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HARVARD UNIVERSITY
Physics B

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Harvard Co-operative Society

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HARVARD COÖPERATIVE SOCIETY

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COÖP PURCHASES PAY DIVIDENDS

24.11.5

INDEX

P	Plate			
5	A20433	mem.	C.D.B.	F.W.W
57	A20280	"	"	"
87	A20503	"	"	"

A 20433

Counted stars have circles

(14.6)

15.0

(15.2)

15.4

15.6

(15.9)
~~(16.0)~~

16.0 changed to 15.9

16.1

17.5 " " 17.4

(16.4)

17.9 " " 18.0

(16.7)

(17.1)

Counted by R.A.P

(17.5)⁴

checked by C.D.B

17.6

Interpolations made by F.W.W.

17.8

(18.0)
~~(17.9)~~

(18.2)

A 20433

5

2 20 -20

Square 1								
	<u>C.O.B.</u>	<u>F.W.W.</u>	<u>MEAN</u>					
1	17.7	17.0	17.4 [✓]	22	17.4	17.4	17.4 [✓]	
2	17.8	17.8	17.8 [✓]	23	17.6	17.3	17.4 [✓]	
3	17.0	16.3	16.7 [✓]	} Pair [✓]	24	17.9	17.9	17.9 [✓]
4	16.8	16.8	16.7 [✓]		25	18.0	18.1	18.1 [✓]
	17.1	16.2		26	18.1	18.0	18.0 [✓]	
5	17.6	17.8	17.7 [✓]	27	17.7	18.0	17.9 [✓]	
6	14.5	16.6	16.6 [✓]	} Spiral on Edge [✓]	28	16.8	15.8	15.9 [✓]
	16.8	16.7			28	16.2	15.4	
7	16.9	16.8	16.9 [✓]	29	17.6	17.7	17.6 [✓]	
	17.3	16.5						
8	17.9	17.6	17.8 [✓]	Square 2				
9	17.7	17.5	17.6 [✓]	30	17.5	17.6	17.5 [✓]	
10	17.9	17.8	17.9 [✓]	31	17.3	17.3	17.3 [✓]	
11	17.2	17.0	17.1 [✓]	32	17.9	17.8	17.8 [✓]	
12	17.9	17.9	17.9 [✓]	*NF [✓] 33	17.6	17.5	17.5 [✓]	
13	17.9	17.6	17.8 [✓]	34	17.3	17.5	17.3 [✓]	
					17.4	16.9		
14	17.7	17.9	17.8 [✓]	35	17.8	17.9	17.8 [✓]	
15	17.6	17.7	17.7 [✓]	} neb? [✓] *NP [✓]	36	17.7	17.8	17.7 [✓]
16	17.7	17.6	17.6 [✓]		37	17.6	17.7	17.6 [✓]
17	17.9	18.0	17.9 [✓]	38	17.9	17.6	17.7 [✓]	
18	17.0	16.8	17.0 [✓]	39	18.1	17.9	17.9 [✓]	
	17.1	17.1			18.1	17.6		
19	17.8	17.1	17.4 [✓]	40	17.6	17.2	17.4 [✓]	
20	17.2	16.8	17.0 [✓]	41	17.7	17.5	17.6 [✓]	
21	17.7	17.8	17.7 [✓]					

neb?[✓]
*NP[✓]neb:[✓]

6

42	17.2 17.4	16.8 16.9	17.1 ✓		67	17.9	17.8	17.9 ✓	
43	16.9	16.8	16.8 ✓		68	17.8	17.8	17.8 ✓	
44	17.9				69	17.9	17.8	17.8 ✓	
45	17.6 17.5	17.4 17.0	17.4 ✓		70	215.0	215.0	215.0 ✓	Spiral
46	18.2	18.1	18.1 ✓		700	16.1	15.7	15.9 ✓	
47	17.2	17.2	17.2 ✓		71	17.5	17.6	17.5 ✓	
48	17.9	17.8	17.8 ✓		72	18.2	17.8	18.0 ✓	
49	18.0	17.8	17.9 ✓		73	16.3 16.5	15.9 15.2	16.0 ✓	
50	17.4	17.6	17.5	FW on neb?	74	17.1 17.5	17.5 17.0	17.3 ✓	
51	17.8	18.0	17.9 ✓		75	17.9	17.9	17.9 ✓	
52	17.5	17.6	17.5 ✓		76	16.8 17.2	16.9 16.5	16.9 ✓	
53	17.9	17.9	17.9 ✓		77	17.4 17.7	17.6 17.2	17.5 ✓	
54	17.8	17.8	17.8 ✓		78	17.6	17.5	17.6 ✓	
55	18.0	17.6	17.8 ✓		79	16.9 17.3	16.6 16.7	16.9 ✓	
56	18.1	17.7	17.9 ✓		80	17.4	17.0	17.2 ✓	
57	18.2	18.1	18.2 ✓		81	17.6			neb? *NP
58	17.6	17.5	17.5 ✓		82	17.6	17.4	17.5 ✓	
59	17.5	17.6	17.6 ✓		83	17.9	17.8	17.9 ✓	
60	18.0	17.9	17.9 ✓		84	17.7	17.8	17.8 ✓	
61	16.7	16.5	16.6 ✓		85	17.8	17.9	17.9 ✓	
62	18.1	18.1	18.1 ✓		86	15.4 15.1	215.0 215.0	15.0 ✓	checked on H17792
63	18.0			neb?	87	16.8 16.9	16.6 16.3	16.7 ✓	Spiral on edge *NP
64	16.2	15.9	16.0 ✓		88	18.0	18.1	18.0 ✓	
65	16.5 16.8	16.7 16.4	16.6 ✓		89	17.7	17.6	17.7 ✓	
66	18.1	17.9	18.0 ✓		90	16.6	16.2	16.4 ✓	

41	18.3	18.0		red?	115	16.8	16.4	16.6 [✓]	
92	18.2	18.1	18.2 [✓]		116	17.1	16.8	16.9 [✓]	
93	18.1	18.2	18.1 [✓]		117	17.0	16.7	16.8 [✓]	
94	17.4	17.2	17.3 [✓]		118	17.6	17.8	17.7 [✓]	
95	18.2	17.9	18.0 [✓]		119	18.1	18.0	18.1 [✓]	
96	17.6	17.6	17.6 [✓]		120	17.9	17.9	17.9 [✓]	
97	17.6	17.8	17.7 [✓]		121	17.8	17.8	17.8 [✓]	
98	17.7	17.7	17.7 [✓]		122	17.2 17.1	16.7 16.6	16.9 [✓]	
99	17.6	17.5	17.5 [✓]		123	17.0	16.6	16.8 [✓]	
100	17.9	17.8	17.8 [✓]		124	18.2	18.1	18.2 [✓]	
101	17.4 17.4	17.0 16.3	17.0 [✓]		125	16.6 16.3	16.0 15.8	16.2 [✓]	
102	17.8	17.6	17.7 [✓]		126	17.9	18.0	17.9 [✓]	
103	17.9			red?	127	17.7	17.9	17.8 [✓]	
104	16.2	15.8	16.0 [✓]		128	16.6	16.4	16.5 [✓]	
105	17.6	17.6	17.6 [✓]		129	16.1	15.8	16.0 [✓]	
106	18.0	18.2	18.1 [✓]		130	18.0	18.1	18.1 [✓]	
107	17.7	17.5	17.6 [✓]	*SP	131	17.8	18.0	17.9 [✓]	
108	17.6	17.5	17.5 [✓]		132	17.3 17.5	17.5 17.6	17.5 [✓]	bt.*SP
Square 3					133	17.8	17.9	17.8 [✓]	
109	17.9	18.0	18.0 [✓]		134	18.0 18.1	17.5 17.6	17.8 [✓]	
110	16.7 16.9	15.9 15.8	16.3 [✓]	bt.*F	135	16.6	16.5	16.5 [✓]	
111	17.8	17.8	17.8 [✓]		136	18.3	17.9	18.1 [✓]	
112	16.4 16.7	15.9 15.9	16.2 [✓]		137	16.9	16.6	16.8 [✓]	Spiral on edge
113	17.8	17.8	17.8 [✓]		138	17.5	17.6	17.5 [✓]	
114	17.6	17.6	17.6 [✓]		139	17.7	17.7	17.7 [✓]	

140	17.9	17.9	17.9 [✓]	165	17.6	17.5	17.6 [✓]
141	17.4	17.6	17.5 [✓]	166	18.0	17.6	17.8 [✓]
142	16.8	16.9	16.8 [✓]	167	15.2 15.0	15.0 J15.0	15.0 [✓]
143	17.8	17.6	17.7 [✓]	168	17.7	17.8	17.7 [✓]
144	16.8 17.0	16.5 16.5	16.7 [✓]	169	18.3	18.0	18.2 [✓]
145	17.5 17.6	17.4 16.9	17.4 [✓]	170	17.7	17.6	17.7 [✓]
146	17.6	17.6	17.6 [✓]	171	17.9	17.7	17.8 [✓]
147	17.7	17.5	17.6 [✓]	172	17.8	17.7	17.8 [✓]
148	17.6	17.7	17.7 [✓]	173	18.2	18.1	18.1 [✓]
149	18.2	18.0	18.1 [✓]	174	18.2	18.1	18.2 [✓]
150	17.5	17.6	17.6 [✓]	175	17.9	17.8	17.9 [✓]
151	17.7 17.8	17.6 17.3	17.6 [✓]	176	17.0	17.2	17.1 [✓]
152	18.1	17.9	18.0 [✓]	177	17.8	17.7	17.8 [✓]
153	18.1	18.1	18.1 [✓]	178	17.9	17.8	17.9 [✓]
154	18.2	17.9	18.1 [✓]	179	16.2 16.2	15.8 15.6	16.0 [✓]
155	18.0	18.0	18.0 [✓]	180	17.6	17.2	17.4 [✓]
156	18.0	17.9	18.0 [✓]	181	15.9	15.6	15.8 [✓]
157	18.1	17.8	17.9 [✓]	182	17.8	17.7	17.7 [✓]
158	17.2 17.5	16.7 16.7	17.0 [✓]	*NF 183	17.7	17.6	17.6 [✓]
159	18.0	18.0	18.0 [✓]	184	17.4	17.5	17.5 [✓]
160	17.9	17.8	17.8 [✓]	185	16.9	16.6	
161	18.2	18.0	18.1 [✓]	186	17.3 17.5	17.0 16.9	17.2 [✓]
162	17.5	17.1	17.3 [✓]	187	18.2	18.2	18.2 [✓]
163	17.7	17.3	17.5 [✓]	188	17.6	17.7	17.6 [✓]
164	17.6	17.7	17.7 [✓]				

