7)			
245	18.4	18.2	18.3		
246	17.9	(17.6)			
247	18.1	(18.0)			
247a	17.6	17.1			
248	18.3	17.9	18.1		
249	15.1	(15.0)			
250	17.2	17.2	17.2		
251	16.8	16.9			
252	17.8	17.6	17.7		
253	16.5	17.0		L	
254	18.4	17.9			
814	18.0	17.8	17.9		
815	17.9	(17.8)			
816	17.9	18.0			
~~817~~		~~17.1~~		= 240?	
818	18.0	17.9			
819	18.3	(18.2)			
820	18.5	(18.1)	18.3		

Square 14

255	18.2	18.3			
256	15.6	15.6	15.6		
257	18.1	18.3	18.2		
258	17.9	18.1	18.0		
259	17.1	16.7	16.9		
260	17.9	18.3	18.1		
261	18.2	18.4	18.3		
262	18.3	18.4			
263	17.0	16.4			
264	17.2	17.3			
265	16.6	16.7			
266	18.1	18.0			
267	16.5	16.6		Spiral on Edge	
268	17.7	17.5	17.6		
269	18.1	18.0			
270	17.8	17.8	17.8	x ~~att.~~ on s	
271	17.9	17.5	17.7		
272	17.9	17.9	17.9		
273	17.5	17.5	17.5		

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274	16.7	16.6			285	18.2	17.8	18.0	
275	17.1	16.4			286	18.3	18.3	18.3	neb?
276	17.5	17.4		} Pair	287	17.2	16.6		
277	18.0	17.8	17.9		288	18.1	17.8		
278	17.8	18.1			289	17.6	16.8		
279	16.7	16.6			290	16.7	16.4		
821	18.1	18.1	18.1	Fuw neb?	291	16.6	16.3		
822	17.8	17.4	17.6		292	16.8	17.0	16.9	
823	18.5	18.4			293	17.7	17.8		
824	18.2	18.0	18.1		294	17.9	17.8		
825	18.1	17.8			295	16.5	15.7		
826	17.8	17.7			~~296~~	~~18.9~~	~~18.5~~		
827	17.0	17.1			297	18.2	18.0	18.1	
828	17.6	17.5			298	18.3	18.3	18.3	
829	18.0	18.0	18.0		299	17.7	17.5	17.6	
830	17.6	17.8	17.7		300	16.1	16.1	16.1	
831	18.2	18.0	18.1		301	17.8	17.9		
832	18.1	17.9	18.0		302	16.3	16.0		
833	18.3	17.9	18.1		303	17.5	16.9		
Square 15					~~304~~	, .	~~17.8~~		
280	16.7	16.4			834	17.9	18.1	18.0	
281	17.1	17.4			835	17.3	17.4		
282	18.2	18.0	18.1		836	17.6	17.4	17.5	
~~283~~		.	double *		837	17.4	17.5		
284	17.8	17.4	17.6		838	18.2	18.0	18.1	

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839	18.0	17.9			~~321~~			
840	18.1	18.3	18.2		323	17.8	17.8	17.8
841	17.5	17.5	17.5		324	17.7	17.4	
842	17.4	17.2	17.3		325	18.3	18.3	18.3
843	17.7	18.0			326	17.8	17.6	17.7
844	18.0	18.1			327	18.0	18.1	
Square 16					328	18.4	18.5	
305	15.9	15.0			329	16.3	16.1	16.2
306	18.1	18.0			330	16.5	16.3	16.4
307	17.6	17.3			331	15.2	15.3	
308	18.2	18.0	18.1		332	16.2	16.3	
309	17.9	17.2			333	16.5	16.4	Katte NF
310	15.1	15.0			334	16.8	16.3	
311	18.0	17.9			335	17.7	17.9	17.8
312	18.2	17.9			336	17.5	17.2	
313	17.0	16.9			337	17.1	17.0	
314	17.2	17.2	17.2	Fww neb?	338	16.9	17.2	
315	16.5	16.3	16.4		339	15.3	15.2	
316	16.8	16.6	16.7		Ic 1600	]15.0	]15.0	]15.0
317	18.2	18.0	18.1		Ic 1601	]15.0	]15.0	]15.0
318	18.5	18.5	18.5		Ic. 1599	]15.0	]15.0	]15.0
319	17.5	17.4			845	18.1	18.5	18.3
320	15.2	(15.1)			846	16.1	16.3	16.2
321	17.9	17.8			847	18.2	18.0	18.1
322	18.1	18.3	18.2		848	18.0	17.8	17.9

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849	18.1	17.9	18.0	853		17.7		neb?

Square 17

340	17.8	17.7						
341	18.3	18.1						
342	16.9	16.7						
343	16.6	16.3						
344	16.5	16.3						
345	17.4	15.9						
346	16.5	16.7						
347	18.1	17.8						
348	17.9	17.6						
349	18.1	18.3						
350	17.1	16.5						
351	17.4	17.2						FWW neb?
352	17.0	16.6						
353	16.4	16.5						
354	16.8	16.6						FWW neb?
355	17.3	16.9						
356	15.9	16.1						
357	17.5	17.6						
358	16.8	(16.4)	16.6	872	17.9	17.7	17.8	FWW neb?
359	16.6	16.4	16.5	873	18.4	18.5		neb?
360	18.4	18.5		874	18.4	18.0	18.2	
850	18.0	17.9		875	18.4	18.1		
851	17.8	17.9		876	16.9	17.0		
862	17.4	17.3		877	18.2	18.0	18.1	

Sq. 13 - 234
~~233~~
~~237~~
A186 38
242
243
244
247a
253
254
14 263
275
15 287
289
295
303
12 222
223
11 200
203
203
204
206
207
209
213
792
18 363
379
391
880
19 408
409
412
416
417
419
436
896
20 447
451
454
452
460
17 346 ~~analysis~~
350
357
859
~~811~~
45

Look 388 sq 18 - 1863 8
410 19 -

FWW
12 - 801 wrong of.

16 - 305
309
334
23 - 507
511
519
532
534
536
538
539
542
550
924
24 - 560
564
566
567
571
576
578
579
580
926
25 - 590
21 - 467
476
482
914
22 487
489
490
493
494
495
497
500
503
919
921
922
923
42

8 - 127
132
133
141 obj.
142 "
145
146
147
162
153
155
771
774 error
9 157
159
161
164
166
168
10 173
178
179
180
181
188
192
193
195
789
790
7 114
117
123
757
6 93
94
95
99
103
747
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45
43
3 59
15

3 - 61
65
66
69
725
726
728
4 80
81
82
83
84
85
730
731
733
734
5 90
2 29
33
34
35
36
37
44
45
48
54
59
724
1 1
4
neb 258

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849	18.1	17.9	18.0	853		17.7		neb?

Square 17

340	17.8	17.7						
341	18.3	18.1						
342	16.9	16.7						
343	16.6	16.3						
344	16.5	16.3						
345	17.4	15.9						
346	16.5	16.7						
347	18.1	17.1						
348	17.9	17.6						
349	18.1	18.3						
350	17.1	16.9						
351	17.4	17.2						Fww neb?
352	17.0	16.6						
353	16.4	16.5						
354	16.8	16.6						Fww neb?
355	17.3	16.9						
356	15.9	16.1						
357	17.5	17.0						
358	16.8	(16.4)	16.6	872	17.9	17.7	17.8	Fww neb?
359	16.6	16.4	16.5	873	18.4	18.5		neb?
360	18.4	18.5		874	18.4	18.0	18.2	
850	18.0	17.9		875	18.4	18.1		
851	17.8	17.9		876	16.9	17.0		
862	17.4	17.3		877	18.2	18.0	18.1	

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849	18.1	17.9	18.0	

Square 17

340	17.8	17.7		
341	18.3	18.1	18.2	
342	16.9	16.7	16.8	
343	16.6	16.3		
344	16.5	16.3	16.4	
345	17.4	15.9		* att S.F.
346	16.5	16.7	16.6	
347	18.1	17.8		
348	17.9	17.6		
349	18.1	18.5	18.3	neb?
350	17.1	16.5		
351	17.4	17.2	17.3	* att NF
352	17.0	16.6	16.8	
353	16.4	16.5		
354	16.8	16.6	16.7	
355	17.3	16.9	17.1	
356	15.9	16.0		
357	17.5	17.0		
358	16.8	(16.4)	16.6	
359	16.6	16.4	16.5	
360	18.4	18.5		
850	18.0	17.9		
851	17.8	17.9		
852	17.4	17.3		

853		17.7		neb?
854	18.4	18.3		
855	18.4	18.1		
856	18.3	18.1	18.2	
857	18.5	18.5	18.5	
858	17.6	17.3		
859	17.8	17.3		
860	17.7	17.5	17.6	
861	17.9	18.0		
862	18.1	18.3	18.2	
863	18.3	18.4		
864	16.9	16.6		
865	18.2	18.4	18.3	Fww neb?
866	18.0	17.9		
867	18.4	18.1		
868	18.3	18.4		Fww neb?
869	18.3	18.5	18.4	
870	17.3	17.2		
871	17.8	17.5		
872	17.9	17.7	17.8	Fww neb?
873	18.4	18.5		neb?
874	18.4	18.0	18.2	
875	18.4	18.1		
876	16.9	17.0		
877	18.2	18.0	18.1	

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Square 18

361	18.3	18.3	18.3		381a	17.8	17.7		
362	15.3	15.4			382	16.4	(16.3)		
363	18.1	17.5			383	18.2	18.1	1	neb?
364	18.4	18.4	18.4		384	18.1	18.2		
365	17.8	17.7			385	15.6	15.6	15.6	Spiral on Edge
366	18.3	18.4		* att. P	386	17.9	17.9	17.9	
367	18.3	18.0			387	17.7	17.7	17.7	
368	18.2	18.1		fww neb?	388	15.8	15.4	15.6 w superimp.	Spiral
369	18.1	18.2			389	17.6	(17.2)	17.4	
370	17.3	17.5	17.4		390	18.3	18.5	18.4	
371	18.3	18.2			391	18.1	17.6		
372	17.1	17.3	17.2		392	17.8	17.6	17.7	
373	16.6	16.7			393	18.5	18.5	18.5	neb?
374	17.2	(17.0)	17.1	L	394	17.6	17.7		
375	15.6	(15.5)			395	18.3	18.4		
375a	18.0	17.9			396	18.0	17.8	17.9	= 885?
376	18.1	18.1	18.1		397	18.2	18.3		
376a	18.3	18.3	18.3		398	17.7	17.7	17.7	
377	17.0	16.8	16.9		878	18.4	18.4	18.4	fww neb?
377a	18.1	18.0			879	17.8	17.7		
378	16.3	16.6			880	18.2	17.7		
379	16.0	15.5			881	17.8	17.8	17.8	
380	18.3	18.2			882				
381	17.9	17.5	17.7		883	18.4	18.4	18.4	
~~381a~~		~~17.7~~			884	18.3	18.4		

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~~385~~		~~17.7~~		
Square 19				
399	15.3	(15.2)		
~~400~~		~~17.5~~		
401	16.5	16.3	16.4	
402	16.7	16.4		
403	18.3	18.3	18.3	
404	17.2	16.9		
405	16.1	(15.8)		
406	16.8	16.7		
407	17.6	17.4	17.5	
408	18.0	17.5		
409	18.3	17.7		
410	16.4	16.2	16.3 No super novae	
411	18.2	18.0	18.1	
412	17.8	17.2	17.	
413	18.3	18.1	18.2	
414	15.4	15.4		Spiral on Edge
415	18.0	17.6	17.8	
416	17.5	17.0		
417	J15.0	15.0		Spiral
418	18.0	17.9		obj. attn ~
419	17.5	17.0		
420	17.3	17.3	17.3	
421	18.1	17.7	17.9	Bar. * P.
422	17.3	17.2		
423	16.8	16.5		
424	18.1	18.2		
425	J15.0	J15.0	J15.0	
426				
427	18.1	18.2		
428	17.6	17.5		
429	17.8	17.9		
430	18.4	18.1		
431	17.7	17.6		
432	17.1	16.9	17.0	* S.P.
433	15.2	15.5		
434	17.9	17.7	17.8	
435	18.1	18.3	18.2	
436	16.4	15.9		Spiral on Edge
437	18.3	18.3	18.3	
438	16.5	16.6		
439	18.0	18.0	18.0	
440	18.2	18.0	18.1	
441	17.3	17.1	17.2	
442	—	~~18.7~~		~~Two nebs!~~
443	18.2	18.1		
444	16.6	16.5		
886	17.2	17.3		

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887	17.8	17.8	17.8	Fww neb?
888	17.6	17 7		Fww neb?
889	18.3	18.2		
890	18.4	18.5		neb?
891	18.4	18.5		Fww neb?
892	16.8	16.5		
893	18.0	18.0	18.0	
894	17.9	17.5	17.7	
895	18.2	18.0	18.1	
896	18.0	17.5		
897	17.7	17.5	17.6	
898	17.9	17.7	17.8	
899	18.2	18.3		

Square 20

445	18.2	18.3		
446	17.2	17.3		
447	15.8	15.3		
448	15.9	15.6		
449	16.3	16.3	16.3	
450	16.7	16 6		
451	17.3	16.8		
452	16.0	15.5		
453	17.7	17.8		* att. P
454	17.3	16.6		
455	17.6	17.2	17.4	
456	18.0	17.8	17.9	
457	17.3	17.0		
458	18.1	18.3	18.2	
459	18.3	18.4		
460	18.0	17.3		
461	16.3	16.3	16.3	
462	17.5	17.6		
463	17.9	17.7	17.8	
464	18.3	18.6		
465	16.6	16.6	16.6	
900	17.1	16.8		
901	17.8	17.9		
902	16.6	16.7		
903	18.2	18,4	18.3	
904	18.1	18.3	18.2	
905	17.6	17.4	17.5	
906	18.2	17.9		Fww neb? neb?
907	18.0	17.6	17.8	
908	18.0	17.8	17.9	
909	17.6	17.3		
910	18.0	17.8	17.9	neb?
911	16.5	16.3	16.4	

Square 21

~~466~~				
467	16.0	15.0		
468	16.9	16.4		

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1936phae.proj-2372B

469	J15.0	J15.0	J15.0		487	17.8	17.3	
470	18.3	17.9	18.1		488	16.6	16.5	
471	17.8	17.4	17.6		489	17.2	16.7	
472	18.3	18.4			490	17.9	17.1	
473	17.0	16.9			491	15.9	16.0	
474	17.6	17.3		*SF	492	18.1	18.1	18.1
475	17.0	16.5			493	18.0	17.4	
476	17.4	16.6			494	16.0	15.2	
477	17.2	16.6	16.9		495	17.9	17.2	
478	18.2	18.0	18.1		496	17.2	16.9	
479	17.5	17.5	17.5		497	16.2	15.6	
480	17.4	17.5			498	17.1	16.9	17.0
481	16.9	16.4			499	17.7	17.3	17.5
482	16.4	15.5		} Pair	500	17.9	17.3	
483	16.9	16.7	16.8		501	16.9	16.5	16.7
484	16.5	16.3	16.4		502	16.6	16.4	16.5
485	17.5	17.2			503	17.0	16.5	
912	17.3	16.7	17.0		504	18.1	18.0	
913	17.9	17.9	17.9		505	16.0	15.7	
914	16.8	15.9			918	18.0	17.9	
915	17.1	17.0			919	17.6	17.0	
916	17.3	17.1	17.2		920	17.8	17.4	17.6
917	18.1	18.4			921	17.8	17.2	
Square 22					922	16.8	15.9	
486	16.5	16.4			923	17.6	16.7	

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Square 23

506	17.5	17.6	
507	17.0	17.6	
508	15.4	15.0	15.2
509	18.1	18.0	
510	16.4	16.5	
511	18.3	17.8	
512	18.4	18.3	
513	17.7	17.6	
514	16.5	16.9	16.7
515	17.3	17.5	17.4
516	15.1	15.0	
517	16.5	16.4	
518	17.5	17.1	17.3
519	17.9	17.4	
520	17.8	17.8.	17.8
521	17.9	17.5	17.7
522	18.0	18.0	18.0
523	17.9	17.7	17.8
524	17.7	17.4	
525	18.2	18.3	
526	17.5	17.4	
527	16.4	16.6	16.5
528	17.4	17.3	
529	17.3	17.2	

} Pair Spiral

530	15.2	15.1	
531	16.3	16.4	
532	17.7	17.0	
533	16.7	16.3	16.5
534	16.9	16.3	
535	18.1	17.9	18.0
536	16.0	15.2	
537	16.9	16.5	16.7
538	17.7	17.0	
539	17.8	17.3	
540	18.2	17.8	18.0
541	18.3	17.9	18.1
542	18.1	17.6	
543	18.3	18.0	
544	18.2	18.5	
545	18.0	18.3	
546	16.9	16.9	16.9
547	18.0	18.0	18.0
548	17.4	17.0	17.2
549	16.5	16.3	16.4
550	17.7	16.6	
924	17.3	16.5	
925	18.4	18.4	18.4

546 pair 548

Square 24

551	17.6	17.4	17.5

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552	18.3	18.0		
553	18.3	17.9	18.1	
554	15.5	15.1	15.3	
555	17.2	17.4	17.3	
556	17.6	17.3		
557	17.4	17.7		FWW neb?
558	17.3	17.6		
559	17.3	17.2		
560	18.1	17.5		
561	15.0	15.2	15.1	
562	16.2	16.6	16.4	
563	17.3	17.5	17.4	FWW neb?
564	17.9	17.4		
~~565~~				
566	17.7	17.1		
567	18.3	17.8		
568	17.8	17.5		pair
569 B	16.8	17.0	16.9	
569	16.9	16.5	16.7	
569 a	18.2	17.9		
570	16.6	16.3		
571	17.1	16.6		
572	16.0	16.4	16.2	
573	17.1	16.8		
574	18.1	18.0		
575	17.2	16.8	17.0	
576	17.7	16.6		
577	15.8	15.7		
578	17.9	17.2		
579	17.1	16.4		
580	17.6	16.8		
581	16.9	16.6		
926	17.2	17.7		
927				

Square 25

582	17.8	17.5		
583	16.9	17.0		
584	18.3	18.0		FWW neb?
585	17.3	17.0		neb?
586	17.9	17.8		FWW neb?
587	17.4	17.0	17.2	
588	17.0	16.4	16.7	
589	16.8	16.4	16.6	
590	17.6	16.2	~~16.4~~	neb?
591	15.9	15.3	15.6	

Out East

592		15.7		
593		16.5		
594		16.6		
595		18.3		
596		17.3		
597		18.6		FWW neb?

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598	17.5		~~N276~~		
599	16.4		928	16.7	neb?
600	16.4		929	18.3	Bright * P
601	15.1		930	17.9	
602	16.5		931	16.4	
603	16.6		932	16.2	
604	15.9		933	16.5	
605	15.8		934	16.4	
606	15.0		935	17.8	
607	17.5		936	17.6	
608	16.7		937	16.0	
609	17.6	F.W.W. neb?	Out West		
610	]15.0		622	15.1	
611	18.3		623	15.8	
612	17.0		624	]15.0	
613	17.2		625	16.1	
614	16.1		626	16.2	
615	16.1		627	15.7	
616	]15.0		628	16.1	
617	15.6		629	16.1	
618	16.1		630	16.5	
619	]15.0		631	16.0	
620	15.2		632	16.3	
621	15.0		633	16.0	
~~[illegible]~~			634	15.0	

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635	16.7	660	17.5	
636	17.8	661	17.3	
637	17.7	N 276	J 15.0	
		Ic 1591	16.5	
638	16.1	Ic 1588	15.6	
		~~N 270~~		
639	16.1	Hel. 257	15.1	
640	16.1	938	16.4	
641	16.8	939	16.3	
642	16.5	940	16.5	
643	16.5	941	17.8	
644	18.0	942	17.0	
645	16.5	943	16.4	
646	16.8	944	18.0	
647	16.5	945	17.8	
648	15.9	946	17.5	
649	15.8	947	17.0	
650	16.2	948	16.4	
651	17.3	949	16.2	
652	15.2	950	17.0	
653	16.5	951	17.8	neb?
654	16.1	952	15.8	
655	17.2	Out North		
656	16.5	662	16.0	
657	17.4	663	16.3	
658	16.4	664	16.9	
659	16.5	665	17.2	

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666	16.0
667	16.1
668	15.0
669	16.1
670	16.5
671	16.0
672	16.6
673	16.7
674	17.9
675	15.2
676	17.4
678	15.8
678	15.8
679	17.5
680	15.6
681	18.3
682	15.7
683	18.3
684	17.0
685	16.1
686	16.0
687	16.4
688	16.1
689	16.0
690	16.0
691	15.9
692	16.3
693	16.5
694	17.8
695	16.0
696	16.1
697	16.6
698	17.8
699	16.4
700	17.5
701	17.0
702	15.8
703	16.4
704	16.5
9X53	16.7
9X54	16.6
9X55	15.8
Out South	
705	15.5
706	15.0
707	15.8
708	15.6
709	16.7
710	15.8
711	16.1

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712	16.6
713	16.3
714	J 15.0
715	16.0
956	17.4

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A18834

counted Stars have circles

(14.9) {RAP checked by CDB} = X

(15.2) g. m.

15.5

15.7

(15.8) g m

(15.85) X

16.0

16.3

(16.5) Y

16.6

16.8

(17.0) X

17.2

(17.5) Y

17.7

(17.9) {W N V McK. C.DB + fly spanked spam.

Interpolated values by F. W. W.

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1936phae.proj.2372B

A 18834

2 55 -47 5°

Square 1

1	15.0 FWW	21	15.6
2	17.3	22	17.0
3	16.5	23	17.1
4	16.8	24	16.9
5	17.0	25	17.6
6	17.5	26	17.7
7	17.7	27	17.2
		28	17.5
		29	16.8

Square 2

8	16.8		
9	15.8		
10	17.0	neb?	
11	17.1		
12	17.0		
13	17.0		
14	16.6		
15	17.6		
16	17.5		
17	16.8		
18	17.4		
19	17.5		
20	16.8		

Square 3

30	16.8		
31	17.0		
32	15.6		
33	17.0		
34	17.4		
35	16.7		
36	16.8		
37	16.7		
38	16.5		
39	17.7		
40	16.9		
41	17.3		

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42	17.3	
Square 4		
43	] 15.0	
44	16.6	
45	16.9	
46	16.9	
47	17.6	
48	16.9	
49	15.2	
50	] 15.0	
50a	17.7	
51	17.7	
Square 5		
52	15.4	Fwwneb? *?
53	17.3	
54	16.8	
55	] 15.0	
56	16.4	
57	] 15.0	
58	17.5	
59	17.5	
Square 6		
60	17.4	
61	17.4	
62	17.3	
63	17.4	
64	17.4	
65	15.8	
66	17.5	
67	16.9	
68	16.9	
69	16.9	neb?
70	16.9	
71	17.0	
72	16.4	
73	17.7	
74	16.8	
75	17.5	
76	17.7	
77	17.7	
78	17.6	
79	17.4	
80	17.8	
Square 7		
81	16.3	
82	17.0	neb?
83	17.0	
84	17.7	
85	17.0	
86	17.3	

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87	17.0
88	17.9
89	.
90	17.6
91	16.9
92	17.7
93	16.9
94	17.0
95	17.0
96	17.2
97	17.0
98	17.7
99	.
100	16.3
101	17.7
102	17.1
105	17.2
103	17.2
106	17.4
104	17.1

Square 8

107	16.8
108	16.5
109	16.9
110	16.7
111	17.0
112	16.9
113	16.6
114	17.3
115	17.8
116	16.3
117	.
118	17.2
119	16.6
120	16.4
A1	17.8 neb?
122	15.1
123	17.1
124	17.5
125	17.2
126	17.9
127	17.7
128	17.4
129	16.8
130	17.8
131	16.9

Square 9

132	17.8
133	16.8
134	16.8
135	16.5
136	15.0

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137	16.9
138	16.4
139	16.6
140	16.5
141	17.3
142	16.8

Square 10

143	17.3
144	17.4
145	17.7
146	17.5
147	16.8
148	16.6
149	17.0
150	17.7
151	17.6
152	17.5
153	17.3
154	16.8
155	16.5
156	16.9

Square 11

157	17.5	
158	17.0	
159	15.9	
160	17.2	
161	17.5	
162	15.2	
163	16.7	
164	17.4	
165	16.7	
166	16.6	
167	16.5	
168	17.7	
169	16.8	
170	17.6	
171	17.3	
172	16.9	
173	17.5	
174	17.7	
175	17.0	
176	17.3	obj. P.
177	15.7	
178	16.5	
179	17.0	
180	17.0	

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181	16.8
182	.
183	17.5
184	17.4
185	17.4
186	17.5
187	17.5
188	17.4

Square 12

189	16.9
190	17.4
191	17.6
192	16.9
193	16.9
194	15.4
195	16.8
196	16.6
197	17.6
198	17.1
199	17.0
200	16.7
201	17.5
202	17.0
203	17.5
204	17.0
205	16.3
206	17.6
207	17.6
208	17.4
209	16.8
210	17.3
211	17.0
212	16.8
213	16.8
214	16.5
215	17.4
216	16.8
217	16.5
218	16.7
219	17.3
220	17.4
221	17.2
222	.
223	15.5
224	16.9
225	17.0
226	16.9

Square 13

227	16.0
228	17.3

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229	17.1		254	16.9
230	17.7		255	17.0
231	16.7		256	16.4
232	17.6		257	17.5
233	17.1	*follows		
234	17.4		258	17.0
235	17.7		259	15.9
236	17.2		260	17.3
237	17.5		261	15.9
238	17.3		262	16.9
239	17.0		263	17.2
240	16.5		264	16.6
241	17.4		265	17.8
			266	17.2
242	17.6		267	16.2
243	16.7		268	17.2
244	16.5		269	17.1
245	17.0		270	17.1
246	17.6		271	16.7
247	17.1		272	17.8
248	17.4		273	17.3
249	16.6		274	17.1
250	17.2		275	16.7
251	17.2		276	16.8
252	16.8		277	17.2
Square 14			278	]15.0
263	17.2		279	17.2

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280	17.7
281	16.8
282	15.9
283	16.8
284	17.5
285	17.6
286	17.3
287	16.6
288	15.6.

Square 15

289	
290	17.0
291	16.7
292	17.4
293	17.1
294	17.6
295	16.6
296	17.9
297	16.5
298	16.8
299	16.9
300	16.5
301	17.2
302	17.6
303	17.1
304	17.3
305	17.8
306	17.3
307	17.2
308	16.3
309	15.0
310	15.7
311	17.4
312	17.3
313	17.3
314	16.7
315	16.8
316	17.4
317	17.1
318	17.1
319	17.1
320	17.3
321	17.6
322	17.2
323	17.1
324	17.0
325	15.7
326	16.9
327	16.3
328	17.0

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329	17.3
330	17.5
331	16.8
332	16.8
333	17.4
334	17.4
335	17.2
336	16.5
337	16.9
338	16.7
339	17.5
340	17.1
341	17.9
342	17.0
343	16.0
344	16.6
345	17.4

Square 16

346	17.3
347	16.8
348	17.1
349	17.4
350	17.4
351	17.6
352	17.6
353	17.5
354	16.6
355	17.7
356	17.3
357	17.4
358	17.7
359	17.1
360	17.1
361	16.9
362	16.9
363	16.9
364	17.7
365	17.5
366	17.3
367	17.5
368	15.5
369	16.9
370	16.7
371	17.0
372	17.7
373	17.7

Square 17

374	17.2
375	17.0
376	17.0

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377	17.3	402	17.3	Bright * P
378	16.3	403	17.2	
379	16.6	404	16.9	
380	17.3	405	17.5	
		406 a	16.5	
381	17.9	406	16.6	
382	17.9	407	16.9	
383	17.3	408	17.4	
384	17.0	409	17.6	
385	17.4	Square 18		
386	17.3	410	17.7	
387	16.9	411	17.2	
388	17.8	412	17.5	
389	16.6	413	17.5	
~~390~~		414	17.7	
391	17.4	415	17.7	
392	17.5	416	17.0	
393	16.6	417	16.7	
394	16.8	418	16.3	
395	16.8	419	16.7	
396	17.0	420	16.4	
397	16.8	421	17.9	neb?
398	17.9	422	17.2	
399	16.9	423	17.3	
400	16.9	424	17.1	
401	17.9	425	16.8	

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426	17.0	450	J15.0	
427	17.0	451	17.2	
428	16.8	452	17.9	Fww neb?
429	15.5			
430	16.6	453		
431	17.9	454	16.3	
432	17.1	455	16.9	
433	17.0	456	16.9	
434	17.2	457	17.1	
435	16.6	458	17.1	
436	16.5	459	17.7	
437	17.9	460	16.8	
438	17.9	461	16.8	
439	17.0	462	16.9	
440	17.7	463	16.8	
441	17.8	464	17.1	
442	16.7	465	16.9	
443	17.9	466	17.0	
444	16.6	467	17.7	
445	18.0	468	17.5	
659	17.9	469	15.8	
Square 19		470	J15.0	L
446	16.8	471	17.4	
447	16.8	Square 20		
448	16.9	472	16.4	
449	17.6	473	17.3	

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474	17.3	
475	17.1	
476	17.7	
477	17.9	
478	17.2	
479	17.7	
480	16.9	
481	17.0	
482	16.7	
483	16.9	
484	16.8	
485	17.0	
486		
487	16.9	
488	17.2	neb?
489	17.5	
490	17.7	
491	16.0	
492	17.6	
493	17.6	
494	17.1	
495	17.3	
496	16.8	
497	15.7	
498	17.0	
499	17.4	
500	17.5	
501	17.4	

Square 21

502	17.3	
503	16.2	
504	17.6	
505	17.1	
506	16.7	
507	16.9	
508	17.5	
509	17.3	

Square 22

510	17.9	
511	17.9	
512	16.8	
513	16.5	
514	16.9	
515	17.5	
516	17.3	
517	16.7	neb?
518	17.5	
519	17.9	

Square 23

520	17.8	
521	17.1	
522	17.5	

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523	16.5
524	17.0
525	17.3
526	15.0
527	17.5
528	17.5
529	17.7
530	17.0
531	17.4
532	17.0
533	17.3
534	17.8
535	17.1
536	17.3