} Pair

} not

Square 4

					213	16.9 17.6	17.1 16.9	17.1 [✓]	
189	16.2 16.4	15.9 15.6	16.0 [✓]		214	17.9	17.7	17.8 [✓]	
190	17.3	17.3	17.3 [✓]		215	18.1	18.0	18.1 [✓]	
191	17.4	17.2	17.3 [✓]		216	18.1	17.8	18.0 [✓]	
192	16.2	15.8	16.0 [✓]		217	17.4	17.3	17.3 [✓]	(FSB)
193	17.8	17.6	17.7 [✓]		218	15.4 15.9	15.3 15.2	15.4 [✓]	
194	16.5 16.7	16.3 16.2	16.4 [✓]	} Pair [✓]	219	17.7	18.1	17.9 [✓]	
195	17.9	17.8	17.9 [✓]		220	17.9	18.1	18.0 [✓]	
196	17.2	17.3	17.2 [✓]	196, 195, 199 are triplet	221	17.6	17.6	17.6 [✓]	
197	17.5	17.2	17.3 [✓]		222	17.5	17.6	17.6 [✓]	
198	17.4	17.2	17.3 [✓]	198	223	17.7	17.7	17.7 [✓]	
199	18.0	18.1	18.0 [✓]	199	224	17.5	17.8	17.7 [✓]	
200	17.5	17.6	17.5 [✓]		225	17.9	18.1	18.0 [✓]	
201	17.3 17.2	17.0 16.7	17.0 [✓]		226	16.3 16.7	15.9 16.1	16.3 [✓]	
202	17.8	17.8	17.8 [✓]		227	17.6	17.6	17.6 [✓]	
203	17.9	17.7	17.8 [✓]		228	18.1	18.2	18.2 [✓]	
204	16.6 16.8	15.2 15.2	16.0 [✓]		229	17.6	17.7	17.7 [✓]	
205	17.8	17.4	17.6 [✓]		230	18.1	18.1	18.1 [✓]	
206	18.2	18.0	18.1 [✓]		231	16.5	blank		
207	16.2	16.0	16.1 [✓]		232	16.4 16.5	15.9 15.9	16.2 [✓]	
208	16.9 17.0	16.3 16.4	16.6 [✓]		233	17.2 17.5	17.1 16.8	17.2 [✓]	*NP [✓]
209	17.7	17.8	17.8 [✓]		234	17.8	17.5	17.6 [✓]	
210	16.7 16.9	16.1 16.1	16.5 [✓]	*SP	235	17.9	17.8	17.9 [✓]	
211	17.8	17.8	17.8 [✓]		236	17.6	17.5	17.6 [✓]	
212	17.1	16.7	16.9 [✓]		237	18.1	17.9	18.0 [✓]	

238	17.8	17.7	17.7 [✓]		263	18.2 17.6	17.9 18.1	18.0 [✓]	
239	17.7	17.7	17.7 [✓]		264	17.7	17.7	17.7 [✓]	
240	17.4	17.0	17.2 [✓]		265	17.9	17.7	17.8 [✓]	
241	18.1	18.0	18.0 [✓]		266	17.5	17.7	17.6 [✓]	
242	17.6 17.5	17.0 16.7	17.2 [✓]	Spinal on Edge	267	17.8	17.9	17.9 [✓]	
243	17.9	17.9	17.9 [✓]		268	17.7	17.6	17.6 [✓]	
244	18.2	18.0	18.1 [✓]		269	16.9	17.1	17.0 [✓]	
245	18.0	18.0	18.0 [✓]		270	17.6	17.8	17.7 [✓]	
246	18.1	17.9	18.0 [✓]	* SF [✓]	271	18.0	18.0	18.0 [✓]	
247	17.9	18.0	17.9 [✓]	* SF [✓]	272	17.9	17.6	17.7 [✓]	
248	17.8	17.7	17.8 [✓]		273	17.8 18.8	17.8	17.8 [✓]	
249	18.1	17.9	18.0 [✓]		274	17.9	18.0	18.0 [✓]	
250	16.6	16.4	16.5 [✓]		275	15.3 15.5	15.2 15.0	15.3 [✓]	
251	18.2	18.1	18.1 [✓]		276	17.5	17.7	17.6 [✓]	
252	17.8	17.7	17.8 [✓]		277	17.3	17.5	17.4 [✓]	
253	18.0	18.0	18.0 [✓]		278	18.1	17.9	18.0 [✓]	F.W.W. ref?
254	18.0	17.8	17.9 [✓]		279	17.9	17.7	17.8 [✓]	
255	17.9	17.8	17.9 [✓]		280	17.7	17.6	17.7 [✓]	
256	17.8	17.9	17.8 [✓]		281	18.2	18.2	18.2 [✓]	
257	17.7	17.7	17.7 [✓]		282	18.1	17.8	18.0 [✓]	
258	17.2 17.1	16.7 16.6	16.9 [✓]		283	16.9	16.5	16.7 [✓]	
259	18.0	18.0	18.0 [✓]		284	16.6	16.3	16.5 [✓]	
260	18.1	18.1	18.1 [✓]		285	17.9	17.7	17.8 [✓]	
261	18.2	18.1	18.1 [✓]		286	17.2	17.2	17.2 [✓]	
262	17.9	18.2	18.0 [✓]		287	17.7	17.7	17.7 [✓]	

288	17.4	17.5	17.4 [✓]		Square 5			
289	17.1	17.2	17.1 [✓]		313	17.1	17.2	17.1 [✓]
290	17.6	17.6	17.7 [✓]					
	17.7	17.7	17.7 [✓]		314	17.0	17.2	17.1 [✓]
291	15.2	15.0	15.1 [✓]	} pair	315	17.5	17.4	17.4 [✓]
292	17.7	17.6	17.6 [✓]		316	17.5	17.7	17.6 [✓]
293	18.2	18.1	18.1 [✓]		317	17.7	17.5	
294	17.3	17.2	17.2 [✓]		318	16.7	16.0	16.3 16.9 [✓]
295	17.6	17.6	17.6 [✓]		319	17.3	17.4	17.4 [✓]
296	17.2	16.8	17.0 [✓]		320	17.4	17.7	17.5 [✓]
297	17.0	16.7	16.9 [✓]		321	17.6	17.5	17.6 [✓]
298	16.1	15.8	16.0 [✓]		322	16.9	16.2	16.5 [✓]
299	17.8	17.7	17.7 [✓]		323	17.8	17.6	17.7 [✓]
300	17.6	17.5	17.6 [✓]		324	17.5	17.7	17.6 [✓]
301	14.9	16.5			325	17.0	16.7	16.8 [✓]
	17.2	16.7	16.8 [✓]					
302	15.9	15.6			326	17.0	16.3	16.7 [✓]
	15.9	15.1	15.6 [✓]					*NP [✓]
303	17.9	17.8	17.9 [✓]		327	17.7	17.9	17.8 [✓]
304	17.7	17.8	17.8 [✓]		328	17.4	17.5	17.4 [✓]
305	17.3	16.9	17.1 [✓]		329	17.8	17.9	17.9 [✓]
306	17.4	16.7	17.0 [✓]	*NP [✓]	330	17.8	18.0	17.9 [✓]
307	18.1	17.7	17.9 [✓]		331	17.6	17.6	17.6 [✓]
308	17.9	17.6	17.7 [✓]		332	17.5	17.6	17.6 [✓]
309	17.4	17.2	17.3 [✓]	*NP [✓]	333	17.4	17.7	17.5 [✓]
310	17.7	17.5	17.6 [✓]		334	17.5	17.6	17.6 [✓]
311	17.9	17.8	17.8 [✓]		335	17.7	17.9	17.8 [✓]
312	17.5	17.7	17.6 [✓]		336	17.4	17.9	17.7 [✓]

337	16.9	17.5	17.2 [✓]
338	18.0	17.9	18.0 [✓]
339	16.2	16.1	16.1 [✓]
340	17.1	16.8	17.0 [✓]
341	16.5	16.2	16.3 [✓]
342	17.1	17.1	17.1 [✓]
343	17.0	16.7	16.8 [✓]
344	17.6	17.9	17.7 [✓]
345	17.9	18.0	18.0 [✓]
346	16.8 16.7	16.9 16.8	16.8 [✓]
347	18.1	18.1	18.1 [✓]
348	17.9	18.0	17.9 [✓]
349	17.7	17.9	17.8 [✓]
350	17.9	18.0	18.0 [✓]
351	18.0	17.9	17.9 [✓]
352	18.1	17.9	18.0 [✓]
353	18.2	18.2	18.2 [✓]
354	18.0	17.8	17.9 [✓]
355	17.5	16.8	17.2 [✓]
356	17.6	17.0	17.3 [✓]
357	17.8	17.9	17.9 [✓]
358	17.7	17.8	17.8 [✓]
359	17.1	16.8	16.9 [✓]
360	18.1	18.0	18.0 [✓]
361	18.0	17.9	17.9 [✓]

(FSD)

362	17.6	17.9	17.8 [✓]
363	17.5	17.6	17.5 [✓]
364	15.7	15.7	15.7 [✓]
365	16.6 16.9	16.2 16.1	16.4 [✓]
366	17.9	17.9	17.9 [✓]
367	16.8	16.4	16.6 [✓]
368	17.3	17.0	17.2 [✓]
369	17.6	18.0	17.8 [✓]
370	17.5	17.8	17.7 [✓]
371	17.6	17.7	17.6 [✓]
372	17.3	17.5	17.4 [✓]
Square 6			
373	17.5	17.5	17.5 [✓]
374	16.6 16.8	16.3 16.0	16.4 [✓]
375	17.4 17.6	17.0 17.1	17.3 [✓]
376	18.0	17.9	17.9 [✓]
377	18.0	17.9	18.0 [✓]
378	17.4	17.1	17.3 [✓]
379	17.0	16.8	16.9 [✓]
380	17.4	17.0	17.2 [✓]
381	17.8	17.7	17.8 [✓]
382	17.9	17.8	17.9 [✓]
383	18.0	17.9	18.0 [✓]
384	17.7	17.7	17.7 [✓]
385	18.0	17.8	17.9 [✓]

net?