Square 24

537	17.1
538	16.4
539	16.6
540	17.3
541	16.5
542	17.3

Square 25

543	17.3
544	16.6
545	16.7
546	16.8
547	16.4
548	16.5
549	16.8
550	16.9

Out East

551	16.8
552	16.8
553	17.0
554	17.2
555	15.5
556	16.8
557	17.4
558	16.5
559	15.9
560	15.3
561	17.6
562	17.5
563	17.5
564	17.3
565	17.3
566	16.8
567	17.4
568	17.6
569	17.0

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570	16.6	594	17.2
571	17.7	595	17.6
572	16.5	596	16.5
573	17.7	597	17.0
574	16.4	598	17.3
575	16.6	599	17.0
576	17.2	600	17.1
577	17.6	601	16.2
578	17.5	602	17.0
579	17.0	603	16.8
580	17.0	604	17.7
581	16.7	605	17.6
582	16.8	606	17.5
583	17.7	607	17.3
584	17.4	608	16.9
585	16.6	609	17.3
586	16.5	610	17.0
587	17.4	611	17.3
588	17.3	612	17.3
589	17.5	613	16.8
590	17.5	614	16.9
~~590~~		615	16.2
591	16.8	616	15.9
592	17.2	617	17.5
593	17.4	618	16.8

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619	17.2	

Out West

620	17.3	
621	17.0	
622	17.5	neb?
623	17.5	
624	17.3	
625	17.7	
626	15.8	
627	17.1	
628	17.3	
629	17.7	
630	17.0	
631	17.0	
632	16.6	
633	16.8	
634	16.8	
635	16.6	

Out North

636	17.3	
637	17.3	
638	16.6	
639	15.3	

Out South

640	15.0	
641	16.5	
642	16.6	neb?
643	17.5	
644	17.4	
645	17.4	
646	17.4	
647	16.8	
648	16.8	
649	17.0	
650	17.0	
651	17.0	
652	16.5	
653	16.5	
654	17.5	
655	16.8	
656	17.5	
657	15.4	
658	17.5	

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A 17988

Counted Stars have circles

14.6 J. m

(14.7)

15.0 → 14.9 was changed to 14.7 because of

15.1 J. m Fly Spanker and checking with J M stars.

15.3

(15.5)

15.5 J. m J. M's Used for checking only

15.8

(16.1)

16.3

16.5

16.7

16.9

(17.2)

17.4

(17.6)

17.8 Interpolated by F. W. W.

(18.0)

18.3

18.4

(18.5)

(18.7)

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0 41 -253

Square 1

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Square 2

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Square 3

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Square 4

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Square 5

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Square 6

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Square 7

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Square 8

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920	18.2		945	17.8	
921	18.3		946	17.8	
922	17.8		947	18.4	
923	17.5		948	18.5	
924	17.9		949	18.3	
925	17.6		950	18.7	FWW neb?
926	18.5 7.6		951	18.6	FWW neb?
927	18.5		952	(14.9)	
928	18.4		953	18.3	
929	17.2		954	18.6	FWW neb?
930	17.8		955	(16.8)	
931	18.5		956	18.0	
932	18.5		957	18.5	
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935	18.6	FWW neb?	960	18.4	
936	17.8		961	18.6	
937	18.6		962	18.4	
938	18.1		963	18.7	
939	18.0		964	18.3	
940	17.8		965	(17.2)	
941	16.8		966	17.9	
942	18.4		967	(17.6)	

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970	18.5		995	16.8
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973	18.4		998	18.1
974	18.1		999	17.6
975	18.5		1000	18.7
976	18.7		1001	18.5
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979	17.8		1004	18.7
980	17.2		1005	16.5
981	18.4		1006	17.6
982	16.8		1007	18.5
983	17.9		1008	18.4
984	17.8		1009	17.9
985	18.6		1010	17.5
986	18.0		1011	17.4
987	17.6		IC1576	16.9
988	18.0		IC1578	13.7
989	17.9		2059	17.4
990	18.5		2215	18.6
991	18.4		2216	18.1
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2220	18.6		1017
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Square 25

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2502	2527	18
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2517	1859	18
2918	1860	18
2519	1861	18
2620	1862	18
2521	1863	18
2522	1864	18
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counted stars have circles.

(15.0) E.J

15.3

15.5

(15.8) E.J

15.9

16.0

16.1

16.4

(16.6) E.J

16.8

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17.2

(17.5 4) E.J

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17.9

(18.1) E.J

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18.5

18.6

18.7

(18.9) W.N. V. McK.

Interpolations made by F.W.W.

17.5 changed to 17.4

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1936phae.proj.2372B

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Square 1

	C.D.B.	F.W.W.		
1	18.6 17.9	18.5 18.8	18.5	✓
2	17.6	~~18.2~~ 18.2	17.9	✓
3	17.7 17.0	17.6 18.0	17.6	✓
4	17.2	~~17.6~~ 17.8	17.5	✓
5	18.4	18.7	18.6	✓
6	17.6	~~17.9~~ 18.2	17.9	✓
7	18.3	18.7	18.5	✓
8	17.7	~~17.9~~ 18.3	18.0	✓
9	18.5	18.8	18.7	✓
10	18.8	18.8	18.8	✓
11	18.4 17.8	18.5 18.5	18.3	✓
12	17.6	~~18.2~~ 18.2	17.9	✓
13	18.8	18.7	18.8	✓
14	19.0	19.0	19.0	✓
15	17.8	~~18.5~~ 18.5	18.1	✓
16	17.6	18.0	17.8	✓
17	18.6	18.7	18.7	✓
18	15.5	15.8	15.6	✓
19	18.0	18.4	18.2	✓ neb?
20	18.6	18.8	18.7	✓
21	18.2	18.5	18.3	✓
1399	18.7	18.9	18.8	✓
1400	18.7 18.1	18.7 18.8	18.6	✓
1401	18.5 17.8	18.2 18.6	18.3	✓
1402	18.1	18.6	18.4	✓
1403	18.0	18.5	18.3	✓
1404	18.6	18.9	18.8	✓ neb?
1405	18.5	18.3	18.4	✓
1406	18.7	18.8	18.7	✓
1407	18.4	18.6	18.5	✓
1408	18.8	18.8	18.8	✓
1409	18.9	18.9	18.9	✓
1410	18.6	18.3	18.4	✓

Square 2

22	18.7 17.7	18.7 18.5	18.4	✓
23	17.6 16.7	17.4 17.5	3 17.4	✓
24	18.6 18.0	18.8 18.8	18.6	✓ neb?
25	17.2 16.2	16.8 16.7	16.7	✓ (1326 pairs 25)
26	16.6	17.0	16.8	✓
27	16.5	16.9	16.7	✓
28	15.6	15.9	15.8	✓
29	17.4	17.3	17.3	✓
30	18 5 17.9	17.9 18.7	18.2	✓
31	16.9	17.0	17.0	✓
32	17.7	17.9	17.8	✓

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33	18.6	18.8	18.7	✓		58	17.6	17.6	17.6	✓	
34	18.6	18.7	18.7	✓		59	17,4	17.6	17.5	✓	
35	17.1	17.5	17.3	✓		60	18.4	18.4	18.4	✓	
36	18.8	18.7	18.8	✓		61	18.7	18.5	18.6	✓	
37	18.7	18.7	18.7	✓		62	18.5	18.5	18.5	✓	
38	18.8	18.7	18.7	✓		63	17.7	17.9	17.8	✓	
39	18.0 17.1	17.6 17.9	17.9	✓		64	18.6	18.7	18.7	✓	
40	17.~~4~~ 16.7	17.4 17.4	17.2	✓	neb?	65	18,3	18.4	18.4	✓	
41	17.7	17.7	17.7	✓		66	18.5	18.6	18.5	✓	
42	17.4	17.8	17.6	✓		67	18.7	18.8	18.8	✓	
43	15.9	16.3	16.1	✓		68	18.2	18.5	18.3	✓	
44	18.6	18.5	18.6	✓		69	15.8	16.1	16.0	✓	
45	17.6 16.8	17.1 17.6	17.3	✓		70	17.9	18.0	17.9	✓	
46	17.4 17.1	~~17.3~~ 17.7	17.4	✓		1411	18.6	18.7	18.6	✓	
47	18.3 17.8	18.2 18.4	18.2	✓		1412	18.9	18.8	18.9	✓	
48	18.7	18.8	18.7	✓		1413	18.9	18.9	18.9	✓	
49	17.7	17.8	17.8	✓		1414	18.0	18.4	18.2	✓	
50	18.4 17.6	19.2 18.1	18.1	✓		1415	18.8	18.7	18.8	✓	
51	18.7	18.7	18.7	✓		1416	18.3	18.4	18.3	✓	
52	16.7 15.9	16.4 16.5	16.4	✓		1417	18.8	18.8	18.8	✓	neb? ✓
53	17.8	18.1	18.0	✓		1418	18.8	18.7	18.8	✓	
54	18.2	18.5	18.3	✓		1419	189	18.9	18.9	✓	
55	18.7 ~~17.8~~	18.7 18.7	18.7	✓	Identity not alg. meas.	Square 3					
56	18.8	18.7	18.8	✓		71	15.9	15.8	15.9	✓	FSB
57	18.5	18.5	18.5	✓		72	18.5 18.1	18.5 18.6	18.4	✓	

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73	18 6	18.7	18.7 ✓		98	18.4 18.0	18.2 18.5	18.3 ✓	
74	18.1 17.3	17.7 17.9	17.8 ✓		99	16.9	17.3	17.1 ✓	
75	18.3	18.7	18.5 ✓		100	17.8 ~~16.4~~	17.6	17.7 ✓	
76	17.8 17.2	17.5 17.7	17.5 ✓		100a ✓	17.7	17.8	17.8 ✓	
77	18.3	18.4	18.3 ✓		101	18.5	18.8	18.7 ✓	
78	18.2 17.7	18.0 18.4	18.1 ✓		102	18.3	18.5	18.4 ✓	
79	17.6	17.8	17.7 ✓		103	18.1	18.2	18.2 ✓	
80	18.7	18.8	18.8 ✓		104	17.3	17.6	17.5 ✓	
81	17.5	17.6	17.5 ✓		105	17.6	17.8	17.7 ✓	
82	16.9	17.1	17.0 ✓	Spiral on Edge	106	18.3	18.5	18.4 ✓	
83	18.8	18.8	18.8 ✓		107	17.1 17.1	17.7 17.8	17.4 ✓	
84	16.9	17.1	17.0 ✓		108	18.7	18.5	18.6 ✓	
85	17.2	17.6	17.4 ✓		109	18.4	18.1	18.2 ✓	
~~86~~	n g				110	18.5	18.2	18.3 ✓	
87	17.7	17.7	17.7 ✓		111	18.8	18.7	18.8 ✓	} Pair
88	18.1	18.1	18.1 ✓	neb?	112	18.9	18.8	18.9 ✓	
89	18.6	18.8	18.7 ✓		113	18.7	18.8	18.8 ✓	
90	17.9	17.9	17.9 ✓		114	17.7	17.8	17.7 ✓	
91	18.0	18.0	18.0 ✓		~~115~~	~~18.9~~	~~19.0~~	n g	neb?
92	16.8	17.2	17.0 ✓		116	18.3	18.1	18.2 ✓	* Att
93	18.5 18.0	18.6 18.7	18.5 ✓		117	18.1	18.2	18.2 ✓	
94	17.5	17.7	17.6 ✓		118	18.5 17.9	18.3 18.5	18.3 ✓	
95	18.7 18.1	18.3 18.6	18.4 ✓		119	17.6	17.8	17.7 ✓	
96	18.3 18.0	18.5 18.6	18.4 ✓		120	18.3 18.0	18.5 18.5	18.4 ✓	
97	18.4 18.1	18.3 18.6	18.3 ✓		121	18.8	18.7	18.8 ✓	
					122	18.3 17.7	18.4 18.4	18.2 ✓	

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123	18.8	18.8	18.8	neb?	1432	18.0	17.9	18.0	
124	16.6 16.2	16.8 16.8	16.6		1433	18.8	18.7	18.7	
125	18.9	18.8	18.9		1434	18.5	18.8	18.6	
126	17.0	17.3	17.2		1435	17.5	17.7	17.6	
127	18.1	18.1	18.1		1436	18.6	18.6	18.6	
128	16.5	16.9	16.7		1437	18.3	18.2	18.3	
129	18.4	18.5	18.5		1438	18.8	18.7	18.8	
130	18.3	18.6	18.4		1439	18.7	18.8	18.7	
131	17.9	18.2	18.1		1440	18.8	18.9	18.8	
132	16.8	17.0	16.9		Square 4				
133	17.2	17.4	17.3		136	18.8	18.7	18.7	
134	17.7	17.8	17.8		137	15.6	15.6	15.6	
135	17.3	17.3	17.3		138	18.7	18.7	18.7	
1420	18.8	18.7	18.7		139	18.0	18.2	18.1	
1421	18.7	18.6	18.6		140	17.8	17.9	17.8	
1422	18.8	18.9	18.9		141	18.7	18.9	18.8	
1423	18.8	18.9	18.8		142	17.4	17.7	17.5	
1424	18.7	18.8	18.7		143	18.0	18.1	18.0	
1425	18.8	18.9	18.8	neb?	144	18.4	18.2	18.3	
1426	18.7	18.7	18.7	neb?	145	18.6	18.6	18.6	
1427	18.8	18.7	18.7		146	17.5 16.6	17.2 17.5	17.2	
1428	18.9	18.8	18.8		147	18.6	18.7	18.7	
1429	19.0	18.8	18.9		148	17.8	18.2	18.0	
1430	18.8	18.7	18.7		149	18.3 17.4	17.8 18.1	17.9	
1431	18.9	18.9	18.9		150	18.6	18.8	18.7	

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151	18.5	18.7	18.6 ✓	
152	16.3	16.5	16.4 ✓	
153	18.0	17.6	17.8 ✓	
154	17.3	17.3	17.3 ✓	
155	17.2	17.6	17.4 ✓	
156	18.6	18.7	18.6 ✓	
157	18.4	18.6	18.5 ✓	
158	18.2 17.4	17.6 17.9	17.8 ✓	
159	18.4 17.8	18.5 18.5	18.3 ✓	
160	18.4	18.6	18.5 ✓	neb?
161	17.5	17.6	17.6 ✓	
162	17.6	17.8	17.7 ✓	
163	18.1	18.1	18.1 ✓	
164	18.5	18.6	18.5 ✓	
165	17.1	17.2	17.2 ✓	
166	18.5 17.7	17.8 18.2	18.1 ✓	
167	18.2 17.9	18.2 18.7	18.2 ✓	
168	18.5	18.7	18.6 ✓	
169	17.7	17.8	17.8 ✓	
170	18.6	18.7	18.7 ✓	
171	16.0	16.3	16.2 ✓	
172	18.1 17.4	18.1 17.9	17.9 ✓	
1441	18.4	18.8	18.6 ✓	
1442	18.6	18.7	18.6 ✓	
1443	18.7	18.7	18.7 ✓	
1444	18.3	18.7	18.5 ✓	
Square 5				
173	15.1	15.5	15.3 ✓	
174	16.1	16.5	16.3 ✓	
175	17.3	~~19.6~~ 17.9	17.6 ✓	
176	18.2	~~18.7~~ 18.8	18.5 ✓	
177	18.3	~~18.6~~ 18.9	18.6 ✓	
178	15.4	15.6	15.5 ✓	
179	17.8	18.2	18.0 ✓	
180	18.0	18.2	18.1 ✓	
181	17.1	~~17.4~~ 17.7	17.4 ✓	
182	15.6	15.6	15.6 ✓	
1445	17.7	18.0	17.9 ✓	
1446	18.3	18.7	18.5 ✓	
1447	18.8	18.9	18.8 ✓	neb?
1448	18.6	18.8	18.7 ✓	
1449	16.2	16.5	16.3 ✓	
1450	17.9	~~18.0~~ 18.5	18.2 ✓	
Square 6				
183	18.7	18.8	18.8 ✓	
184	18.9	18.9	18.9 ✓	
185	18.5	18.6	18.5 ✓	
186	17.8	18.1	18.0 ✓	
187	17.0	17.2	17.1 ✓	
188	17.2	17.6	17.4 ✓	

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189	18.6	18.7	18.7 ✓		214	18.7	18.6	18.7 ✓		146
190	18.8	18.6	18.7 ✓		215	17.6	17.6	17.6 ✓	8 faint on neb? Edge	14
191	18.4	18.6	18.5 ✓		216	18.8	18.7	18.8 ✓		14
192	18.9	18.9	18.9 ✓		217	17.3	17.7	17.5 ✓		14
193	18.8	18.8	18.8 ✓		218	17.9 17.3	17.9 17.8	17.7 ✓		14
194	18.9	18.8	18.8 ✓		219	18.2	18.6	18.4 ✓		
196	18.7	18.6	18.7 ✓		220	16.4	16.8	16.6 ✓		23
196	18.6	18.6	18.6 ✓		221	18.9	18.8	18.8 ✓		23
~~197~~	~~18.6~~	~~18.6~~	~ g	neb?	222	18.8	18.7	18.7 ✓		23
198	18.2	18.1	18.2 ✓		223	18.8	18.7	18.8 ✓		23
199	17.4	17.4	17.4 ✓		224	18.7	18.6	18.7 ✓		23
200	18.8	18.7	18.7 ✓	neb? ✓	225	18.9	18.8	18.8 ✓		22
~~201~~	18.2 17.7	18.2 18.3	18.1 ✓	F W W neb? ✓	226	18.6	18.7	18.7 ✓		24
202	18.8	18.6	18.7 ✓		227	18.8	18.9	18.8 ✓		22
203	16.6	16.6	16.6 ✓		228	17.3	17.0	17.1 ✓		22
204	18.8	18.8	18.8 ✓		1451	18.8	18.8	18.8 ✓		22
205	18.8	18.7	18.8 ✓		1452	16.9	17.3	17.1 ✓		22
206	16.9	17.2	17.1 ✓		1453	18.8	18.8	18.8 ✓		23
207	18.7	18.6	18.6 ✓		1454	18.7	18.7	18.7 ✓		23
208	18.8	18.7	18.7 ✓		1455	18.5	18.7	18.6 ✓		23
209	16.7	17.1	16.9 ✓		1456	18.9	18.8	18.8 ✓		23
210	18.5	18.1	18.3 ✓		1457	18.8	18.7	18.7 ✓		23
211	17.0	17.2	17.1 ✓		1458	18.6	18.6	18.6 ✓		23
212	18.9	18.8	18.8 ✓		1459	19.0	18.9	19.0 ✓		23
213	18.6	18.6	18.6 ✓		1460	18.4	18.7	18.5 ✓		23

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1461	18.8	18.9	18.8	
1462	18.9	18.8	18.9	
1463	18.7	18.7	18.7	neb?
1464	18.9	18.8	18.8	
1465	18.7	18.7	18.7	

Square 7

229				
230				
231				
232				
233				
224				
245				
226				
227				
228				
229	17.8	18.0	17.9	
230	18.5	18.3	18.4	
231	18.8	18 8	18.8	
232	17.5	17.6	17.6	
233	17.4	17.6	17.5	
234	17.8	18.2	18.0	F W W neb?
235	18.8	18.9	18.9	F W W neb?
236	18.7	18.8	18.8	
237	16.7	16.9	16.8	

238	17.6	18.0	17.8
239	18.8	18.8	18.8
240	17.8	17.9	17.9
241	18.7	18.8	18.8
242	16.6	16.4	16.5
243	18.3	18.5	18.4
244	18.6 18.5	18.6 18.0	18.4
245	15.9	15.9	15.9
246	18.8	18 8	18.8
247	18.2	18.0	18.1
248	18.6	18.2	18.4
249	18.7	18 8	18.8
250	18.5	18.7	18.6
251	17.9	17.8	17.9
252	18.8	18.6	18.7
253	18.7	18.5	18.6
254	17.5	17.7	17.6
255	18.7	18.5	18.6
256	18.9	18.8	18 8
257	18.3	18.5	18.4
258	18.1	18.5	18.3
259	18.8	18.7	18.7
260	17.9	17.9	17.9
261	19.0	18.9	19.0
262	18.8	18.8	18.8

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263	18.9	18.9	18.9 ✓		288	18.8	18.8	18.8 ✓	
264	18.7	18.8	18.7 ✓		289	18.9	18.7	18.8 ✓	
					290	18.9	18.9	18.9 ✓	
265	18.8	18.8	18.8 ✓	neb?	291	18.8	18.8	18.8 ✓	
266	17.5	17.7	17.6 ✓		292	17.0	17.1	17.1 ✓	
267	18.7	18.8	18.8 ✓		293	18.7	18.8	18.8 ✓	
268	18.6	18.6	18.6 ✓		294	18.9	18.9	18.9 ✓	
269	16.3	16.4	16.3 ✓	16.6	295	18.8	18.8	18.8 ✓	
270	18.5	18.5	18.5 ✓		296	18.9	18.8	18.9 ✓	
271	17.4	17.4	17.4 ✓		297	17.3 16.6	17.0 17.1	17.0 ✓	
272	18.6	18.7	18.6 ✓		298	18.9	18.8	18.9 ✓	
273	18.8	18.8	18.8 ✓		299	17.6 16.5	17.3 17.2	17.1 ✓	
274	18.5	18.2	18.3 ✓		~~300~~	~~17.8~~	~~17.7~~	~~17.8~~	F W W neb?
275	18.5	18.7	18.6 ✓		301	18.9 15.4	15.8 15.9	15.8 ✓	
276	18.4	18.6	18.5 ✓		302	17.8	17.9	17.8 ✓	
277	18.8	18.8	18.8 ✓		303	18.7	18.8	18.7 ✓	
278	18.3	18.1	18.2 ✓		304	18.9	18.8	18.8 ✓	
279	18.8	18.7	18.8 ✓		305	18.9	18.7	18.8 ✓	
280	17.9	17.9	17.9 ✓		306	18.7	18.7	18.7 ✓	
281	18.7	18.8	18.7 ✓		307	18.8	18.7	18.7 ✓	
282	18.0	18.1	18.0 ✓		308	18.5	18.5	18.5 ✓	
283	17.8	17.8	17.8 ✓		309	17.7	18.0	17.8 ✓	
284	15.8	16.0	15.9 ✓		310	]15.0	]15.0	]15.0 ✓	
285	17.7	18.0	17.9 ✓		311	18.7	18.8	18.7 ✓	
286	18.4	18.5	18.4 ✓		312	18.5	18.8	18.6 ✓	
287	18.9	18.7	18.8 ✓		313	18.8	18.9	18.9 ✓	

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314	18.5	18.4	18.4 ✓	obj. att.	Square 8				
315	18.2 17.7	18.0 18.3	18.0 ✓		319	17.9	17.8	17.9 ✓	
316	17.3	17.3	17.3 ✓		320	15.9	15.6	15.8 ✓	Spiral on ✓ Edge
317	18.8	18.8	18.8 ✓		321	18.8	18.9	18.9 ✓	
318	18.4	18.0	18.2 ✓		322	18.3	18.0	18.2 ✓	
N73	J15.0	J15.0	J15.0 ✓		323	17.2	17.1	17.1 ✓	
1466	18.9	18.9	18.9 ✓	F WW neb?	324	17.6	18.0	17.8 ✓	
1467	18.8	18.8	18.8 ✓		325	17.7	17.8	17.8 ✓	
1468	18.7	18.7	18.7 ✓		326	18.5	18.7	18.6 ✓	
1469	18.9	18.9	18.9 ✓		327	18.8	18.9	18.9 ✓	
1470	18.7	18.6	18.6 ✓		328	18.9	18.9	18.9 ✓	
eb? 1471	18.8	18.9	18.9 ✓		329	18.6	18.3	18.4 ✓	
1472	18.8	18.8	18.8 ✓		330	18.0	18.0	18.0 ✓	
1473	18.9	18.7	18.8 ✓		331	16.4	16.4	16.4 ✓	
1474	18.8	18.8	18.8 ✓	neb? ✓	332	17.6	17.6	17.6 ✓	
1475	18.9	18.8	18.8 ✓		333	18.7	18.5	18.6 ✓	
1476	17.6	17.7	17.7 ✓		334	18.5	18.5	18.5 ✓	
1477	18.9	19.0	19.0 ✓		335	18.3	18.2	18.3 ✓	
1478	18.9	18.8	18.9 ✓		336	18.9	18.9	18.9 ✓	
1479	18.9	18.8	18.8 ✓	neb?	337	18.8	18.9	18.8 ✓	
1480	18.8	18.8	18.8 ✓		338	17.8	17.9	17.9 ✓	
1481	18.9	18.8	18.9 ✓		339	18.7	18.6	18.6 ✓	
1482	18.8	18.7	18.8 ✓		340	17.5 17.4	17.0 16.9	17.2 ✓	
1483	18.9	19.0	18.9 ✓	neb? ✓	341	17.8	17.7	17.8 ✓	
					342	17.7	18.0	17.9 ✓	

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343	17.2	17.2	17.2 ✓	368	18.9	18.9	18.9 ✓		3
344	18.6	18.7	18.6 ✓	369	18.7	18.7	18.7 ✓		3
345	17.7 17.1	17.6 17.6	17.5 ✓	1484	18.9	19.0	19.0 ✓		3
346	18.8	18.8	18.8 ✓	1485	18.8	18.7	18.7 ✓		3
347	17.0	17.2	17.1 ✓	1486	18.5	18.8	18.6 ✓		3
348	18.8	18.8	18.8 ✓	~~1487~~	~~19.0~~	~~19.1~~	~~19.1~~	neb?~ F W W neb?	3
349	18.4	18.4	18.4 ✓	1488	18.8 18.0	18.7 18.8	18.6 ✓		3
350	17.1	17.3	17.2 ✓	1489	18.9	19.0	19.0 ✓		3
351	18.8	18.7	18.8 ✓	1490	19.0	19.0	19.0 ✓		3
352	16.7	16.4	16.3 ✓	1491	18.8	18.8	18.8 ✓		3
353	17.7	17.9	17.8 ✓	1492	18.6	18.7	18.7 ✓		3
354	18.4	18.5	18.5 ✓	1493	18.7	18.8	18.8 ✓		3
355	18.1	18.2	18.2 ✓	1494	18.4	18.5	18.5 ✓		3
356	18.6	18.5	18.5 ✓	~~1495~~	~~18.8~~		n g	~~neb?~~	3
357	18.3	18.7	18.5 ✓	1496	18.4	18.5	18.4 ✓		3
358	17.9	18.2	18.0 ✓	1497	18.9	19.0	18.9 ✓		3
359	18.9	18.8	18.9 ✓	1498	18.6	18.5	18.6 ✓		3
360	18.8	18.8	18.8 ✓	1499	18.8	18.6	18.7 ✓		3
361	18.1	18.0	18.0 ✓	1500	18.9	18.8	18.9 ✓		3
362	18.5	18.2	18.3 ✓	1501	18.8	18.8	18.8 ✓		3
363	18.7 18.7	18.7 18.2	18.6 ✓	Square 9					3
364	17.6	17.8	17.7 ✓	370	18.4	18.1	18.2 ✓		3
365	17.7	17.6	17.7 ✓	371	18.9	18.9	18.9 ✓		3
366	18.8	18.8	18.8 ✓	372	18.8	18.9	18.9 ✓		3
367	17.7	17.7	17.7 ✓	373	15.6	15.9	(15.7) ✓		3

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374	17.2	17.4	17.3	
375	18.9	18.9	18.9	
376	17.8	17.9	17.8	
377	17.7	18.1	17.9	
378	16.8	17.1	16.9	
379	18.2	18.5	18.4	
380	18.4	18.2	18.3	
381	16.5	16.1	16.3	
382	18.9	18.9	18.9	
383	18.9	18.9	18.9	neb?
384	18.8	18.5	18.7	
385	18.8 18.8	18.3 18.8	18.7	
386	17.7	17.6	17.7	
387	17.6	17.5	17.6	
388	17.5	17.3	17.4	
389	17.9	18.0	17.9	
390	18.0	18.1	18.0	
391	18.7	18.6	18.7	
392	18.7	18.6	18.6	
393	18.6	18.2	18.4	
394	18.6 18,5	18.0 18.0	18.3	
395	17.8	18.0	17.9	
396	18.1	18.0	18.0	
397	16.3	16.4	16.3	
398	18.8	18.8	18.8	
399	17.1	17.2	17.2	
400	17.5	17.5	17.5	
401	17.6	17.5	17.5	
402	18.6	18.3	18.4	
403	18.7	18.4	18.5	
404	17.5	17.4	17.4	
405	18.8	18.8	18 8	
406	17.7	18.0	17.9	
407	17.7 17.2	17.6 17.8	17.6	
408	18.5	18.1	18.3	
409	18.7	18.7	18.7	
410	17.8	17.5	17.6	
411	16.6	16.7	16.7	
412	18.6	18.4	18.5	
413	16.8	16.8	16.8	
414	18.9	18.8	18.8	
415	16.7	16.9	16.8	
416	15,7	15.6	15.7	irregular 15.5
417	18.2	18.3	18.2	
418	18.2	18.1	18.1	
419	18.1	18.0	18.0	
420	18.8	18.8	18.8	
421	18.3	18.1	18.2	
422	18.5	18.5	18.5	
423	18.3	18.1	18.2	

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424	17.8	17.9	17.9	✓		449	18.8	18.8	18.8	✓	
425	18.2	18.2	18.2	✓		450	17.7	18.0	17.9	✓	
426	18.8	18.8	18.8	✓	neb? ✓	451	16.8	16.9	16.8	✓	
427	18.2 18.0	17.5 17.5	17.8	✓		452	16.2	16.6	16.4	✓	
428	18.1	18.0	18.1	✓		453	18.8	18.8	18.8	✓	
429	18.1	17.9	18.0	✓		454	18.9	18.8	18.9	✓	neb? ✓
430	18.8	18.6	18.7	✓		1502	18.4	18.4	18.4	✓	
431	18.5	18.2	18.4	✓		1503	18.0	18.2	18.1	✓	
432	18.7	18.3	18.5	✓		1504	18.1	18.1	18.1	✓	
433	18.8	18.8	18.8	✓		1505	18.6	18.6	18.4 6		
434	18.9	18.8	18.9	✓		1506	18.7	18.5	18.6	✓	
435	18.0	18.1	18.0	✓		1507	18.4	18.6	18.5	✓	
436	18.7	18.3	18.5	✓	neb? ✓	1508	18.7	18.7	18.7	✓	
437	17.8	18.0	17.9	✓		1509	18.8	18.8	18.8	✓	
438	17.9	18.2	18.1	✓		1510	18.8	18.7	18.8	✓	
439	18.6	18.4	18.5	✓		1511	18.9	18.7	18.8	✓	
440	18.3	18.0	18.2	✓		1512	18.8	18.8	18.8	✓	
441	18.8	18.5	18.7	✓	* att. ✓	1513	18.8	18.7	18.7	✓	
442	18.6	18.6	18.6	✓		1514	18.3	18.2	18.2	✓	
443	16.7	17.0	16.8	✓		1515	18.9	18.8	18.9	✓	
~~444~~		double *				1516	18.9	18.9	18.9	✓	
445	17.8	17.9	17.9	✓		1517	18.7	18.8	18.8	✓	
446	17.7	17.8	17.8	✓		~~1518~~	~~19.0~~	~~19.0~~	~~19.0~~		faw neb?
447	18.8	18.7	18.7	✓		1519	16.2	16.5	16.3	✓	
448	18.6	18.7	18.6	✓		1520	18.9	18.9	18.9	✓	