} Pair[✓]

385	17.8	17.7	17.7 [✓]		411	17.5	17.3	17.4 [✓]
387	17.0 17.2	16.6 16.5	16.8 [✓]	*SF [✓]	412	17.9	17.9	17.9 [✓]
388	17.8 17.7	17.6 17.9	17.8 [✓]		413	17.6	17.8	17.7 [✓]
389	17.8	17.8	17.8 [✓]		414	17.3	17.3	17.3 [✓]
390	17.7	18.0	17.8 [✓]		415	17.7	17.7	17.7 [✓]
391	16.8	16.7	16.7 [✓]		416	17.8	17.7	17.7 [✓]
392	17.2	17.0	17.1 [✓]		417	17.8	17.6	17.7 [✓]
393	18.1	18.1	18.1 [✓]		418	18.0	18.0	18.0 [✓]
394	17.6	17.9	17.8 [✓]		419	17.2	17.1	17.2 [✓]
395	17.7	18.0	17.9 [✓]		420	17.3	17.0	17.1 [✓]
396	16.9	17.1	17.0 [✓]		421	17.7	17.6	17.6 [✓]
397	17.6	17.6	17.6 [✓]		422	18.0	17.9	17.9 [✓]
398	17.5	17.3	17.4 [✓]		Square 7			
399	15.0	15.0	15.0 [✓]		423	17.4	17.6	17.5 [✓]
400	17.7	17.7	17.7 [✓]	} Pair [✓]	424	18.1	17.9	18.0 [✓]
401	17.8	17.7	17.8 [✓]		425	17.2	17.1	17.2 [✓]
402	18.1	18.0	18.1 [✓]		426	17.7	17.6	17.7 [✓]
403	18.0	17.8	17.9 [✓]		427	17.9	18.0	18.0 [✓]
404	17.6	17.4	17.5 [✓]		428	17.6	17.5	17.5 [✓]
405	18.1	18.1	18.1 [✓]		429	18.1	18.2	18.2 [✓]
406	16.9 17.4	16.7 16.7	16.9 [✓]		430	17.5	17.7	17.6 [✓]
407	17.3 17.5	16.7 16.8	17.1 [✓]		431	17.8	17.7	17.7 [✓]
408	17.7	17.5	17.6 [✓]		432	18.2	18.1	18.2 [✓]
409	17.5	17.2	17.4 [✓]		433	18.2	18.3	18.3 [✓]
410	17.0 17.2	16.6 16.6	16.8 [✓]		434	16.9	16.6	16.8 [✓]

435	18.1	18.0	18.1 [✓]	460	17.4	17.4	17.4 [✓]	neb?
436	18.2	18.2	18.2 [✓]	461	17.7	17.7	17.7 [✓]	
437	17.7	17.6	17.6 [✓]	462	18.2	18.1	18.2 [✓]	*SF [✓]
438	17.6	17.8	17.7 [✓]	463	17.9	17.8	17.9 [✓]	
439	17.8	17.9	17.9 [✓]	464	17.8	17.9	17.8 [✓]	
440	17.8	17.7	17.8 [✓]	465	18.0	18.0	18.0 [✓]	
441	16.7	16.4	16.5 [✓]	466	18.0	17.9	17.9 [✓]	
442	18.1	18.0	18.0 [✓]	467	17.7	17.7	17.7 [✓]	*inv. S?
443	17.5	17.4	17.5 [✓]	468	18.0	17.8	17.9 [✓]	
444	18.0	18.0	18.0 [✓]	469	17.9	17.7	17.8 [✓]	
445	16.7	16.5	16.6 [✓]	470	18.0	17.8	17.9 [✓]	
446	17.9 18.0	17.2 17.4	17.6 [✓]	471	18.0	17.8	17.9 [✓]	
447	17.9	17.7	17.8 [✓]	472	17.4	17.7	17.6 [✓]	
448	17.4 17.5	17.4 16.9	17.3 [✓]	473	18.1	17.9	18.0 [✓]	
449	18.0	17.7	17.8 [✓]	474	18.2	17.9	18.1 [✓]	
450	17.6	17.7	17.7 [✓]	475	17.9	17.7	17.8 [✓]	
451	17.7	17.7	17.7 [✓]	476	16.0	15.9	16.0 [✓]	
452	17.5	17.2	17.4 [✓]	477	14.9	15.1	15.0 [✓]	Spiral on Edge
453	16.0 16.1	15.5 15.5	15.8 [✓]	478	17.8	17.7	17.7 [✓]	
454	15.9 16.4	15.8 15.7	15.9 [✓]	479	18.0	17.9	18.0 [✓]	
454a	18.1	18.0	18.1 [✓]	480	18.2	18.0	18.1 [✓]	
455	18.0	17.8	17.9 [✓]	481	17.0	17.0	17.0 [✓]	
456	18.1	17.8	18.0 [✓]	482	17.7	17.7	17.7 [✓]	
457	17.5	17.4	17.5 [✓]	483	17.8	17.6	17.7 [✓]	
458	18.0	17.9	18.0 [✓]	484	18.1	18.1	18.1 [✓]	
459	17.9	17.6	17.7 [✓]	485	14.7	15.0	15.0 [✓]	} Pair

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486	17.7	17.8	17.7 [✓]	511	17.5	17.7	17.6 [✓]
487	17.8	18.0	17.9 [✓]	N 899	115.0	115.0	115.0 [✓]
488	17.6	17.7	17.6 [✓]	I 223	115.0	115.0	115.0 [✓]
489	16.5	16.1	16.3 [✓]	Square 8			
490	18.1	18.0	18.1 [✓]	512	18.0	17.7	17.9 [✓]
491	18.2	18.0	18.1 [✓]	513	17.5	17.6	17.6 [✓]
492	18.1	18.0	18.0 [✓]	514	18.0	17.8	17.9 [✓]
493	18.2	18.0	18.1 [✓]	515	16.8	16.7	16.7 [✓]
494	18.0	17.9	17.9 [✓]	516	17.3	17.2	17.2 [✓]
495	18.0	17.8	17.9 [✓]	517	16.4	16.0	16.2 [✓]
496	18.1	17.9	18.0 [✓]	496 } 499 } [✓] _{Phu} 518	17.0	16.8	16.9 [✓]
497	18.0	17.9	18.0 [✓]	519	18.1	17.8	17.9 [✓]
498	18.0	17.7	17.9 [✓]	520	17.6	17.7	17.6 [✓]
499	17.8	18.0	17.9 [✓]	521	17.2	17.1	17.1 [✓]
500	18.0	18.0	18.0 [✓]	522	17.6	17.5	17.6 [✓]
501	17.5	17.6	17.6 [✓]	523	18.1	18.0	18.1 [✓]
502	17.9	17.7	17.8 [✓]	524	17.3	16.9	17.1 [✓]
503	17.5	17.5	17.5 [✓]	525	18.0	17.9	18.0 [✓]
504	18.2	18.1	18.1 [✓]	526	16.5	16.5	16.5 [✓]
505	18.2	17.9	18.0 [✓]	527	17.5	17.7	17.6 [✓]
506	17.0	16.6	16.8 [✓]	528	17.9	17.6	17.7 [✓]
507	17.7	17.5	17.6 [✓]	529	17.5	17.4	17.4 [✓]
508	17.7	17.7	17.7 [✓]	530	18.1	18.0	18.1 [✓]
509	17.6	17.3	17.5 [✓]	530a	115.0	115.0	115.0 [✓]
510	17.8	17.7	17.8 [✓]	531	18.2	17.9	18.0 [✓]

532	18.1	17.9	18.0 [✓]		557	18.3	18.1	18.2 [✓]	
533	17.8	17.8	17.8 [✓]		558	17.3	17.1	17.2 [✓]	
534	18.2	17.9	18.1 [✓]		559	15.1 +1	15.0	15.1 [✓]	
535	18.0	17.8	17.9 [✓]		560	17.4	17.4	17.4 [✓]	
536	17.9	17.7	17.8 [✓]		561	17.5	17.2	17.2 [✓]	Iron compass with other neb
	16.5	15.9			562	17.1	16.7	16.9 [✓]	
537	16.1	15.6	16.0 [✓]		563	18.1	17.8	18.0 [✓]	
538	17.9	17.8	17.8 [✓]		564	17.3	17.0	17.1 [✓]	
539	17.7	17.6	17.7 [✓]	} Pair [✓]	565	16.9	16.7	16.8 [✓]	
540	18.2	18.1	18.2 [✓]		566	18.1	17.8	18.0 [✓]	
541	16.3	16.0	16.1 [✓]		567	17.0	17.1	17.0 [✓]	
542	16.1	16.2	16.2 [✓]	FSD [✓]	568	16.9	16.8	16.8 [✓]	
543	18.2	18.1	18.1 [✓]		569	17.9	17.7	17.8 [✓]	
544	17.6	17.6	17.6 [✓]		570	17.7	17.7	17.7 [✓]	
545	18.1	17.8	18.0 [✓]		571	17.0	16.7	16.9 [✓]	
546	17.3	17.1	17.2 [✓]		572	17.2	17.2	17.2 [✓]	
547	17.9	17.9	17.9 [✓]		573	15.2 0	15.2	15.2 [✓]	Spiral on edge
548	17.9	17.8	17.9 [✓]		574	17.8	17.9	17.8 [✓]	
549	18.1	18.0	18.0 [✓]		575	17.6	17.7	17.7 [✓]	
550	18.2	18.1	18.1 [✓]		576	18.3	18.1	18.2 [✓]	
551	16.6	16.6	16.6 [✓]		577	17.5	17.4	17.4 [✓]	
552	17.9	17.7	17.8 [✓]		578	18.1	17.9	18.0 [✓]	
553	17.5	17.5	17.5 [✓]		579	17.4	17.4	17.4 [✓]	
554	17.8	17.8	17.8 [✓]		580	18.2	18.1	18.1 [✓]	
555	17.8	17.5	17.6 [✓]	neb [✓]	581	17.4	17.6	17.5 [✓]	
556	215.0	215.0	215.0 [✓]	Spiral on edge [✓]					

power
winds

low
age

582	18.0	18.0	18.0 [✓]
583	16.7	16.7	16.7 [✓]
584	16.8	16.8	16.8 [✓]
585	17.4	17.5	17.4 [✓]
586	17.6	17.5	17.5 [✓]
587	17.5	17.5	17.5 [✓]
588	18.0	17.7	17.8 [✓]
589	17.8	17.8	17.8 [✓]
590	17.9	17.8	17.9 [✓]
591	17.8	17.7	17.8 [✓]
592	18.0	17.7	17.9 [✓]
593	17.8	17.7	17.8 [✓]
594	17.9	17.6	17.7 [✓]
595	18.1	17.9	18.0 [✓]
596	17.9	17.9	17.9 [✓]
597	18.0	18.0	18.0 [✓]
598	18.1	17.9	18.0 [✓]
599	18.0	17.8	17.9 [✓]
600	17.7	17.7	17.7 [✓]
601	17.9	17.6	17.8 [✓]
602	17.0 16.8	16.5 16.1	16.6 [✓]
603	18.0	17.9	17.9 [✓]
604	18.0	17.7	17.8 [✓]
605	18.1	18.0	18.1 [✓]
606	18.1	17.9	18.0 [✓]