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1521	18.7	18.8	18.8
1522	18.8	18.9	18.9
1523	18.7	18.6	18.6
1524	18.8	18.8	18.8
1525	18.6	18.6	18.6
1526	18.9	18.8	18.9

Square 10

455	17.9	17.7	17.8
456	17.7	18.1	17.9
457	17.7	18.1	17.9
458	15.9	16.3	16.1
459	18.7	18.6	18.6
460	17.5	17.8	17.7
461	17.7	17.7	17.7
462	18.4	18.8	18.6
463	17.8	17.8	17.8
464	18.9	18.9	18.9
465	17.5	17.9	17.7
466	18.8	18.7	18.8
467	18.9	18 8	18.9
468	18.8	18 8	18 8
469	16.7	16.5	16.6
470	18.3 17.9	18.5 18.5	18.2
471	17.8 17.1	17.7 17.6	17.6
472	16.5	16.9	16.7
473	16.9	17.1	17.0
~~474~~	.		
475	17.2	17.6	17.4
476	18.2 17.7	18.0 18.5	18.1
477	18.2 17.6	18.0 18.5	18.1
1398	17.4	17.8	17.6
1527	18.6	18.8	18.7
1528	18.4 17.9	18.1 18.6	18.2
1529	18.5	18.6	18.6
1530	18.5	18.6	18.5
1631	18.6	18.6	18.6
1532	18.1	18.2	18.2
1533	18.7	18.7	18.7
1634	18.9	18.9	18.9
1535	18.1	18.4	18.3
1536	18.5	18.5	18.5
1537	18.9	18.9	18.9
1538	18.9	18.9	18.9
1539	18.7	18.5	18.6
1540	18.9	18.9	18.9
1541	18.8	18.8	18.8
1542	18.7	18.7	18.7
1543	18.8	18.8	18.8
1544	17.8	17.9	17.8
1546	18.7	18.7	18.7

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1546	18.6	18.7	18.7 ✓		500	18.9	18.8	18.8 ✓		
1547	18.8	18.8	18.8 ✓		501	18.9	18.7	18.8 ✓		
Square 11					502	17.6	17.4	17.5 ✓	def. in film	
~~478~~	~~18.9~~	~~19.0~~		FWW neb? ✓	503	18.7	18.7	18.7 ✓		
479	18.2	18.6	18.4 ✓		1548	19.0	19.0	19.0 ✓	FWW neb? ✓	
480	18.3 17.8	17.8 18.4	18.1 ✓		1549	18.9	18.8	18.9 ✓	asteroid?	
481	17.3	17.7	17.5 ✓		1550	18.7	18.6	18.6 ✓	neb?	
482	18.9	18.9	18.9 ✓		1551	18.6	18.6	18.6 ✓		
483	17.7 17.2	17.5 17.7	17.5 ✓		1552	18.9	18.9	18.9 ✓		
~~484~~	~~18.7~~	~~18.8~~		FWW neb? ✓	1553	18.6	18.7	18.7 ✓		
485	18.8	18.7	18.8 ✓		1554	18.8	18.6	18.7 ✓		
486	18.4 18.0	18.2 18.5	18.3 ✓		~~1555~~	~~18.9~~	~~18.9~~	~~18.9~~	FWW neb?	
487	18.8	18.7	18.7 ✓		1556	17.5	17.5	17.5 ✓		
488	18.4	18.4	18.4 ✓		1557	17.6	17.8	17.7 ✓	neb!	
489	18.5	18.5	18.5 ✓		1558	18.8	18.8	18.8 ✓		
490	18.4	18.4	18.4 ✓		1559	18.6	18.8	18.7 ✓		
491	18.0	17.9	18.0 ✓		1560	18.9	18.9	18.9 ✓		
492	18.8	18.6	18.7 ✓		1561	18.5	18.7	18.6 ✓	neb?	
493	17.7	17.6	17.7 ✓		1562	18.8	18.8	18.8 ✓		
494	18.6	18.6	18.6 ✓		1563	18.6	18.7	18.6 ✓		
495	15.9	15.8	15.8 ✓		1564	18.9	18.9	18.9 ✓		
496	18.2	18.4	18.3 ✓		1565	18.5	18.6	18.5 ✓		
497	18.8	18.8	18.8 ✓		1566	18.8	18.8	18.8 ✓		
498	18.9	18.8	18.9 ✓		1567	18.8	18.9	18.8 ✓		
499	17.0	16.6	16.8 ✓	asteroid?	1568	18.4	18.6	18.5 ✓		

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1569	18.8	18.8	18.8 ✓	
~~1570~~	~~18.8~~	~~19.0~~	~~18.9~~	FWW neb?
1571	18.8	18.8	18.8 ✓	
1572	18.7	18.5	18.6 ✓	
~~1573~~	~~18.9~~	~~18.9~~	~~18.9~~	FWW neb?
~~1574~~	~~18.8~~	.		neb?

Square 12

504	17.1 16.0	16.7 16.5	16.6 ✓	
505	15.9	15.7	15.8 ✓	
~~506~~	~~18.9~~			~~neb?~~
507	18.4	18.0	18.2 ✓	
508	16.3 15.8	16.5 16.5	16.3 ✓	Spiral on Edge
509	18.4	18.0	18.2 ✓	
510	16.6	16.8	16.7 ✓	
511	18.6	18.3	18.4 ✓	
512	18.9	18.9	18.9 ✓	
513	18.4	18.6	18.5 ✓	
514	17.2	17.4	17.3 ✓	
515	18.3	18.0	18.1 ✓	
516	18.8	18.8	18.8 ✓	
517	18.9	18.8	18.8 ✓	
~~518~~	18.2	18.5	18.3 ✓	
~~519~~				= m W 4
~~520~~	17.7	17.9	17.8 ✓	
521	18.8	18.6	18.7 ✓	
522	16.5	16.8	16.6 ✓	
523	18.5	18.5	18.5 ✓	
524	19.0	18.9	18.9 ✓	
525	18.9	18.9	18.9 ✓	
526	17.4	17.7	17.6 ✓	
527	18.7	18.6	18.7 ✓	
528	18.6	18.5	18.6 ✓	
~~529~~	.	double star		~~Katz.~~
530	18.3	18.4	18.3 ✓	
531	17.6	17.8	17.7 ✓	
532	17.6	17.6	17.6 ✓	
533	18.9	18.6	18.8 ✓	
534	18.9	18.9	18.9 ✓	
535	18.0	18.0	18.0 ✓	
536	18.1	17.7	17.9 ✓	Spiral on Edge
537	18.6	18.4	18.5 ✓	
538	18.8	18.4	18.6 ✓	
539	18.6	18.2	18.4 ✓	
540	17.9	17.9	17.9 ✓	
541	18.0	18.0	18.0 ✓	
542	16.4	16.7	16.5 ✓	
543	15.7	15.9	15.8 ✓	
544	18.8	18.6	18.7 ✓	
545	18.9	18.9	18.9 ✓	
546	18.3	18.0	18.2 ✓	

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547	18.4	18.4	18.4 ✓		1580	18.7	18.6	18.6 ✓	
548	18.4	18.4	18.4 ✓		1581	18.6	18.6	18.6 ✓	
549	16.8	16.7	(16.7) ✓		1582	18.9	18.6	18.7 ✓	
550	18.5	18.4	18.4 ✓		1583	19.0	19.0	19.0 ✓	
551	18.3	18.1	18.2 ✓		1584	19.0	19.0	19.0 ✓	
552	18.2	17.8	18.0 ✓		1585	18.8	18.9	18.8 ✓	
553	18.8	18.6	18.7 ✓		1586	18.8	18.7	18.7 ✓	neb?
554	17.2	17.2	17.2 ✓		1587	18.9	18.9	18.9 ✓	
555	18.4	18.6	18.5 ✓		1588	18.5	18.5	18.5 ✓	
556	18.6	18.5	18.6 ✓		1589	18.7	18.6	18.6 ✓	
557	18.6	18.8	18.7 ✓		1590	18.9	18.9	18.9 ✓	
558	17.2	17.4	17.3 ✓		1591	18.7	18.6	18.7 ✓	
559	18.0	17.8 17.9	(17.8) ✓	* att.	1592	18.4	18.3	18.4 ✓	FWW neb? ✓
560	18.5	18.4	18.4 ✓		1593	18.8	18.7	18.7 ✓	
561	18.4 18.3	18.2 17.8	18.2 ✓		1594	18.8	18.7	18.8 ✓	
562	18.7	18.7	18.7 ✓		1595	18.9	18.9	18.9 ✓	
563	17.4	17.8	17.6 ✓		1596	19.0	18.9	18.9 ✓	
564	15.0]15.0	15.2 15.5	15.0 ✓		1597	18.9	18.7	18.8 ✓	
565	18.8	18.6	18.7 ✓		1598	18.8	18.7	18.8 ✓	FWW neb? ✓
M.W. 4	15.2 15.1	15.3 15.6	15.3 ✓		1599	18.9	18.7	18.8 ✓	
1575	18.9	18.6	18.7 ✓		Square 13				
1576	18.8	18.4	18.6 ✓		566	17.5	17.5	17.5	Neb Seq. 17.7 Spiral on Edge
~~1577~~	~~18.6~~			~~neb?~~	567	18.1	18.5	18.3 ✓	18.6
1578	18.8	18.6	18.7 ✓		568	18.8	19.0	18.9 ✓	19.0
~~1579~~	~~18.6~~	~~18.4~~	~~18.6~~	f SWW neb?	569	18.8	18.9	18.8 ✓	19.0

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570	17.5	17.5	17.5	18.0		595	16.6	16.4	16.5 Spiral on Edge
571	18.9	19.0	18.9	19.0	neb?	596	18.2	18.5	18.3 18.8
572	17.8	17.6	17.7	18.9	F.S.B.	597	18.8	18.3	18.6 18.9
573	16.6	16.5	16.6			598	18.5	18.5	18.5 18.8
574	17.5	17.6	17.5	17.8		599	18.8	18.9	18.9 18.9
575	18.2	18.0	18.1	18.4		600	19.0	19.0	19.0 neb?
576	17.0 16.4	17.0 17.0	16.9			601	15.0 15.2	15.4 15.8	15.4 15.4
577	J15.0	J15.0	J15.0			602	18.0	18.1	18.0
578	18.8	18.9	18.8			603	15.9	15.6	15.8
579	17.7	17.5	17.6		Spiral on Edge	~~604~~			~~neb?~~
~~580~~						605	17.1	17.2	17.2
~~581~~						606	18.3	18.4	18.3 } Pair
582	17.8	18.0	17.9	18.1		607	18.7	18.6	18.6 18.5
583	18.7	18.7	18.7	18.9		608	18.7	18.6	18.7 18.8
~~584~~	~~18.1~~	~~18.1~~	~~18.1~~		FWW neb?	609	18.3	18.6	18.4 18.9
585	18.0	18.0	18.0	18.1		610	J15.0	J15.0	J15.0
586	17.4	17.3	17.3	17.4		611	16.9	16.9	16.9
587	17.7	18.0	17.8	18.1		612	18.0	18.4	18.2 18.5
588	J15.0 J15.0	J15.0 J15.3	J15.0		Spiral L	613	19.0	19.0	19.0
589	18.9	18.7	18.8	19.0		614	17.0	17.4	17.2
590	17.6	17.4	17.5	17.9		615	18.4	18.4	18.4
591	18.1	18.5	18.3			616	18.8	18.9	18.9
592	18.4	18.4	18.4	18.2		617	17.9	18.0	18.0 617 pair 606
593	17.9	18.2	18.1	18.0		618	17.1	17.1	17.1 F.S.B.
594	18.3	18.4	18.4	18.3		619	17.3	17.2	17.3 17.6

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620	18.0	18.0	18.0 ✓		645	18.7	18.4	18.6 ✓	
621	17.8	18.0	17.9 ✓		646	18.9	18.7	18.8 ✓	
622	17.6	17.6	17.6 ✓ 18.0 Spiral on Edge		647	18.0	18.1	18.1 ✓	
623	18.8	18.8	18.8 ✓		648	18.4	18.4	18.4 ✓	
624	18.2 17.7	18.3 18.4	18.2 ✓		649	18.6	18.5	18.6 ✓	
625	18.4	18.2 18.2	(18.2) ✓		1600	18.9	19.0	18.9 ✓	
626	18.8	18.8	18.8 ✓		1601	18.8	18.8	18.8 ✓	
627	18.2 17.8	17.8 18.3	18.0 ✓		~~1602~~	~~18.8~~	n g		~~neb?~~
628	18.2	18.4	18.3 ✓		1603	18.8	18.8	18.8 ✓	
629	17.7	18.0	17.9 ✓ Fww neb? ✓		1604	18.9	18.8	18.8 ✓	
630	18.4 17.6	18.4 18.5	18.2 ✓		1605	18.8	18.7	18.7 ✓	Fww neb? ✓
631	18.4 17.3	17.9 17.8	17.8 ✓		1606	18.8	19.0	18.9 ✓	
632	17.5	17.5	17.5 ✓		1607	18.6	18.7	18.6 ✓	
633	17.3	17.5	17.4 ✓		1608	18.8	18.7	18.7 ✓	
634	18.8	18.8	18.8 ✓		1609	16.3	16.3	16.3 ✓	
635	17.5	17.6	17.5 ✓ 17.2		1610	18.9	18.9	18.9 ✓	
636	18.9	19.0	19.0 ✓		~~1611~~	~~18.9~~	~~18.8~~	~~18.8~~	Fww neb?
637	18.5	18.5	(18.5) ✓ S L		1612	18.6	18.7	18.7 ✓	
638	18.3	18.4	18.3 ✓		1613	18.7	18.6	18.6 ✓	
639	18.9	18.9	18.9 ✓		1614	18.8	18.7	18.7 ✓	
640	17.1	17.3	17.2 17.3 Spiral on Edge		1615	18.7	18.7	18.7 ✓	
641	17.3	17.3	(17.3) ✓ Spiral on ✓ Edge		Square 14				
642	15.0	15.1	(15.0) ✓		650	18.6	18.5	18.6 ✓	
643	15.3	15.8	(15.6 5) ✓ Spiral on ✓ Edge		651	18.7	18.6	18.7 ✓	
644	18.4	18.5	18.5 ✓		652	16.9	17.2	17.0 ✓	

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653	17.2	17.3	17.3	17.5 Spiral on Edge	678	18.2	18.0	18.1	
654	17.7	17.7	17.7		679	17.9	17.7	17.8	
655	17.6	17.8	17.7		680	18.8	18.8	18 8	
656	17.8	18.2	18.0		681	18.1	18.1	18.1	
657	17.7	18.1	17.9		682	17.1	17.5	17.3	Spiral on Edge
658	18.6	18.6	18.6		683	17.7	17.8	17.8	
659	18 1	18.2	18.2		684	18.2	18.2	18.2	
660	18.0	18.0	18.0		685	18.3	18.1	18.2	
661	18.7	18.8	18.7	E.S.B.	686	17.5	17.6	17.5	
662	18.8	18.9	18.8		687	17.0	16.7	16.8	
663	18.4	18.4	18.4		688	18.6	18.7	18.7	
664	18.1	18.2	18.1		689	17.3	17.5	17.4	
665	17.9	17.8	17.8		690	17 4	17.6	17.5	
666	18.8	18.8	18.8		691	18.8	18 8	18 8	
667	17.7	18.0	17.9		692	18.7	18.6	18.6	
668	18.7	18.8	18.8		693	16.8	16.6	16.7	
669	17.3	17.6	17.5		694	18.0	18.0	18.0	
					695	18.7	19.0	18.9	
670	15.1	15.3	15.2	Spiral on Edge	696	17.5	17.6	17.6	
671	17.1	17.2	17.1		697	15.4	15.4	15.4	
672	18.8	18.7	18.8		698	17.2	17.2	17.2	
673	18.8	18.8	18.8		699	17.3	17.5	17.4	
674	18.8	18.8	18.8		700	18.5	18.8	18.7	
675	18.7	18.7	18.7		701	17.9	18.1	18.0	
676	18.7	18.8	18.7		1616	18.8	18.7	18.8	
677	17.6	17.8	17.7		~~1617~~	~~18.8~~	n g		~~neb?~~

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1618	19.0	18.9	18.9 ✓		1643	19.0	19.0	19.0 ✓
1619	18.7	18.8	18.8 ✓		1644	18.6	18.5	18.5 ✓
1620	18.8	18.8	18.8 ✓		1645	18.4	18.2	18.3 ✓
1621	18.9	18.8	18.9 ✓		Square 15			
1622	18.8	18.9	18.8 ✓		702	18.7	18.8	18.8 ✓
1623	18.6	18.7	18.7 ✓		703	17.7	17.7	17.7 ✓
1624	19.0	18.9	19.0 ✓		704	17.4	17.6	17.5 ✓
1625	17.6	17.9	17.7 ✓		705	18.7	18.7	18.7 ✓
1626	15.0	15.2	15.1 ✓		706	17.2	17.3	17.3 ✓
1627	18.9	18.9	18.9 ✓		707	18.8	18.8	18.8 ✓
~~1628~~	~~19.0~~	~~19.0~~	~~19.0~~	~~neb?~~	708	18.2	18.4	18.3 ✓
1629	18.9	18.9	18.9 ✓		709	18.9	18.8	18.8 ✓
1630	18.8	18.8	18.8 ✓		710	17.7	17.7	17.7 ✓
1631	18.8	18.7	18.8 ✓		711	18.6	18.7	18.7 ✓
1632	18.8	18.7	18.7 ✓		712	17.7	17.8	17.8 ✓
1633	17.8	17.8	17.8 ✓		713	18.8	18.7	18.7 ✓
1634	18.6	18.8	18.7 ✓		714	18.2	18.5	18.4 ✓
1635	18.9	19.0	19.0 ✓		715	18.8	18.7	18.7 ✓
1636	18.7	18.8	18.7 ✓		716	18.8	18.7	18.8 ✓
1637	18.9	18.9	18.9 ✓		717	16.9	16.6	16.7 ✓
1638	18.8	18.9	18.8 ✓		718	18.7	18.7	18.7 ✓
1639	18.8	18.9	18.9 ✓		719	17.2	17.5	17.4 ✓
1640	18.6	18.7	18.6 ✓		720	17.6	17.8	17.7 ✓
1641	18.5	18.8	18.7 ✓		721	18.2	18.7	18.5 ✓
1642	18.8	18.9	18.8 ✓		722	18.5 / 18.1	18.7 / 18.7	18.5 ✓

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723	18.3 17.8	18.0 18.3	18.1	✓	748	18.7	18.5	18.6	✓
724	18.4 17.9	18.6 18.5	18.4	✓	749	18.3 17.3	17.9 18.1	17.9	✓
725	18.7	18.7	18.7	✓	750	17.8	18.0	17.9	✓ * att
726	17.8	17.6	17.7	✓	751	17.6	17.7	17.6	✓
727	18.6	18.6	18.6	✓	752	16.5	16.4	16.5	✓
728	17.7	17.7	17.7	✓	753	17.8 17.0	17.8 17.6	17.6	✓
729	18.3	18.6	18.5	✓	754	18.2 17.4	18.6 18.6	18.2	✓
730	18.8	18.8	18.8	✓	755	17.2	17.4	17.3	✓
731	16.7	17.2	17.0	✓	756	18.1	18.1	18.1	✓
732	18.6 18.0	18.6 18.7	18.5	✓	757	17.9	18.0	18.0	✓
733	18.6	18.8	18.7	✓	758	16.8	17.0	16.9	✓
734	18.0	18.4	18.2	✓	1646	18.9	18.8	18.9	✓
735	17.7	17.7	17.7	✓	1647	18.8	18.9	18.8	✓ neb? ✓
736	17.6	17.5	17.5	✓	1648	18.7	18.7	18.7	✓
737	15.6	15.7	15.6	✓	1649	18.9	18.7	18.8	✓ neb? ✓
738	18.8	18.8	18.8	✓	1650	19.0	18.9	18.9	✓
739	18.3	18.6	18.5	✓	1651	18.9	18.9	18.9	✓
740	18.5	18.8	18.6	✓	1652	18.7	18.8	18.8	✓
741	17.3	17.4	17.3	✓	1653	18.2	18.6	18.4	✓
742	17.8	18.0	17.9	✓	1654	18.8	18.7	18.7	✓
743	17.7	18.2	18.0	✓	1655	18.7	18.6	18.6	✓
744	18.4	18.6	18.5	✓	1656	18.9	18.7	18.8	✓
745	18.2	18.7	18.5	✓	1657	18.3	18.4	18.3	✓
746	17.6	18.0	17.8	✓	1658	18.8	18.7	18.8	✓
747	18.2	18.2	18.2	✓	1659	18.8	18.6	18.7	✓

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1660	18.6	18.7	18.7 ✓		770	18.5 17.8	18.2 18.7	18.3 ✓	
1661	18.6	18.7	18.6 ✓		771	18.4 17.7	18.8 18.7	18.4 ✓	
1662	18.7	18.8	18.7 ✓		772	17.7	18.0	17.9 ✓	
1663	18.8	18.8	18.8 ✓		773	18.2 18.2	18.7 18.7	18.5 ✓	
1664	18.8	18.7	18.8 ✓		774	18.4 17.8	18.6 18.7	18.4 ✓	
1665	18.9	18.9	18.9 ✓		775	18.7 18.3	18.7 18.8	18.6 ✓	
1666	18.7	18.6	18.7 ✓		776	16.6	15.7	15.6 ✓	
1667	18.5	18.6	18.6 ✓		777	18.6 17.6	18.2 18.2	18.2 ✓	* att. ✓
1668	18.8	18.7	18.7 ✓		778	18.5 18.1	18.6 18.7	18.5 ✓	
1669	18.7	18.7	18.7 ✓		779	16.6	16.7	16.7 ✓	
1670	18.9	18.8	18.8 ✓		780	18.0	18.0	18.0 ✓	
1671	18.8	18.8	18.8 ✓		781	17.8	17.5	17.6 ✓	Spiral on Edge
1672	18.6	18.8	18.7 ✓		782	17.8	17.6	17.7 ✓	
Square 16					783	17.5	17.7	17.6 ✓	
759	18.5	18.7	18.6 ✓		784	17.4	17.7	17.5 ✓	
760	16.3	16.4	16.3 ✓		N62	]15.0	]15.0	]15.0 ✓	
761	15.6	15.7	(15.6) ✓	F.S.B.	1673	18.8	18.6	18.7 ✓	
762	18.4	18.8	18.6 ✓	} pair	1674	18.6	18.2	18.4 ✓	neb?
763	18.5 18.0	18.0 18.5	18.2 ✓		1675	18.4	18.6	18.5 ✓	
764	18.1	18.3	18.2 ✓		1676	18.8	18.9	18.8 ✓	
765	18.7	18.7	18.7 ✓		1677	18.8	18.8	18.8 ✓	
766	17.1	17.2 17.8	17.2 ✓		1678	18.4	18.5	18.5 ✓	
767	17.5	17.9	17.7 ✓		1679	18.5	18.8	18.6 ✓	
768	17.3 16.6	17.1 17.3	17.1 ✓		1680	18.5	18.7	18.6 ✓	
769	18.3 17.4	17.7 18.1	17.9 ✓	F.S.B. ✓	1681	18.8	18.7	18.7 ✓	neb? ✓

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1682	18.5	18.6	18.6		812	18.6	18.5	18.6	
1683	18.6	18.8	18.7		~~813~~	.		defect	
Square 17					814	18.7	18.6	18.7	
~~785~~	18.6	18.8	18.7		815	17.9	18.0	18.0	
786	18.8	18.8	18.8		816	18.5	18.6	18.5	
787	18.6	18.8	18.7						
788	18.7	18.8	18.8		817	17.3	17.3	17.3	
789	15.1	15.6	15.4		818	17.9	18.1	18.0	
790	18.4	18.3	18.3		819	18.7	18.7	18.7	
791	18.6	18.6	18.6		820	18.7	18.8	18.8	
793	18.4	18.4	18.4						
794	18.3	18.1	18.2		821	18.6	18.7	18.7	
795	17.7	17.9	17.8						
~~796~~				mw 5	822	18.1	18.4	18.2	
797	18.4	18.1	18.2						
798	18.7	18.7	18.7		~~823~~	~~17.3~~	duplicate		
799	18.8	18.7	18.7		823	17.3	17.7	17.5	
800	19.0	19.0	19.0	neb?	824	18.7	18.6	18.7	
801	17.9 17.2	18.0 17.8	17.7		825	16.7	16.7	16.7	FSB
802	17.8	18.0	17.9		826	18.6	18.6	18.6	
803	18.8	18.8	18.8		827	18.9	18.8	18.8	
804	17.4 17.1	17.5 17.6	17.4	Spiral on Edge	828	15.8	16.2	16.0 16.1	Spiral on Edge
805	17.5	17.9	17.7	pair	829	18.4	18.6	18.5	
806	16.2	16.4	16.3		830	18.0	17.7	17.9	
807	16.0	16.6 15.8	16.1	16.0 FSB	831	17.6	17.9	17.8	
~~808~~	.	double *			832	17.3	17.6	17.5	
809	17.5	17.7	17.6		833	18.6	18.8	18.7	
810	18.8	18.8	18.8		834	18.8	18.6	18.7	
811	18.8	18.7	18.7		835	18.9	19.0	19.0	

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836	18.6	18.6	18.6	
837	18.4	18.4	18.4	F W W neb?
838	17.4	17.7	17.5	
	17.8	18.0		
839	17.2	17.9	17.7	
840	17.2	17.6	17.4	
	15.0	15.4		
I 9	15.0	15.0	15.0	
mw5	15.8	15.8	15.8	
mw6	16.0	16.0	16.0	
1684	18.7	18.8	18.8	
1685	18.8	18.9	18.9	
1686	17.9	18.1	18.0	
1687	18.8	18.9	18.8	
1688	17.8	17.7	17.7	
1689	18.8	18.8	18.8	
1690	18.9	18.9	18.9	
1691	18.9	18.9	18.9	
1692	18.8	18.9	18.8	
1693	18.8	18.8	18.8	

Square 18

842	15.4	15.5	15.5	
843	18.4	18.8	18.6	
844	18.9	18.9	18.9	
	16.7	16.7		
845	16.3	16.8	16.6	
846	18.4	18.1	18.3	
847	18.1	18.0	18.0	
848	18.5	18.2	18.3	
849	18.8	18.5	18.7	
860	18.2	18.0	18.1	
851	18.4	18.6	18.5	
852	17.1	17.2	17.2	
853	18.7	18.8	18.7	
854	18.9	18.9	18.9	
855	18.5	18.6	18.6	
856	18.1	18.3	18.2	
857	18.6	18.9	18.7	
858	18.5	18.5	18.5	
859	18.8	18.9	18.8	
860	18.2	18.5	18.3	
861	18.4	18.7	18.6	
862	17.8	18.2	18.0	
863	18.8	19.0	18.9	F W W neb?
864	18.4	18.5	18.5	
865	18.5	18.5	18.5	
866	17.7	18.0	17.8	
	17.3	17.5		
867	16.9	17.5	17.3	Spiral on Edge
868	16.7	17.1	16.9	
869	18.9	18.8	18.9	
870	18.8	18.7	18.8	
	17.4	17.5		
871	16.8	17.4	17.3	

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872	18.8	18.7	18.7		897	18.4	18.5	18.4	
873	18.7	18.8	18.8		898	18.7	18.7	18.7	
874	17.9	17.9	17.9		899	18.9	18.9	18.9	
875	18.4	18.6	18.5		900	18.8	18.9	18.9	
876	18.4 18.1	18.2 18.6	18.3		901	18.3	18.5	18.4	
877	16.6 15.4	15.8 16.2	16.0		902	18.6	18.6	18.6	
878	18.6	18.7	18.6		903	18.9	18.9	18.9	
879	18.8	18.8	18.8		904	18.2	18.4	18.3	
880	17.6	17.8	17.7		905	17.9	18.3	18.1	
881	18.8	18.8	18.8		906	18.8	18.8	18.8	
882	18.7	18.9	18.8		907	18.7	18.8	18.8	
883	18.9	19.0	18.9		908	18.7	18.8	18.7	
884	18.8	18.8	18.8		909	18.6	18.2	18.4	
885	17.7	17.7	17.7		910	16.7 16.4	17.2 17.3	16.9	} pair
					910a	18.2	17.8	18.0	
886	17.2	17.4	17.3		911	18.8	18.8	18.8	
887	18.8	18.7	18.8		912	18.2	18.4	18.3	
888	18.5	18.1	18.3		913	19.0	18.9	19.0	
~~881~~	~~19.0~~	~~19.0~~	~~19.0~~	F ww neb?	914	18.7	18.9	18.8	
890	18.9	18.8	18.9		N102	15.0 15.0	15.0 15.2	15.0	
891	17.7	17.8	17.8		1694	18.7	18.5	18.6	
892	18.4	18.7	18.5		1695	18.6	18.6	18.6	
893	18.1	18.5	18.3		1696	18.9	18.8	18.9	
894	18.9	19.0	19.0		1697	18.9	18.8	18.8	
895	18.8	18.8	18.8		1698	18.4	18.4	18.4	
896	18.9	19.0	18.9		1699	18.9	19.0	18.9	