607	18.0	17.9	18.0 [✓]
608	16.9	17.0	16.9 [✓]
609	17.9	17.8	17.8 [✓]
N907	215.0	215.0	215.0 [✓]
N908	215.0	215.0	215.0 [✓]
Squaw 9			
610	18.0	17.9	17.9 [✓]
611	17.9	17.9	17.9 [✓]
612	18.2	18.0	18.1 [✓]
613	18.3	18.0	18.2 [✓]
614	18.1	17.9	18.0 [✓]
615	17.3	17.3	17.3 [✓]
616	17.5	17.6	17.5 [✓]
617	17.2	17.1	17.2 [✓]
618	18.0	17.9	17.9 [✓]
619	17.4	17.2	17.3 [✓]
620	17.9	17.7	17.8 [✓]
621	15.0 15.1	215.0 215.0	15.0 [✓]
622	18.0	17.7	17.8 [✓]
623	215.0	215.0	215.0 [✓]
624	18.2	18.1	18.1 [✓]
625	17.9	17.8	17.8 [✓]
626	17.1	17.1	17.1 [✓]
627	17.8	17.7	17.7 [✓]
628	17.5	17.2	17.4 [✓]

629	18.1	17.9	18.0 [✓]		654	18.0	17.8	17.9 [✓]	
630	17.9	17.8	17.9 [✓]		655	17.7	17.9	17.8 [✓]	
631	18.3	18.0	18.2 [✓]		656	18.2	17.9	18.0 [✓]	neb?
632	18.2	17.8	18.0 [✓]		657	18.0	18.0	18.0 [✓]	
633	17.9	17.8	17.9 [✓]		658	18.0	17.9	17.9 [✓]	
634	17.3	17.3	17.3 [✓]		659	17.4	17.5	17.4 [✓]	
635	16.6 16.3	16.3 16.4	16.4 [✓]		660	17.7	17.7	17.7 [✓]	
636	18.1	17.9	18.0 [✓]	*SF [✓]	661	17.5	17.7	17.6 [✓]	
637	18.0	17.6	17.8 [✓]	} Pair [✓]	662	18.1	18.0	18.1 [✓]	
638	17.6	17.6	17.6 [✓]		663	17.9	17.8	17.8 [✓]	
639	16.7	16.5	16.6 [✓]		664	17.8	17.7	17.7 [✓]	
640	18.2	18.0	18.1 [✓]		665	15.4 - 1	15.5	15.4 [✓]	
641	17.4	17.3	17.4 [✓]		666	17.7	17.8	17.7 [✓]	
642	17.9	17.7	17.8 [✓]		667	17.5	17.5	17.5 [✓]	
643	17.9	17.9	17.9 [✓]		668	17.7	17.7	17.7 [✓]	
644	18.0	18.0	18.0 [✓]		669	18.1	17.9	18.0 [✓]	
645	17.6	17.5	17.5 [✓]		670	17.5	17.5	17.5 [✓]	
646	17.5	17.7	17.6 [✓]		671	18.1	18.0	18.0 [✓]	
647	17.6	17.8	17.7 [✓]		672	17.8	17.8	17.8 [✓]	
648	18.3	17.9	18.1 [✓]		673	17.2	17.1	17.1 [✓]	
649	17.4	17.5	17.4 [✓]		674	17.9	17.6	17.8 [✓]	
650	18.1	18.0	18.1 [✓]		675	17.8	17.9	17.9 [✓]	
651	17.9	17.8	17.8 [✓]		676	17.9	18.1	18.0 [✓]	} Pair [✓]
652	18.0	17.9	17.9 [✓]		677	18.1	18.1	18.1 [✓]	
653	16.9	17.3	17.1 [✓]		678	16.5 16.6	15.9 15.9	16.2 [✓]	

679	18.1	17.9	18.0 [✓]		704	16.3	16.1	16.2 [✓]	
680	16.8	16.6	16.7 [✓]		705	17.9	17.8	17.8 [✓]	
681	17.2	17.1	17.2 [✓]		706	18.0	17.9	17.9 [✓]	
682	17.6	17.6	17.6 [✓]		707	18.0	17.9	18.0 [✓]	
683	18.0	17.9	17.9 [✓]		708	17.9	17.9	17.9 [✓]	neb?
684	18.2	18.1	18.2 [✓]		709	17.7	17.8	17.7 [✓]	
685	18.1	18.0	18.1 [✓]		710	18.2	18.0	18.1 [✓]	
686	18.2	18.1	18.2 [✓]		711	17.8	17.9	17.8 [✓]	
687	17.8	17.8	17.8 [✓]	(XNP)	712	17.4	17.6	17.5 [✓]	
688	18.0	18.0	18.0 [✓]		713	17.7	17.7	17.7 [✓]	
689	18.1	17.8	17.9 [✓]		714	16.8	16.7	16.7 [✓]	
690	17.3	17.2	17.2 [✓]		715	17.5	17.6	17.6 [✓]	
691	17.9	17.8	17.9 [✓]		716	18.1	17.9	18.0 [✓]	
692	17.1	17.1	17.1 [✓]		717	15.3 + 1	15.2	15.3 [✓]	F5B
693	17.2	17.4	17.3 [✓]		718	17.6	17.8	17.7 [✓]	
694	18.0	17.9	18.0 [✓]		719	17.6	17.8	17.7 [✓]	(719 ^P 790)
694a	17.9	17.7	17.8 [✓]		720	17.9	18.0	17.9 [✓]	
695	17.7	17.9	17.8 [✓]	(X P)	721	17.4	17.5	17.4 [✓]	
696	17.5	17.5	17.5 [✓]		722	17.9	18.0	17.9 [✓]	
697	17.0 16.8	16.0 16.0	16.4 [✓]		723	17.3	17.7	17.5 [✓]	
698	18.2	18.0	18.1 [✓]	From neb?	724	17.5	17.8	17.6 [✓]	
699	16.7 16.7	16.4 16.7	16.6 [✓]		725	18.1	18.0	18.1 [✓]	
700	18.0	17.7	17.9 [✓]		726	18.0	18.0	18.0 [✓]	
701	17.5	17.5	17.5 [✓]		727	17.9	17.9	17.9 [✓]	
702	17.5	17.7	17.6 [✓]		728	17.9	18.0	18.0 [✓]	
703	18.1	18.1	18.1 [✓]						

729	16.9	16.9	16.9 [✓]	Spiral on Edge	752	17.9	18.0	18.0 [✓]	
730	17.8	17.5	17.7 [✓]		753	17.8	17.9	17.9 [✓]	
731	17.0 16.7	16.2 15.9	16.4 [✓]	Spiral on E. Pair	754	17.7	17.9	17.8 [✓]	
732	16.4 16.5	16.3 16.6	16.5 [✓]		755	16.8	16.6	16.7 [✓]	
733	18.1	18.0	18.0 [✓]		756	17.7	17.9	17.8 [✓]	
734	17.9	18.0	17.9 [✓]		757	17.8	18.0	17.9 [✓]	
735	17.8	17.9	17.8 [✓]		758	17.6	17.8	17.7 [✓]	
736	15.0 -1	15.1	15.1 [✓]	Spiral on Edge	759	18.0	18.0	18.0 [✓]	
737	18.1	18.0	18.1 [✓]		760	17.3	17.5	17.4 [✓]	*SF [✓]
738	17.4	17.5	17.5 [✓]		761	17.4	17.5	17.4 [✓]	
739	18.1	17.9	18.0 [✓]		762	17.9	18.1	18.0 [✓]	
Square 10					763	17.5	17.6	17.5 [✓]	
740	17.9	17.8	17.8 [✓]		764	18.0	18.0	18.0 [✓]	
741	17.6	17.7	17.7 [✓]		765	18.2	18.1	18.2 [✓]	
742	17.6	17.6	17.6 [✓]		766	17.6	17.8	17.7 [✓]	
743	15.3	15.1	15.2 [✓]		767	17.9	17.8	17.9 [✓]	
744	16.9	16.7	16.8 [✓]		768	18.2	18.2	18.2 [✓]	
744a	774a				769	17.4	17.7	17.6 [✓]	
745	17.7	17.8	17.8 [✓]		770	17.1	16.9	17.0 [✓]	
746	17.5	17.5	17.5 [✓]		771	17.6	17.7	17.7 [✓]	
747	17.6	17.7	17.7 [✓]		772	17.8	17.9	17.8 [✓]	
748	17.5	17.6	17.6 [✓]		773	17.7	17.8	17.7 [✓]	
749	18.1	18.2	18.1 [✓]		774	17.8	17.8	17.8 [✓]	
750	17.6	17.6	17.6 [✓]		774a	18.1	17.9	18.0 [✓]	
751	17.6	17.8	17.7 [✓]		775	17.5	17.7	17.6 [✓]	
					776	18.2	17.9	18.0 [✓]	

777	17.5	17.8	17.7 [✓]		802	17.6	17.9	17.7 [✓]	
778	18.1	17.9	18.0 [✓]		803	17.4	17.3	17.4 [✓]	803 near 844
779	17.7	17.5	17.6 [✓]	779 A. 783 J [✓]	804	17.9	17.9	17.9 [✓]	
780	18.0	17.9	18.0 [✓]		805	15.3	15.3	15.3 [✓]	
781	17.7	17.7	17.7 [✓]		806	18.2	18.1	18.1 [✓]	
782	18.0	17.9	17.9 [✓]	*SP [✓]	807	18.3	18.2	18.2 [✓]	
783	16.9	16.7	16.8 [✓]		808	18.2	18.2	18.2 [✓]	
784	18.2	18.1	18.2 [✓]		809	17.5	17.6	17.5 [✓]	
785	16.9	17.2	17.1 [✓]		810	18.0	18.0	18.0 [✓]	
786	18.1	18.0	18.0 [✓]		811	17.9	17.9	17.9 [✓]	
787	17.9	17.9	17.9 [✓]		812	18.1	18.2	18.2 [✓]	
788	16.8	17.2	17.0 [✓]		813	17.4	17.1	17.3 [✓]	
789	17.9	18.0	17.9 [✓]		814	17.5	17.6	17.6 [✓]	
790	18.1	18.0	18.0 [✓]		815	18.2	18.1	18.1 [✓]	
791	17.8	17.8	17.8 [✓]		816	17.7	17.8	17.8 [✓]	
792	17.9	18.2	18.1 [✓]		817	18.1	18.0	18.1 [✓]	
793	16.7	17.1	16.9 [✓]		818	17.5	17.3	17.4 [✓]	
794	17.2	17.2	17.2 [✓]		819	17.8	17.9	17.8 [✓]	
795	16.4	16.0	16.2 [✓]		820	16.8 16.6	16.0 16.0	16.4 [✓]	*SP [✓]
796	15.1	15.0	15.0 [✓]	Spiral on Edge	821	17.1 17.4	17.0 17.3	17.2 [✓]	
797	17.7	17.8	17.7 [✓]		822	18.0	18.0	18.0 [✓]	
798	17.0	17.2	17.1 [✓]		823	17.5	17.7	17.6 [✓]	
799	15.0	15.0	15.0 [✓]	Spiral on Edge	824	17.7	17.8	17.7 [✓]	
800	17.4	17.7	17.6 [✓]		825	17.0	16.6	16.8 [✓]	
801	18.1	18.1	18.1 [✓]		826	17.4	17.7	17.6 [✓]	

827	17.1	17.4	17.3 [✓]		851	18.0	17.6	17.8 [✓]	
828	17.8	18.0	17.9 [✓]		852	17.0	16.7	16.8 [✓]	
829	17.9	18.0	18.0 [✓]		853	15.0	15.0	15.0 [✓]	
830	17.5	17.9	17.7 [✓]		854	16.4 16.4	15.7 15.6	16.0 [✓]	
831	17.8	17.7	17.7 [✓]	*SF [✓]	855	17.8	17.9	17.9 [✓]	
832	17.6	17.5	17.6 [✓]		856	17.4	17.3	17.4 [✓]	
833	18.3	17.9	18.1 [✓]		857	17.8	17.9	17.9 [✓]	
834	17.9	17.7	17.8 [✓]		858	17.3	17.5	17.4 [✓]	
835	17.8	17.6	17.7 [✓]		859	17.8	17.8	17.8 [✓]	
836	17.8	17.8	17.8 [✓]		860	17.6	17.4	17.5 [✓]	
837	17.2	17.6	17.4 [✓]		861	17.9			neb? [✓]
838	17.9	17.8	17.9 [✓]		862	18.0	17.8	17.9 [✓]	
839	17.4	17.5	17.4 [✓]		863	17.6	17.4	17.5 [✓]	
840	18.1	17.8	17.9 [✓]	*NP [✓]	864	17.4	17.1	17.2 [✓]	
841	15.9	15.5	15.7 [✓]		865	17.9	17.9	17.9 [✓]	
842	17.8	18.0	17.9 [✓]		866	17.7	17.8	17.7 [✓]	
843	17.7	17.9	17.8 [✓]		867	18.0	18.0	18.0 [✓]	
844	17.8	18.0	17.9 [✓]		868	18.1	18.0	18.0 [✓]	
845	17.5	17.4	17.4 [✓]		869	18.0	17.9	17.9 [✓]	
846	16.4 16.6	15.8 15.7	16.1 [✓]	*SF	870	17.2	16.9	17.0 [✓]	
847	17.6	17.6	17.6 [✓]		871	18.1	18.0	18.1 [✓]	
Square 11					872	17.8	17.9	17.8 [✓]	
848	17.7	17.9	17.8 [✓]	*SP [✓]	873	16.7	16.5	16.6 [✓]	spiral on edge
849	18.2	18.2	18.2 [✓]	neb? [✓]	874	17.8	17.9	17.9 [✓]	
850	17.5	17.7	17.6 [✓]		875	18.2	18.1	18.2 [✓]	

875			
877	17.9	17.6	17.7 [✓]
878	18.1	18.0	18.0 [✓]
879	18.1	17.9	18.0 [✓]
880	18.0	17.8	17.9 [✓]
881	18.1	18.0	18.1 [✓]
882	17.1	16.8	17.0 [✓]
883	17.6	17.5	17.5 [✓]
884	18.2	18.0	18.1 [✓]
885	18.1	18.0	18.0 [✓]
886	17.7	17.5	17.6 [✓]
887	18.1	17.9	18.0 [✓]
888	17.8	17.8	17.8 [✓]
889	17.8	17.7	17.7 [✓]
890	18.0	18.0	18.0 [✓]
891	18.2	18.2	18.2 [✓]
892	18.1	18.1	18.1 [✓]
893	17.7	17.7	17.7 [✓]
894	18.1	18.0	18.0 [✓]
895	17.5	17.5	17.5 [✓]
896	18.0	17.8	17.9 [✓]
897	18.3	18.2	18.3 [✓]
898	18.2	18.1	18.2 [✓]
899	18.1	18.1	18.1 [✓]
900	17.5	17.7	17.6 [✓]

901	17.4	17.7	17.5 [✓]
901a	17.6	17.5	17.6 [✓]
902	17.4	17.3	17.3 [✓]
903	17.3	17.2	17.2 [✓]
903a	17.9	17.9	17.9 [✓]
904	18.0	17.8	17.9 [✓]
905	16.9 17.1	16.9 16.5	16.9 [✓]
906	18.1	18.1	18.1 [✓]
907	18.2	18.1	18.1 [✓]
908	17.9	17.8	17.8 [✓]
909	18.1	18.1	18.1 [✓]
910	18.0	18.1	18.1 [✓]
911	17.6	17.6	17.6 [✓]
912	17.5	17.3	17.4 [✓]
913	18.1	18.0	18.0 [✓]
914	17.6	17.7	17.7 [✓]
915	17.9	18.0	18.0 [✓]
916	17.6	17.7	17.7 [✓]
Square 12			
917	17.9	17.9	17.9 [✓]
918	17.7	17.3	17.5 [✓]
919	17.6	17.9	17.8 [✓]
920	17.9	18.0	17.9 [✓]
921	17.6	17.7	17.6 [✓]
922	17.9	17.5	17.7 [✓]

923	17.8	17.8	17.8✓		948	17.8	17.8	17.8✓	
924	17.5	17.6	17.5✓		949	18.0	17.8	17.9✓	
925	18.0	18.0	18.0✓		950	18.1	18.0	18.0✓	
926	17.5	17.6	17.6✓		951	17.9	17.8	17.9✓	
927	17.7	17.7	17.7✓		952	15.2 - 1	15.3	15.2✓	Spinal on Edge
928	18.1	18.0	18.1✓		953	18.2	18.2	18.2✓	
929	17.6	17.8	17.7✓		954	17.9	18.0	17.9✓	
930	17.9	17.8	17.8✓		955	17.7	17.7	17.7✓	
931	18.1	17.9	18.0✓		956	17.8	18.0	17.9✓	
932	17.3	16.9	17.1✓		957	17.8	17.7	17.8✓	
933	17.4	17.6	17.5✓	ht. x NP	958	17.9	17.5	17.7✓	
934	18.1	18.2	18.1✓		959	18.2	18.2	18.2✓	
935	17.7	18.0	17.8✓		960	17.7	17.8	17.7✓	
936	18.1 18.0	17.9 17.5	17.9✓		961	18.0	18.0	18.0✓	
937	17.9	17.9	17.9✓		962	17.5	17.6	17.6✓	
938	18.0	18.1	18.1✓		963	17.6	17.8	17.7✓	
939	18.0	18.0	18.0✓		964	15.0	15.0	15.0✓	not measured 4/17/92 Spinal on Edge
940	18.1	17.8	18.0✓		965	17.8	17.8	17.8✓	
941	18.1	18.1	18.1✓		966	17.7	17.9	17.8✓	
942	16.8	16.9	16.9✓		967	15.2 14.9	15.1	15.0✓	
943	17.5	17.3	17.4✓		968	17.2	16.9	17.1✓	
944	17.4	17.7	17.6✓		969	18.1	18.1	18.1✓	
945	17.3	17.5	17.4✓		970	17.5	17.8	17.6✓	
946	18.0	18.0	18.0✓		971	17.0	17.4	17.2✓	
947	17.9	17.8	17.9✓		972	18.1	17.9	18.0✓	

973	17.9	17.7	17.8 [✓]		997	18.0	18.0	18.0 [✓]	18.1
974	18.0	17.7	17.9 [✓]		998	17.9	18.1	18.0 [✓]	17.8
975	16.9	17.2	17.0 [✓]		999	17.8	17.8	17.8 [✓]	17.8
976	18.1	18.0	18.1 [✓]		1000	18.2	18.0	18.1 [✓]	18.1
977	16.7	16.8	16.8 [✓]		01	16.8	17.0	16.9 [✓]	17.3
978	18.2	17.9	18.1 [✓]		02	16.5	16.8	16.6 [✓]	
979	18.0	17.8	17.9 [✓]		03	17.6	17.7	17.7 [✓]	17.8
980	18.1	17.9	18.0 [✓]	neb?	04	17.5	17.8	17.6 [✓]	17.8
981	17.9	17.6	17.8 [✓]		05	17.1	17.0	17.1 [✓]	17.4
982	18.1	17.9	18.0 [✓]		06	16.4	16.7	16.6 [✓]	
983	18.0	18.1	18.1 [✓]		07	18.3	18.3	18.3 [✓]	18.2
984	17.6	17.8	17.6 [✓]		08	18.1	18.2	18.1 [✓]	18.1
985	18.2	18.0	18.1 [✓]		09	17.9	18.0	18.0 [✓]	17.7
986	17.9	17.8	17.9 [✓]		1010	18.2	18.3	18.3 [✓]	18.1
987	18.0	17.8	17.9 [✓]		11	17.5	17.7	17.6 [✓]	17.8
988	17.3	17.3	17.3 [✓]		12	17.4	17.8	17.6 [✓]	17.7
989	17.4	17.4	17.4 [✓]		13	17.6	17.8	17.7 [✓]	17.8
990	17.9	17.9	17.9 [✓]		14	18.1	18.1	18.1 [✓]	18.2
Square 13					15	18.1	18.2	18.2 [✓]	FW neb? XNF
991	17.9	18.0	18.0 [✓]	neb. seq. 17.9	16	17.9	18.0	17.9 [✓]	18.0
992	17.7	17.7	17.7 [✓]	17.8	17	16.0	15.9	16.0 [✓]	Spinal on Edge
993	18.2	18.1	18.1 [✓]	18.1	18	14.8	15.0	15.0 [✓]	Spinal on Edge
994	17.4	17.4	17.4 [✓]	17.7	19	16.9 17.0	17.5 17.5	17.2 [✓]	Spinal on Edge
995	16.9	16.9	16.9 [✓]	17.3	1020	18.2	18.2	18.2 [✓]	18.2
996	17.6	17.8	17.7 [✓]		1021	18.1	18.3	18.2 [✓]	18.1