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~~1700~~	~~18.8~~		n g		~~neb?~~	932	18.7		18.5	18.6 ✓	
1701	18.9		18.8	18.8 ✓		933	18.6		18.5	18.6 ✓	
1702	18.8		18.8	18.8 ✓		934	18.4		18.4	18.4 ✓	
~~1703~~	~~19.0~~		~~19.0~~	~~19.0~~	FWW neb?	935	18.5	18.2		18.3 ✓	
1704	18.8		19.0	18.9 ✓		936	16.5 16.4	17.0 17.1		16.7 ✓	
1705	17.7		17.9	17.8 ✓		937	16.3	16.6		16.4 ✓	F S B * inv
1706	18.8		18.7	18.7 ✓		938	18.7	18.8		18.7 ✓	
Square 19						939	18.8	18.9		18.8 ✓	
916	18.4	18.5		18.4 ✓		940	17.3	17.5		17.4 ✓	
916	15.9	16.3		16.1 ✓		941	18.7	18.8		18.7 ✓	
917	17.0	17.4		17.2 ✓	neb?	942	18.5	18.2		18.4 ✓	
918	18.4	18.4		18.4 ✓		943	18.4	18.3		18.3 ✓	
919	18.8	19.0		18.9 ✓		944	18.5	18.5		18.5 ✓	
920	17.3 16.6	17.1 17.1		17.0 ✓	Spiral on ✓ Edge	945	18.8	18.8		18.8 ✓	
921	17.0	17.2		17.1 ✓		946	18.9	18.9		18.9 ✓	
922	18.4	18.6		18.5 ✓		947	18.8	18.8		18.8 ✓	
923	16.3	16.5		16.4 ✓		948	17.7	18.0		17.8 ✓	
924	15.0	15.1		15.0 ✓		949	17.8	18.1		17.9 ✓	
925	18.6 18.7	18.6 18.2		186 ✓		950	18.4 17.7	17.9 18.2		18.0 ✓	
926	18.9	18.9		18.9 ✓		951	18.4	18.5		18.5 ✓	
927	16.9 15.9	16.6 16.4		16.5 ✓		952	18.7	18.7		18.7 ✓	
928	18.0	18.2		18.1 ✓		953	18.4	18.7		18.6 ✓	
929	18.8	18.8		18.8 ✓		954	18.8	18.9		18.9 ✓	
930	18.7	18.8		18.7 ✓		955	18.5	18.7		18.6 ✓	
931	18.3 17.8	18.3 18.4		18.2 ✓		956	18.3 17.9	18.3 18.5		18.3 ✓	

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957	18.9	18.8	18 8 ✓		~~1712~~	~~18.9~~	~~19.0~~	n g	neb?
958	15.9	16.2	16.1 ✓	Spiral on Edge	1713	18.8	18.9	18.8 ✓	
959	17.4	17.5	17.4 ✓		1714	18.9	18.9	18 9 ✓	
960	18.8	18.8	18.8 ✓		1715	18.8	18.8	18.8 ✓	
961	18.7	18.7	18.7 ✓		1716	18.7	18.8	18.7 ✓	
962	18.5	18.7	18.6 ✓		1717	18.7	18.8	18.8 ✓	
963	18.3	18.6	18.5 ✓		1718	18.7	18.7	18.7 ✓	
964	18.5	18.6	18.6 ✓		1719	18.8	18.7	18.7 ✓	
~~965~~	~~17.8~~	n g			1720	18.8	18.7	18.8 ✓	
966	17.8	18.0	17.9 ✓		1721	18.4	18.6	18.5 ✓	
967	17.9	18.1	18.0 ✓		1722	18.7	18.5	18.6 ✓	
968	16.9	17.3	17.1 ✓	L	1723	17.9	18.3	18.1 ✓	
969	18.4	18.8	18.6 ✓		1724	18.8	18.9	18.9 ✓	
970	15.7	15.9	15.8 ✓		1725	17.4	17.8	17.6 ✓	
971	17.6	17.8	17.7 ✓		Square 20				
972	18.2	18.1	18.1 ✓		977	18.7	18.7	18.7 ✓	
973	18.3	18.1	18.2 ✓		978	18.8	18.7	18.8 ✓	neb?
974	18.8	18.9	18.8		979	18.8	18.7	18.7 ✓	
975	18.9	19.0	18.9 ✓		980	18.8	18.6	18.7 ✓	
976	18.8	18.7	18.8 ✓		981	17.4	17.8	17.6 ✓	
1707	18.8	18.9	18.~~7~~ 9		982	18.2	18.5	18.4 ✓	
1708	18.4	18.5	18.4 ✓		983	18.8	18.8	18.8 ✓	
1709	18.7	18.6	18.7 ✓		984	18.9	18.8	18.9 ✓	
1710	18.8	19.0	18.9 ✓		985	18.3 17.9	18.4 18.5	18.3 ✓	
1711	18.4	18.4	18.4 ✓		986	18.2	18.5	18.4 ✓	

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987	18.7	18.7	18.7		1012	18.1	18.2	18.2	
988	18.5	18.7	18.6		1013	18.6	18.8	18.7	
989	15.8 15.6	16.2 16.1	16.9		1014	17.8	17.9	17.9	
990	18.2	18.5	18.3		1016	18.8	18.8	18.8	
991	18.4	18.5	18.4		1016	18.6	18.6	18.6	
992	17.5	17.7	17.6		1017	18.8	18.7	18.8	
993	17.6	17.6	17.6		1018	17.7	18.0	17.9	
994	18.6	18.5	18.5	neb?	1019	18.4	18.7	18.6	
996	18.7	18.8	18.8		1020	17.8	17.9	17.9	
996	15.9	16.3	16.1		1021	18.0	17.9	18.0	Faint obj. follows
997	17.3 17.2	17.1 17.2	17.2		1022	18.1	18.3	18.2	
998	16.9 16.0	16.8 16.9	16.7		1023	17.8 17.1	17.5 17.7	17.5	
999	18.9	18.9	18.9		1024	17.7 16.9	17.5 17.4	17.4	
1000	16.7 16.2	17.1 16.8	16.7		1026	17.1	17.5	17.3	
1001	18.6	18.5	18.5		1026	18.8	18.8	18.8	
1002	16.6	16.8	16.7	neb?	1027	15.3	15.6	15.5	
1003	16.6	15.9	16.0		1028	18.7 18.4	18.8 18.9	18.7	
1004	18.7	18.6	18.7		1029	17.6	17.7	17.6	
1005	18.8	18.8	18.8		1030	18.1	18.2	18.1	
1006	18.4	18.5	18.4		1031	18.7	18.8	18.8	
1007	18.3	18.5	18.4		1032	18.5	18.7	18.6	
1008	17.8	17.8	17.8		1033	17.9	18.2	18.1	
1009	18.5	18.6	18.5		1034	17.3 16.3	16.5 16.8	16.7	
1010	18.8	18.7	18.8		1035	18.7	18.7	18.7	neb?
1011	17.2	17.3	17.3		1036	18.3	18.0	18.2	

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1037	18.8	18.8	18.8 ✓		1737	18.7	18.8 18.7	18.7 ✓
1038	18.5	18.7	18.6 ✓		1738	17.7	17.7	17.7 ✓
1039	15.0]15.0	15.1 15.1	15.0 ✓		1739	17.8	17.8	17.8 ✓
1040	18.6	18.8	18.7 ✓		1740	18.1	18.1	18.1 ✓
1041	18.3	18.7	18.5 ✓		1741	18.7	18.8	18.8 ✓
1042	17.1	17.5	17.3 ✓		1742	17.5	17.7	17.6 ✓
1043	17.3	17.6	17.5 ✓		Square 21			
1044	18.0	18.3	18.2 ✓		1048	17.0 15.9	16.7 17.1	16.7 ✓
1045	18.2 17.6	18.0 18.7	18.1 ✓		1049	17.1	~~17.5~~ 17.8	17.5 ✓
1046	18.1	18.3	18.2 ✓		1050	18.1	18.4	18.2 ✓
1047	18.5	18.7	18.6 ✓		1051	16.7	17.1	16.9 ✓
N136	]15.0	]15.0	]15.0 ✓		1052	17.2	17.7	17.5 ✓
IC27	]15.0]15.0	15.1 15.4	]15.0 ✓		1053	17.8	18.1	18.0 ✓
IC28	]15.0	]15.0	]15.0 ✓		1054	17.7	~~18.2~~ 18.4	18.0 ✓
1726	18.8	18.8	18.8 ✓		1055	17.5	18.0	17.7 ✓
1727	18.9	18.9	18.9 ✓		1056	17.6	17.6	17.6 ✓
1728	18.7	18.8	18.7 ✓		1057	17.2	17.2	17.2 ✓
1729	18.8	18.8	18.8 ✓		1058	17.5	17.3	17.4 ✓ * att ~
1730	18.7	18.8	18.8 ✓		1059	15.7	15.5	15.6 ✓
1731	18.8	18.7	18.7 ✓		1060	16.4	16.5	16.4 ✓ } Pair
1732	18.7	18.8	18.8 ✓		1061	16.9	17.0	16.9 ✓
1733	18.6	18.6	18.6 ✓		1743	18.7	18.9	18.8 ✓
1734	17.8	18.1	17.9 ✓		1744	18.7	18.8	18.8 ✓
1735	18.7	18.7	18.7 ✓		1745	17.8	18.2	18.0 ✓
1736	18.8	18.6	18.7 ✓					

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Square 22

1062	17.6	18.1	17.9 ✓	
1063	15.8	16.2	16.0 ✓	
1064	17.6	18.1	17.8 ✓	
1065	18.3	18.3	18.3 ✓	* att. neb?
1066	17.8 (18.5)	18.7 (18.7)	18.4 ✓	
1067	17.7	18.0	17.9 ✓	
1068	18.3	18.6	18.4 ✓	
1069	18.4	18.5	18.5 ✓	
1070	17.1	17.3	17.2 ✓	
1071	18.8	18.8	18.8 ✓	
1072	18.8	18.8	18.8 ✓	
1073	17.6	18.1	17.8 ✓	
1074	17.7 (18.4)	18.4 (18.4)	18.2 ✓	
1075	17.5 (18.2)	18.1 (17.7)	17.9 ✓	
1076	17.4 (18.0)	17.9 (18.1)	17.9 ✓	
1077	18.4	18.5	18.4 ✓	
1078	18.0	18.3	18.1 ✓	
1079	18.9	18.8	18.8 ✓	
1080	16.9	17.0	16.9 ✓	
1081	17.7	18.0	17.8 ✓	
1082	18.0	18.4	18.2 ✓	
1083	17.5	17.6	17.5 ✓	
1084	17.0	17.0	17.0 ✓	
1085	18.3	18.5	18.4 ✓	
1086	18.1	18.2	18.2 ✓	
1087	17.9	17.9	17.9 ✓	
1088	16.2	16.5	16.3 ✓	
1089	18.1	18.4	18.2 ✓	
1090	16.8	17.1	16.9 ✓	
1746	17.7	18.0	17.8 ✓	
1747	18.3	18.2	18.3 ✓	neb? ✓
1748	17.6	17.8	17.7 ✓	
1749	18.1 (18.4)	18.6 (18.7)	18.4 ✓	
1750	18.4	18.7	18.5 ✓	
1751	18.5	18.8	18.6 ✓	
1752	17.9 (18.5)	18.7 (18.5)	18.4 ✓	
1753	18.8	18.7	18.7 ✓	
1754	18.9	18.9	18.9 ✓	
1755	18.8	18.8	18.8 ✓	
1756	17.7	18.1	17.9 ✓	
1757	18.8	18.8	18.8 ✓	
1758	18.6	18.7	18.6 ✓	

Square 23

1091	18.5	18.8	18.7 ✓	
~~1092~~		double *		
1093	18.6	18.8	18.7 ✓	
1094	18.3	18.6	18.4 ✓	
1095	16.7	17.1	16.9 ✓	
1096	17.6	17.9	17.7 ✓	

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1097	18.5	18.4	18.4 ✓		1766	18.8	18.8	18.8 ✓	
1098	18.1	18.2	18.1 ✓		~~1767~~	~~17.8~~	n g		neb?
1099	18.6	18.7	18.6 ✓		1768	18.7	18.7	18.7 ✓	
1100	17.7	18.0	17.9 ✓		1769	18.6	18.7	18.6 ✓	
1101	18.8	18.8	18.8 ✓		1770	18.6	18.7	18.7 ✓	
1102	16.7	17.1	16.9 ✓		1771	18.5	18.7	18.6 ✓	
1103	18.0	18.4	18.2 ✓		1772	18.7	18.6	18.6 ✓	
1104	17.8	18.1	18.0 ✓		1773	18.4	18.8	18.6 ✓	
1105	18.6	18.7	18.7 ✓		1774	18.9	18.8	18.9 ✓	neb?
1106	17.4	17.6	17.5 ✓		1775	19.0	18.8	18.9 ✓	
1107	18.7	18.6	18.6 ✓		Square 24				
1108	18.3	18.7	18.5 ✓		1116	16.9	17.3	17.1 ✓	
1109	17.8	17.9	17.9 ✓		1116	17.9	18.0	18.0 ✓	
1110	16.7 15.9	16.4 16.4	16.3 ✓		1117	17.8	18.0	17.9 ✓	
1111	18.7	18.8	18.7 ✓		1118	17.1	17.3	17.2 ✓	
1112	17.6 16.2	17.2 17.2	17.1 ✓		1119	18.0	17.7	17.9 ✓	
1113	18.8	18.8	18.8 ✓		1120	18.5	18.3	18.4 ✓	neb? ✓
1114	18.5	18.4	18.4 ✓		1121	18.4	18.6	18.5 ✓	
1759	18.9	18.9	18.9 ✓		1122	17.5	17.8	17.6 ✓	
1760	18.4	18.6	18.5 ✓		1123	17.4	17.4	17.4 ✓	
1761	18.4	18.7	18.5 ✓		1124	18.4	18.5	18.5 ✓	
1762	18.6	18.7	18.6 ✓		1125	18.8	18.9	18.8 ✓	neb? ✓
1763	18.9	18.8	18.9 ✓		1126	18.3	18.5	18.4 ✓	
1764	18.7	18.8	18.8 ✓		1127	17.2	17.4	17.3 ✓	
1765	18.8	18.9	18.9 ✓		1128	17.9	17.9	17.9 ✓	neb? ✓