1022	16.9	17.1	17.0 [✓]	17.4	1047	18.1	18.2	18.2 [✓]	18.0
23	17.6	17.5	17.5 [✓]	17.9	48	17.1	17.5	17.3 [✓]	17.5
24	17.9	17.9	17.9 [✓]	18.0	49	18.2	18.2	18.2 [✓]	18.2 [✓] *SP
25	16.5	16.6	16.6 [✓]	16.8 [✓] Spinlon Edge	1050	17.2	16.8	17.0 [✓]	17.5
26	17.7	17.5	17.6 [✓]	17.9	51	17.7	17.4 17.5	17.5 [✓]	
27	17.6	18.0	17.8 [✓]	17.7	52	18.2	18.0	18.1 [✓]	18.1
28	17.5	17.8	17.7 [✓]	17.7	53	17.8	17.6	17.7 [✓]	17.9
29	18.2	17.9	18.0 [✓]	18.2 [✓] L	54	17.9	17.9	17.9 [✓]	18.0
1030	17.9	18.0	17.9 [✓]	18.0	55	18.1	18.0	18.1 [✓]	18.0
31	17.6	17.6	17.6 [✓]		56	17.4	17.7	17.6 [✓]	17.6 [✓] *SP
32	17.8	17.8	17.8 [✓]	18.0	57	17.9	17.9	17.9 [✓]	18.0
33	17.9	18.1	18.0 [✓]	18.0	58	17.7	17.4	17.5 [✓]	17.8
34	17.8	17.8	17.8 [✓]	17.9	59	17.1	17.0	17.0 [✓]	17.6
35	17.7	17.7	17.7 [✓]	17.9	1060	17.9	17.8	17.9 [✓]	
36	17.9	17.8	17.8 [✓]	17.8	61	16.6	16.8	16.7 [✓]	
37	18.0	17.9	17.9 [✓]	17.9	62	18.3	18.3	18.3 [✓]	18.2
38	18.1	17.9	18.0 [✓]	18.0	63	17.6	17.6	17.6 [✓]	17.9
39	17.9	17.7	17.8 [✓]	18.0 [✓] neb?	64	18.0 17.4	18.0 18.0	17.9 [✓]	
1040	16.9	16.8	16.8 [✓]	17.2	65	18.1	18.1	18.1 [✓]	18.2
41	17.8	17.8	17.8 [✓]	17.9	1065a 66	16.9 17.6	16.8 17.6	16.9 [✓] 17.6 [✓]	17.9
42	17.9	17.9	17.9 [✓]	17.9	67	17.5	17.7	17.6 [✓]	17.7
43	17.8	17.8	17.8 [✓]	18.0	68	17.7	17.5	17.6 [✓]	17.8
44	18.0	18.0	18.0 [✓]	18.0	69	17.6	17.4	17.5 [✓]	17.7
45	17.9	17.9	17.9 [✓]	18.0	1070	17.3	17.0	17.2 [✓]	17.4
1046	17.5	17.6	17.5 [✓]	17.9	1071	18.1	18.0	18.0 [✓]	

1072	17.6	17.6	17.6 [✓]	17.6	1096	18.0	17.9	18.0 [✓]	
73	17.7	17.7	17.7 [✓]	17.9	97	18.0	18.1	18.1 [✓]	
74	17.5	17.4	17.4 [✓]	17.6	98	17.9	18.0	18.0 [✓]	
75	16.5	16.7	16.6 [✓]		99	18.1	18.0	18.1 [✓]	neb?
76	17.7	17.7	17.7 [✓]	17.9	1100	17.8	17.8	17.8 [✓]	
77	17.4	17.4	17.4 [✓]		01	17.9	17.8	17.8 [✓]	(XSF)
78	17.7	17.6	17.7 [✓]	17.9	02	17.4	17.5	17.5 [✓]	} Pair [✓]
79	18.2	18.2	18.2 [✓]	18.3	03	16.9	16.9	16.9 [✓]	
1080	17.8	17.8	17.8 [✓]	17.9	04	17.9	17.7	17.8 [✓]	
81	18.0	17.9	18.0 [✓]	18.0	05	16.3	16.4	16.4 [✓]	
82	16.3	15.9 16.0	16.0 [✓]		06	18.1	17.9	18.0 [✓]	
83	17.7	17.6	17.7 [✓]		07	17.9	17.5	17.7 [✓]	
84	18.1 18.2	17.9 17.7	18.0 [✓]		08	17.5 17.5	17.2 16.8	17.3 [✓]	
85	15.0 14.7	15.0 15.3	15.0 [✓]	Spiral on Edge	09	17.7	17.6	17.6 [✓]	
1086	17.9	17.7	17.8 [✓]	17.9	110	16.8	16.6	16.7 [✓]	16.8
Square 14					11	18.2	18.2	18.2 [✓]	
1087	17.7	18.0	17.8 [✓]		12	17.6	17.7	17.7 [✓]	
88	17.7	17.9	17.8 [✓]		13	17.2 16.9	17.1 17.4	17.2 [✓]	
89	17.4	17.3	17.3 [✓]		14	18.1	18.1	18.1 [✓]	
1090	16.7	16.8	16.8 [✓]		15	16.8	17.0	16.9 [✓]	
91	18.1	17.8	17.9 [✓]		16	17.1	16.8	17.0 [✓]	
92	17.8 17.5	17.4 16.9	17.4 [✓]		17	15.3 + 2	15.1	15.2 [✓]	
93	18.2	18.2	18.2 [✓]		18	17.8	17.7	17.7 [✓]	
94	17.9	18.0	18.0 [✓]		19	17.7	17.7	17.7 [✓]	
1095	17.9	17.8	17.9 [✓]		1120	17.9	17.7	17.8 [✓]	

1121	17.2	17.0	17.1 [✓]		1146	18.0	17.8	17.9 [✓]	
22	15.7 - 2	15.9	15.8 [✓]	16.3 * SF [✓]	47	17.9	18.0	18.0 [✓]	
23	17.8	17.9	17.8 [✓]	obj. att SF	48	18.1	18.0	18.1 [✓]	
24	17.8	17.7	17.7 [✓]		49	17.6	17.6	17.6 [✓]	
25	18.2 18.2	17.8 17.5	17.9 [✓]		1150	15.9 16.1	16.4 16.6	16.2 [✓]	Spinal on Edge
26	18.3	18.0	18.2 [✓]		51	18.2	18.1	18.2 [✓]	
27	18.1	17.9	18.0 [✓]		52	17.5	17.8	17.7 [✓]	
28	17.5	17.8	17.7 [✓]		53	17.2	16.8	17.0 [✓]	
29	17.7	17.5	17.6 [✓]		54	17.9	17.7	17.8 [✓]	
1130	17.1	17.0	17.0 [✓]	Spinal on Edge	455				
31	16.6	16.8	16.7 [✓]		56	17.3	17.3	17.3 [✓]	
32	17.7 17.8	17.7 17.6	17.7 [✓]		57	17.0	16.9	17.0 [✓]	
1133	18.1	17.8		neb.?	58	17.9	17.8	17.8 [✓]	
34	17.7	17.7	17.7 [✓]	L	59	18.2	18.1	18.2 [✓]	
35	16.3 16.5	16.0 16.0	16.2 [✓]	Spinal on Edge	1160	17.9	17.9	17.9 [✓]	
36	17.5	17.4	17.5 [✓]		61	17.2	16.9	17.1 [✓]	Spinal on Edge
37	17.6	17.9	17.8 [✓]		62	17.9	17.9	17.9 [✓]	
38	16.6 16.6	16.2 15.9	16.4 ³	16.2	63	18.1	18.1	18.1 [✓]	
39	17.0	17.0	17.0 [✓]		64	17.9	17.8	17.8 [✓]	
1140	17.9	18.2	18.1 [✓]		65	17.3	17.4	17.3 [✓]	
41	18.3	18.3	18.3 [✓]		66	16.1	16.4	16.2 [✓]	
42	17.7	17.7	17.7 [✓]	Spinal on Edge	67	17.2 17.5	17.5 17.0	17.3 [✓]	
43	18.2	18.2	18.2 [✓]		68	18.1	18.1	18.1 [✓]	
1144				✓	69	17.0	16.8	16.9 [✓]	
1145	17.0 17.2	17.1 16.5	17.0 [✓]		1170	18.2	18.2	18.2 [✓]	

1171	18.0	18.1	18.1 [✓]		1186	18.1	18.1	18.1 [✓]	
72	16.9	16.9	16.9 [✓]		97	17.1	16.9	17.0 [✓]	
73	16.9 16.8	16.7 17.0	16.8 [✓]		98	17.0	16.9	17.0 [✓]	
74	17.8	17.7	17.8 [✓]		99	17.8	17.8	17.8 [✓]	
75	18.0	17.9	17.9 [✓]		1200	17.7	17.6	17.7 [✓]	
76	18.0	17.8	17.9 [✓]		01	18.3	18.2	18.2 [✓]	
77	18.1	18.2	18.2 [✓]		1202	16.3	16.7	16.5 [✓]	
78	18.1	18.1	18.1 [✓]		Square 15				
1177					1203	17.4	17.1	17.3 [✓]	
1180	17.4	17.2	17.3 [✓]		04	15.9 15.7 +6	15.3 15.1	15.5 ⁶	Spinal on Edge neb.
81	18.0	17.9	17.9 [✓]	} close Pair	1205	17.7			
82	17.6	17.8	17.7 [✓]		06	15.2 15.1	15.2 15.0	15.1 [✓]	
83	17.1	17.0	17.0 [✓]		07	17.9	17.9	17.9 [✓]	
84	17.3	17.5	17.4 [✓]		08	17.9	17.9	17.9 [✓]	
85	15.7 15.9 +4	15.5 15.3	15.6 [✓]		1208a	18.0	18.0	18.0 [✓]	
86	18.1	18.0	18.1 [✓]		09	18.2	18.1	18.2 [✓]	
87	18.0	17.9	18.0 [✓]		1210	18.0	18.0	18.0 [✓]	
88	17.9	17.9	17.9 [✓]		11	17.8	17.7	17.7 [✓]	
89	17.7	18.1	17.9 [✓]		12	16.9	16.5	16.7 [✓]	
1190	17.9	18.0	17.9 [✓]		13	18.1	18.2	18.2 [✓]	
91	16.7	16.8	16.8 [✓]		14	18.1	18.1	18.1 [✓]	
92	16.4	16.8	16.6 [✓]	faint * SP	15	17.5	17.2	17.3 [✓]	} TRIPLE
93	18.1	17.8	17.9 [✓]		16	15.0	15.0	15.0 [✓]	
94	17.4	17.5	17.4 [✓]		17	17.4	17.8	17.6 [✓]	
1195	17.9	17.8	17.9 [✓]		18	16.2 16.5	15.9 15.9	16.1 [✓]	
					1219	18.0	17.9	18.0 [✓]	

1220	18.0	17.8	17.9 [✓]		1245	16.8	17.0	17.0 [✓]	
21	17.8	17.6	17.7 [✓]		46	18.1	18.0	18.0 [✓]	
22	18.2	18.0	18.1 [✓]		47	15.3	15.1	15.2 [✓]	Spiral on edge
23	17.6	17.6	17.6 [✓]		48	17.7	17.8	17.7 [✓]	
24	18.3	18.2	18.3 [✓]		49	17.1	17.0	17.0 [✓]	
25	17.8	17.8	17.8 [✓]		1250	18.1	17.9	18.0 [✓]	
26	18.1	17.9	18.0 [✓]		51	17.8	17.9	17.9 [✓]	
27	18.0	17.9	18.0 [✓]		52	17.4	17.7	17.6 [✓]	
28	17.7	17.8	17.7 [✓]	} Pair	53	18.1	18.1	18.1 [✓]	
29	17.2	17.3	17.2 [✓]		54	17.2	17.3	17.3 [✓]	
1230	17.3	17.2	17.3 [✓]		55	17.2	17.5	17.4 [✓]	
31	18.2	17.9	18.0 [✓]		56	16.7	16.5	16.6 [✓]	
32	17.9	17.9	17.9 [✓]		57	17.7	17.9	17.8 [✓]	
33	18.0	17.9	17.9 [✓]		58	17.8	18.0	17.9 [✓]	
34	17.9	17.9	17.9 [✓]		59	17.8 17.3	17.6 17.8	17.6 [✓]	
35	17.7	17.7	17.7 [✓]		1260	17.7	17.9	17.8 [✓]	
36	17.0	17.1	17.0 [✓]		61	18.1	18.1	18.1 [✓]	
37	17.1	17.3	17.2 [✓]		62	18.0	18.0	18.0 [✓]	
38	17.8	17.9	17.9 [✓]		63	17.7	17.9	17.8 [✓]	
39	17.3	17.3	17.3 [✓]		64	17.9	18.0	17.9 [✓]	
1240	17.7	17.7	17.7 [✓]		65	18.1	18.0	18.0 [✓]	
41	17.2	17.0	17.1 [✓]		66	17.4	17.7	17.5 [✓]	
42	17.5	17.2	17.4 [✓]		67	15.0	15.0	15.0 [✓]	Spiral
43	18.0	17.9	17.9 [✓]		68	16.3	16.3	16.3 [✓]	
1244	17.6	18.0	17.8 [✓]		1268a	18.1	17.9	18.0 [✓]	
					1269	16.7	16.5	16.6 [✓]	

1270	15.5	15.9	15.7 [✓]	1295	17.9	17.9	17.9 [✓]	
71	17.6	17.6	17.6 [✓]	96	17.7	17.8	17.8 [✓]	between *12
72	18.2	18.2	18.2 [✓]	97	17.6	17.8	17.7 [✓]	
73	17.3	17.3	17.3 [✓]	98	18.1	18.2	18.1 [✓]	
74	17.5	17.8	17.6 [✓]	99	17.7	17.9	17.8 [✓]	
75	17.8	17.9	17.9 [✓]	1300	17.5	17.8	17.6 [✓]	
96	17.4	17.7	17.6 [✓]	01	16.4 16.6	16.3 16.0	16.3 [✓]	
77	17.9	18.1	18.0 [✓]	02	17.7	17.7	17.7 [✓]	} Pair
78	17.1	16.9	17.0 [✓]	03	18.1	18.1	18.1 [✓]	
79	16.9	16.9	16.9 [✓]	04	17.8	17.8	17.8 [✓]	
1280	17.5	17.9	17.7 [✓]	05	17.7	17.7	17.7 [✓]	
81	17.8	18.0	17.9 [✓]	06	17.9	17.8	17.9 [✓]	
82	17.8	17.9	17.9 [✓]	07	16.6	16.3	16.4 [✓]	} Spinal on Edge
83	18.0	18.0	18.0 [✓]	08	17.8	17.8	17.8 [✓]	
84	17.5	17.6	17.6 [✓]	09	18.1	18.2	18.1 [✓]	
85	17.9	18.2	18.1 [✓]	1310	17.7	17.9	17.8 [✓]	
86	17.4	17.3	17.4 [✓]	11	17.5	17.5	17.5 [✓]	
87	17.6	17.7	17.7 [✓]	12	17.8	18.0	17.9 [✓]	
88	17.8	17.9	17.8 [✓]	13	17.9	18.0	18.0 [✓]	
89	17.7	17.6	17.7 [✓]	14	17.7	17.9	17.8 [✓]	
1290	17.6	17.8	17.7 [✓]	15	17.9	17.9	17.9 [✓]	
91	17.8	17.9	17.8 [✓]	16	16.2 16.4	16.3 16.5	16.3 [✓]	
92	17.7	17.7	17.7 [✓]	17	17.2	17.1	17.1 [✓]	
93	17.0 17.0	16.9 16.8	16.9 [✓]	18	18.1	18.1	18.1 [✓]	
1294	16.4	16.3	16.3 [✓]	1319	18.0	17.9	18.0 [✓]	

1320	18.1	18.0	18.1 [✓]	1343	17.9	17.9	17.9 [✓]
21	17.5	17.3	17.4 [✓]	44	18.1	18.1	18.1 [✓] neb?
22	18.1	18.0	18.0 [✓]	45	18.2	18.2	18.2 [✓]
23	18.2	18.1	18.1 [✓]	46	16.4	16.4	16.4 [✓]
24	17.9	18.0	18.0 [✓]	47	17.8	17.9	17.9 [✓]
1325				48	17.7	17.8	17.8 [✓]
26	17.8	18.1	17.9 [✓]	49	17.6	17.7	17.7 [✓]
27	18.0	18.0	18.0 [✓]	1350	17.8	17.8	17.8 [✓]
28	17.9	17.9	17.9 [✓]	51	18.0	17.8	17.9 [✓]
29	17.5	17.8	17.6 [✓]	52	18.0	17.6	17.8 [✓]
1330	17.4	17.8	17.6 [✓] *NP	53	17.5	17.5	17.5 [✓]
31	17.4	17.7	17.5 [✓]	54	17.9	17.6	17.8 [✓]
32	17.3	17.5	17.4 [✓]	55	17.8	17.6	17.7 [✓]
33	15.3	15.4	15.4 [✓]	56	17.2 17.6	17.4 17.1	17.3 [✓]
34	18.2	18.1	18.1 [✓]	57	17.8	17.7	17.7 [✓] } pair
35	18.1	18.0	18.0 [✓]	58	17.9	17.8	17.8 [✓]
36	17.8	17.8	17.8 [✓] <u>spiral on edge</u>	59	17.5	17.5	17.5 [✓] far neb? spiral
1337	17.7	17.9	17.8 [✓]	1360	17.8	17.8	17.8 [✓]
1346	15.0	15.0	15.0 [✓]	61	17.9 18.0	17.8 17.5	17.8 [✓] 17.6 [✓]
square 16				62	17.6	17.3	17.5 [✓]
1338	17.9	17.7	17.8 [✓]	63	18.1	17.9	18.0 [✓]
39	18.2	17.9	18.1 [✓]	64	17.5	17.5	17.5 [✓]
1340	17.5	17.8	17.6 [✓]	65	18.2	18.2	18.2 [✓]
41	18.1	17.9	18.0 [✓]	66	17.6	17.8	17.7 [✓]
1342	17.6	17.8	17.7 [✓]	1367	17.8	17.7	17.8 [✓]

1368	17.8	17.8	17.8 [✓]		1392	17.3	17.7	17.5 [✓]
69	17.7	17.8	17.7 [✓]		94	17.7	17.7	17.7 [✓]
1370	17.6	17.8	17.7 [✓]		95	17.8	17.9	17.8 [✓]
71	15.7	15.5	15.6 [✓]		96	17.0	16.6	16.8 [✓]
1372	18.1	17.9		neb?	97	17.7	17.6	17.7 [✓]
73	18.0	17.9	18.0 [✓]		98	17.6	17.7	17.6 [✓]
74	17.6	17.5	17.5 [✓]		99	17.1	17.5	17.3 [✓]
75	17.9	17.9	17.9 [✓]		1400	16.3 16.7	16.5 16.0	16.4 [✓]
76	15.7	15.7	15.7 [✓]		01	17.8	17.9	17.9 [✓]
77	17.9	17.9	17.9 [✓]		02	17.3	17.6	17.4 [✓]
78	17.8	17.7	17.8 [✓]		03	17.5	17.7	17.6 [✓]
79	17.9	17.8	17.9 [✓]		04	17.6	17.5	17.5 [✓]
1380	17.4	17.2	17.3 [✓]	neb?	05	17.8	17.9	17.8 [✓]
81	18.1	17.9	18.0 [✓]		06	18.0	18.0	18.0 [✓]
1382				✓	07	17.1 17.4	16.7 16.9	17.0 [✓]
83	18.1	18.0	18.0 [✓]		1408	17.7	17.5	17.6 [✓]
84	18.2	18.0	18.1 [✓]		Square 17			
85	16.9	16.6	16.7 [✓]	Spiral on Edge	1409	17.7	17.8	17.8 [✓]
86	15.0	15.0	15.0 [✓]		1410	17.8	17.7	17.7 [✓]
87	17.7	17.6	17.6 [✓]		11	17.9	17.9	17.9 [✓]
88	17.6	17.5	17.5 [✓]		12	17.8	18.1	18.0 [✓]
89	17.6	17.7	17.6 [✓]		13	17.9	17.7	17.8 [✓]
1390	17.5	17.5	17.5 [✓]		14	17.5	17.7	17.6 [✓]
91	18.0	17.9	17.9 [✓]		15	17.6	17.5	17.5 [✓]
1392	16.7 16.8	16.1 15.9	16.4 [✓]		1416	17.9	17.8	17.8 [✓]