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1129	17.8	17.8	17.8 ✓		1154	16.3	16.7	16.5 ✓	
~~1130~~		double star			1155	18.6	18.6	18.6 ✓	
1131	18.7	18.6	18.7 ✓		1156	18.6 18.4	18.3 17.9	18.3 ✓	
1132	18.7	18.5	18.6 ✓		1157	17.9	17.7	17.8 ✓	
1133	17.2	17.4	17.3 ✓		1158	17.0	17.3	17.2 ✓	
1134	18.9	18.9	18.9 ✓		1159	18 0	17.9	17.9 ✓	
1135	18.8	18.8	18.8 ✓		1160	18.6	18.5	18.6 ✓	
1136	18.2	18.3	18.2 ✓		1161	17.7	18.0	17.8 ✓	
1137	16.9	17.1	17.0 ✓		1162	17.1	17.3	17.2 ✓	
1138	18 5	18.2	18.3 ✓	neb?	1163	17.5	17.6	17.5 ✓	
1139	18.3	18.0	18.2 ✓		1164	15 5	15.6	15.6 ✓	
1140	18.7	18.7	18.7 ✓		1165	18.8	18.8	18.8 ✓	
1141	18.7	18.6	18.7 ✓		1166	16.8	17.1	17.0 ✓	
1142	17 7	17.7	17.7 ✓		1167	17.3	17.6	17.5 ✓	
~~1143~~	~~18.8~~	. ng		neb? ✓	1168	16.5	17.0	16.8 ✓	
~~1144~~	~~18.9~~	~~18.8~~	~~18.8~~	FSW neb?	1169	18.8 18.6	18.7 18.0	18.5 ✓	
1145	18.8	18.7	18.7 ✓	neb?	1170	18.7	18.9	18.8 ✓	
1146	18.6	18.5	18.6 ✓		1171	16.6	17.1	16.9 ✓	
1147	18.1 18.1	17.8 17.6	17.9 ✓	neb? ✓	1172	18.5	18.7	18.6 ✓	
1148	18.2	18.6	18.4 ✓		1173	18.7	18.9	18 8 ✓	
1149	18.8	18.8	18.8 ✓		1174	17.1	17.6	17.4 ✓	
1150	17.5	17.2	17.4 ✓		1175	17.1 16.1	16.8 16.8	16.7 ✓	
1151	18.8	18 8	18.8 ✓		1176	18.8	18.7	18.7 ✓	
1152	17.8	17.9	17.9 ✓		1177	18.7	18.8	18 8 ✓	neb? ✓
1153	17.4	17.3	17.4 ✓		1878	18.6	18.1	18.3 ✓	neb? ✓

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Ic16	]15.0	]15.0	]15.0		1186	18.4	18.6	18.5	
Ic20	]15.0	]15.0	]15.0		1187	18.6	18.7	18.7	
1176	18.6	18.7	18.6		1188	18.4	18.6	18.5	
1177	18.7	18.7	18.7		1189	18.6	18.7	18.6	
1178	18.8	18.5	18.7		1190	16.7	16.8	16.7	
1179	18.7	18.6	18.6		1191	18.5	18.7	18.6	
1180	18.6	18.6	18.6		1192	18.6	18.8	18.7	neb?
1181	18.7	18.6	18.7		1193	18.6	18.7	18.6	
1182	18.6	18.8	18.7		1194	17.1	17.3	17.2	
1183	18.5	18.7	18.6		1195	18.4	18.6	18.5	
1184	18.8	18.9	18.8		1196	18.0	18.2	18.1	
1185	18.7	18.7	18.7		1197	17.0	~~17.5~~ 17.7	17.4	
1186	18.8	18.7	18.7		1198	17.4	17.7	17.5	
1187	18.6	18.6	18.6		1199	18.5	18.1	18.3	neb?
1188	18.8	18.6	18.7		1200	17.3	17.5	17.4	
1189	17.5	17.6	17.6		1201	18.1	~~18.6~~ 18.8	18.5	
1190	18.5	18.8	18.7		1202	18.2	18.6	18.4	
Square 25					1203	18.6	18.7	18.6	
1179	16.4	16.9	16.6		1204	15.2	15.6	15.4	
1180	18.6	18.8	18.7		1205	17.8	~~17.2~~ 17.1	17.4	
1181	17.1	17.2	17.1		1206	16.1	16.6	16.3	
1182	16.5	16.6	16.6		1207	18.0	18.5	18.2	
1183	17.5	17.6	17.5		1208	17.9	18.2	18.1	
1184	18.1	18.5	18.3		1209	]15.0	]15.0	]15.0	Variable
1185	17.9	18.2	18.0		1210	17.7	~~18.6~~ 18.4	18.1	

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1211	17.6	18.0	17.8 ✓		1802	18.6	18.7	18.7 ✓	
1212	18.4	18.7	18.6 ✓		1803	17.9	18.0	18.0 ✓	
1213	16.2	~~16.8~~ 16.9	16.6 ✓		1804	18.2	18.6	18.4 ✓	
1214	17.5	~~18.0~~ 18.1	17.8 ✓		Out East				
1215	17.3	17.8	17.5 ✓		1223	18.0 17.2	18.0 18.0	17.8	
1216	17.4	17.9	17.6 ✓		1224 ×	17.9 17.1	18.0 18.0	17.7	
1217	18.6	18.8	18.7 ✓		1225	]15.0	]15.0	]15.0	
1218	16.6	17.1	16.9 ✓		1226	]15.0	]15.0	]15.0	
1219	17.3	17.7	17.5 ✓		1227	16.2	16.6	16.4	
1220	16.5	~~17.1~~ 17.1	16.8 ✓		1228	]15.0	]15.0	]15.0	
1221	15.8	15.6	15.7 ✓		1229	17.4	18.0	17.7	neb? ✓
1222	18.0 18.0	18.7 18.8	18.5 ✓		1230	17.0	17.6	17.3	
N154	]15.0	]15.0	]15.0 ✓		1231	16.9	17.4	17.1	
Ic23	]15.0	]15.0	]15.0 ✓		1232	16.2	16.7	16.4	
1791	18.6	18.5	18.6 ✓		1233	15.8	16.3	16.1	
1792	18.4	18.6	18.5 ✓		1234	18.2	18.5	18.4	
1793	18.5	18.6	18.5 ✓		1235	15.5	16.1	15.8	
1794	17.5	17.6	17.6 ✓		1236 ×	17.6 17.1	18.1 18.5	17.8	
1795	17.8	18.0	17.9 ✓		1237	17.0	17.3	17.1	
1796	18.7	18.8	18.7 ✓		1238	17.4	17.6	17.5	
1797	18.6	18.7	18.6 ✓		1239	17.5	17.9	17.7	neb? ✓
~~1798~~	~~18.4~~	x g		neb?	1240	16.7	16.9	16.8	
1799	17.8	18.3	18.1 ✓		1241	17.7	18.1	17.9	
1800	17.6 16.5	17.0 17.3	17.1 ✓		1242	18.2	18.8	18.5	neb? ✓
1801	18.7	18.8	18.8 ✓		1243	17.6	18.1	17.8	

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1244	17.1	17.5	17.3	neb?	1269	15.4	15.5	15.4	
1245	18.3	18.5	18.4		1270	15.7	15.7	15.7	
1246	17.9	18.0	17.9		1271	15.6	15.7	15.7	FSB
1247	17.6	17.8	17.7		1272 ×	17.7 16.4	17.6 17.3	17.3	
1248	16.8	17.1	17.0		1273	18.1	18.7	18.4	
1249	16.4	16.9	16.7		1274 •	17.6 16.3	17.5 17.1	17.1	
1250	16.3	16.4	16.4		1275	16.9	17.4	17.2	
1251 ×	18.3 17.3	18.0 18.5	18.0		1276	15.6	15.5	15.5	
1252	17.2	17.5	17.3		1277	17.9	18.1	18.0	
1253	17.2	17.3	17.2		1278	16.4	15.7	16.0	
1254	18.6	18.7	18.7		1279	17.1	17.3	17.2	
1255	18.0	17.6	17.8	neb?	1280	18.4	18.6	18.5	neb?
1256	18.1	18.5	18.3		1281	17.9	18.5	18.2	
1257	18.5	18.5	18.5		1282	16.1	15.6	15.8	
1258	18.8	18.1	18.4		1283	18.5	18.5	18.5	
1259	15.6	15.7	15.6		1284	17.9	17.8	17.9	
1260	17.6	18.2	17.9		1285	18.5	18.0	18.2	
1261	17.8	18.3	18.1		1286	15.9	16.0	15.9	
1262	17.6	17.6	17.6		1287	16.9	17.6	17.3	
1263	17.4	17.7	17.6		1288	16.0	15.6	15.8	
1264	17.6	17.7	17.7		1289	15.9	15.8	15.8	
1265	16.1	16.2	16.2		1290	15.1	15.4	15.3	
1266	15.5	15.6	15.5		1291 ×	18.4 17.8	18.6 18.8	18.4	
1267	18.5	18.8	18.6		1292	17.2	17.0	17.1	
1268	17.8	17.9	17.9		1293	18.2	18.7	18.4	

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1294		17.4	17.2	17.3		1814	18.6	18.5	18.6		
1295		17.5	17.7	17.6		1815	x 18.4 17.8	18.2 18.7	18.3		
1296		15.5	15.3	15.4		1816	17.4	18.0	17.7		
1297		18.2	18.8	18.5		1817	17.2	17.6	17.4		
1298		18.1	18.5	18.3		1818	18.3	18.2	18.3		
1299		16.5	16.8	16.7		1819	18.5	18.8	18.6		
1300		17.6	17.8	17.7		1820	18.8	18.7	18.7	neb: ✓	
1301		16.4	16.9	16.6		1821	17.8	18.0	17.9		
1302		17.9	18.5	18.2		1822	18.0	18.0	18.0		
1303		17.2	17.1	17.1		1823	17.7	17.7	17.7		
1304		16.8	17.1	17.0		1824	18.0	18.3	18.2		
1305		17.3	17.6	17.5		1825	18.1	18.6	18.3		
1393		16.6	17.3	17.0		1826	18.5	18.7	18.6		
1394		16.5	16.9	16.7							
1397		16.6:	17.1	16.9		1827	18.0	18.6	18.3		
1395	x	17.3 16.2	17.4 17.3	17.1							
N166		]15.0	]15.0	]15.0 ✓		1828	18.3	18.5	18.4		
1396		17.1:	17.4	17.2							
Ic 36		]15.0	]15.0	]15.0 ✓		Out West					
1805		18.2	18.7	18.5		1339	17.3	17.7	17.5	neb?	
1806		18.0	18.2	18.1		1340	x 17.6 16.8	17.4 17.7	17.4	* att ✓	
1807		17.8	18.2	18.0		1341	18.3	18.9	18.6		
1808	x	18.6 17.9	18.7 18.8	18.5		1342	x 18.0 17.4	18.1 18.5	18.0		
1809		17.9	18.1	18.0		1343	17.0	17.6	17.3		
1810		18.5	18.7	18.6		1344	x 18.1 17.3	18.5 18.2	18.0		
1811		17.5	17.9	17.7		1345	18.4	18.7	18.6		
1812		18.4	17.7	18.0		1346	16.7	17.3	17.0		
1813		18.6	18.7	18.7		1347	18.0	17.9	17.9		

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1348	18.8	18.9	18.8		1373	16.3	15.8	16.1	
1349	18.3	18.4	18.3		1374	18.2	18.6	18.4	
1350	17.6	18.0	17.8		1375	15.6	15.6	15.6	
1351	17.7	17.9	17.8		1376	17.7 17.0	17.7 17.8	17.6	
1352	18.7	18.9	18.8		1377	16.2	16.4	16.3	
1353	18.0	18.7	18.4		1378	16.0	15.8	15.9	
1354	18.1	18.1	18.1		1379	15.8	15.8	15.8	
1355	17.3	17.2	17.3		1380	J15.0	15.2 15.2	15.2	F S B.
1356	17.7	18.0	17.8		1381	15.1	15.6	15.4	
1357	18.1	18.5	18.3		1382	15.4	15.7	15.5	
1358	18.6	18.8	18.7	neb?	1383 x	17.5 ~~16.8~~	17.7	17.6	
1359	16.3	15.8	16.1		1384	16.6	16.8	16.7	
1360	16.0	15.8	15.9		1385	17.6	17.8	17.7	
1361	15.9	15.6 15.6	15.6		N 34	J15.0	J15.0	J15.0	
1362	18.6	18.6	18.6		N 35?	16.3	15.8	16.0	
1363	18.4	18.2	18.3		IC 2	15.5	15.6	15.5	* att
1364	18.7	18.6	18.6		1829 x	18.2 17.8	18.8 18.7	18.4	neb?
1365	18.8	18.7	18.7	neb?	1830	17.1	17.8	17.4	
1366	18.7	18.7	18.7		1831	16.6	17.3	16.9	
1367	16.9	17.1	17.0	pair	1832	17.5	18.2	17.8	neb?
1368	17.2	16.7	17.0	* between them	1833	18.6	18.7	18.7	
1369	17.0	17.3	17.1		1834	18.5	18.9	18.7	
1370	15.8	15.7	15.8		1835	18.2	18.7	18.4	
1371	17.5	17.5	17.5		1836	18.5	18.7	18.6	
~~1372~~	~~15.5~~	~~15.0~~		double * beside * att FWW neb?	1837	18.5	18.9	18.7	

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1838	18.4	18.6	18.5		1387	17.6	17.6	17.6		132
1839	17.7	17.3	17.5		1388	17.8	17.9	17.9		132
1840	18.7	18.8	18.8	neb?	1389	18.2	18.6	18.4		132
1841	17.7	17.7	17.7		1390	18.1	18.8	18.4		132
1842	16.8	16.4	16.6		1391	17.1	17.3	17.2		13
1843	17.4	17.7	17.5		1392	18.1	18.2	18.1		13
1844	18.8	18.8	18.8		Out South					13
1845	18.6	18.7	18.6		1306	17.2	17.5	17.4		13
1846	18.7	18.8	18.7	neb?	1307	18.0	18.5	18.3		13
1847	17.6	17.7	17.6		1308	17.4	18.1	17.8		13
1848	17.4	17.7	17.5		1309	17.3	17.3	17.3		13
1849	18.4	18.8	18.6		1310 x	17.0 / 18.2	18.2 / 17.7	17.8		13
1850	18.2	18.5	18.4		1311 x	16.8 / 17.9	17.7 / 17.6	17.5		13
1851	18.8	18.8	18.8		1312 x	17.1 / 18.2	18.6 / 18.2	18.0		13
1852	18.7	18.6	18.7		1313 x	17.5 / 18.4	18.5 / 18.3	18.2		13
1853	18.7	18.7	18.7		1314	15.4	15.6	15.5		18
1854	18.9	18.8	18.8		1315	16.0	16.7	16.3		
1855	18.7	18.9	18.8		1316	18.1	18.8	18.4	neb?	
1856	17.2	16.9	17.1		1317	17.2	17.5	17.3		
1857	18.7	18.9	18.8	neb?	1318	17.3	17.6	17.4		
1858	17.7	17.6	17.6	neb?	1319	17.4	17.6	17.5		
1859	18.1	18.7	18.4		1320	16.6	15.6	15.8		
1860	18.3	18.7	18.5		1321 x	17.9 / 18.4	18.8 / 18.7	18.5		
Out North					1322	18.3	18.9	18.6		
1386	17.4	17.8	17.6		1323	17.7	17.8	17.7		

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1324	15.8	15.8	15.8	} pair
1324a	16.1	15.8	16.0	
1325	18.4	18.8	18.6	
1326	15,9	16.6	16.3	{1326 2 5} pair
1327	16.7	17.1	16.9	* att
1328	18.4	18.8	18.6	
1329	18.7	18.9	18.8	
1330	18.8	18.8	18.8	
1331	18,3	18.7	18.5	neb?
1332	18.1	18.6	18.4	neb?
1333	18.4	18.8	18.6	neb?
1334	17.3 16.6	17.4 17.4	17.2	
1335	16.3	16.7	16.5	
1336	17.2	17.5	17.3	
1337	17.6	17.8	17.7	
1338	16.7	17.0	16.8	
1861	18.5	18.5	18.5	

Between 99 10% of dif 10.5m

b?

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1993phae.proj.23728

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