1417	17.9	18.1	18.0 [✓]	1442	18.1	18.0	18.0 [✓]	FWW neb?
18	17.8	18.0	17.9 [✓]	43	17.6	17.7	17.7 [✓]	
19	16.8	16.8	16.8 [✓]	44	17.9	17.9	17.9 [✓]	
1420	18.0	18.0	18.0 [✓]	45	18.1	17.9	18.0 [✓]	
21	18.0	17.9	17.9 [✓]	46	17.7	17.7	17.7 [✓]	
22	17.3	17.2	17.2 [✓]	47	16.6	16.3	16.4 [✓]	
23	17.1	17.1	17.1 [✓]	48	15.6 +1	15.5	15.5 [✓]	annulobacter Spiral
24	18.0	18.2	18.1 [✓]	49	17.7	17.9	17.8 [✓]	
25	18.2	18.2	18.2 [✓]	1450	18.1	18.2	18.2 [✓]	
26	18.1	18.1	18.1 [✓]	51	17.8	18.0	17.9 [✓]	
27	17.8	17.9	17.9 [✓]	52	17.8	18.0	17.9 [✓]	neb?
28	17.9	17.9	17.9 [✓]	53	16.6	16.4	16.5 [✓]	
29	18.3	18.2	18.2 [✓]	54	17.9	17.9	17.9 [✓]	
1430	18.2	18.2	18.2 [✓]	55	18.0	18.1	18.1 [✓]	
31	17.5	17.7	17.6 [✓]	56	17.1	17.1	17.1 [✓]	
32	18.1	18.1	18.1 [✓]	57	17.7 17.4	17.6 17.9	17.7 [✓]	luteo x sp
33	15.4 +1	15.3	15.3 [✓]	58	18.0	18.1	18.0 [✓]	
34	17.8	17.8	17.8 [✓]	59	17.7	17.8	17.7 [✓]	
35	17.7	17.9	17.8 [✓]	1460	17.9	18.1	18.0 [✓]	
36	15.9 +2	15.7	15.8 [✓]	61	16.9	17.1	17.0 [✓]	
37	18.1	18.1	18.1 [✓]	62	16.9	17.0	17.0 [✓]	
38	17.2 16.9	17.4 17.4	17.2 [✓]	63	17.8	17.9	17.9 [✓]	
39	16.3 16.5	15.7 15.7	16.1 [✓]	64	16.5	16.7	16.6 [✓]	
1440	18.1	17.9	18.0 [✓]	65	17.9	17.9	17.9 [✓]	
1441	17.9	17.9	17.9 [✓]	1466	18.2	17.9	18.0 [✓]	

neb. ✓	1467	17.7			neb. ✓	1492	18.1	18.2	18.2 ✓	
	68	17.9	18.0	17.9 ✓		93	17.8	17.9	17.9 ✓	
	69	18.2	18.0	18.1 ✓		94	17.5	17.9	17.7 ✓	
	1470	18.3	18.1	18.2 ✓		1495	17.7	17.9	17.8 ✓	
	71	17.9	18.0	18.0 ✓		Square 18				
	72	17.5	17.7	17.6 ✓		1496	17.7	17.5	17.6 ✓	
h. star 2	73	17.9	18.1	18.0 ✓		97	17.5	17.1	17.3 ✓	
	74	17.8	18.0	17.9 ✓		98	16.3	15.9	16.1 ✓	16.4
	75	18.2	17.9	18.1 ✓		99	16.9	16.7	16.8 ✓	
	76	16.9	17.2	17.0 ✓		1500	16.7	16.8	16.8 ✓	
	77	17.9	17.8	17.9 ✓		01	17.8	18.0	17.9 ✓	
	78	17.4	17.7	17.6 ✓		02	18.0	18.0	18.0 ✓	*SF
	79	17.8	17.9	17.9 ✓		03	16.3	16.2	16.3 ✓	16.4 Spinal Edge
	1480	17.8	17.8	17.8 ✓		04	17.6	17.6	17.6 ✓	
	81	18.0	17.9	18.0 ✓		05	14.8 15.1	115.0 115.0	115.0 ✓	Spinal ✓
SP	82	17.6	17.6	17.6 ✓		06	115.0	115.0	115.0 ✓	Spinal ✓
	83	115.0	115.0	115.0 ✓	FSB L?	07	17.5	17.8	17.6 ✓	
	84	17.8	18.0	17.9 ✓		08	18.0	18.1	18.1 ✓	
	85	17.7	17.8	17.7 ✓		09	18.1	17.9	18.0 ✓	
	86	18.0	18.1	18.0 ✓		1510	18.0	17.8	17.9 ✓	
	87	17.7	17.8	17.7 ✓		11	17.5	17.8	17.6 ✓	} Pair ✓
	88	17.6	17.7	17.6 ✓	he. *SF	12	17.7	17.5	17.6 ✓	
	89	17.9	17.9	17.9 ✓		13	17.0	17.1	17.1 ✓	
	1490	17.5	17.8	17.7 ✓		14	16.6 16.6	16.1 16.1	16.2 ✓	
	1491	18.0	18.2	18.1 ✓		1515	17.6	17.8	17.7 ✓	

1516	18.2	18.0	18.1 [✓]		1541	17.9	17.9	17.9 [✓]	
17	17.5	17.7	17.6 [✓]		42	17.8	17.8	17.8 [✓]	
18	17.5	17.6	17.6 [✓]		43	17.7	17.8	17.8 [✓]	
19	17.5	17.6	17.5 [✓]			17.4	17.5		
					44	17.0	17.7	17.4 [✓]	
1520	17.6	17.6	17.6 [✓]	*SP [✓]	45	17.7	17.8	17.7 [✓]	
21	17.9	17.9	17.9 [✓]		46	16.9	17.0	17.0 [✓]	
22	17.5	17.6	17.6 [✓]		47	18.1	18.2	18.1 [✓]	
1523	17.6	17.5	17.5	17.5	48	18.0	17.9	18.0 [✓]	
24	17.6	17.6	17.6 [✓]		49	17.0	16.8	16.9 [✓]	17.3
25	18.0	18.2	18.1 [✓]		1550	18.1	18.1	18.1 [✓]	
26	17.8	17.9	17.9 [✓]		51	18.0	17.8	17.9 [✓]	
27	17.7	18.0	17.8 [✓]		52	16.9	16.7	16.8 [✓]	
28	17.4	17.6	17.5 [✓]		53	17.8	17.8	17.8 [✓]	
29	17.5	17.5	17.5 [✓]		54	17.9	17.5	17.7 [✓]	
1530	17.0	17.4	17.2 [✓]	17.4	55	16.6	16.9	16.7 [✓]	
31	17.2	17.4	17.3 [✓]		56	17.9	18.0	17.9 [✓]	
32	17.9	17.9	17.9 [✓]		57	17.4	17.6	17.5 [✓]	
33	17.2	17.4	17.3 [✓]		58	17.3	17.0	17.2 [✓]	
34	15.0	15.2	15.0 [✓]		59	17.9	17.9	17.9 [✓]	
	15.0	15.1							
35	17.8	17.7	17.7 [✓]		1560	17.8	17.7	17.7 [✓]	
36	18.2	18.1	18.2 [✓]		61	17.1	16.7	16.9 [✓]	} Pair
37	18.2	18.3	18.3 [✓]		62	16.9	17.1	17.0 [✓]	
38	17.8	17.9	17.8 [✓]	} Pair [✓]	63	17.3	17.4	17.4 [✓]	
39	18.1	18.2	18.1 [✓]		64	17.6	17.8	17.7 [✓]	
1540	18.3	18.1	18.2 [✓]		1565	16.4	16.7	16.5 [✓]	

Spinal
Edge

1616	17.5	17.6	17.5 [✓]		1642	18.3	18.2	18.2 [✓]	
1617	17.9	18.0	18.0 [✓]		43	17.9	17.8	17.9 [✓]	
1619	17.9	17.9	17.9 [✓]		44	18.0	18.1	18.0 [✓]	
1620	17.5	17.7	17.6 [✓]		45	17.8	17.9	17.9 [✓]	
21	18.2	18.3	18.3 [✓]		46	15.1 - 2	15.3	15.2 [✓]	Spinal on Edge
22	17.9	18.3	18.1 [✓]	Fanned? [✓]	47	16.7	16.9	16.8 [✓]	
23	17.3	17.4	17.4 [✓]		48	17.7	17.9	17.8 [✓]	
24	15.9 - 1	16.0	15.9 [✓]		49	16.8	16.6	16.7	Long
25	18.0	18.3	18.2 [✓]		1650	18.0	18.2	18.1 [✓]	
26	15.2 - 3	15.5	15.4 [✓]	} Spinal on Edge Pair [✓]	51	15.7 - 1	15.8	15.8 [✓]	
27	17.6	17.9	17.7 [✓]		52	17.6	17.9	17.7 [✓]	
28	17.9	18.1	18.0 [✓]		53	16.9	16.9	16.9 [✓]	
29	18.1	18.1	18.1 [✓]		54	17.5	17.7	17.6 [✓]	
1630	17.0	17.4	17.2 [✓]		55	17.0	17.0	17.0 [✓]	
31	17.3	17.4	17.4 [✓]		56	17.4	17.4	17.4 [✓]	
32	18.1	18.2	18.1 [✓]		57	17.4	17.5	17.4 [✓]	
33	17.5	17.7	17.6 [✓]		58	17.5	17.9	17.7 [✓]	
34	18.0	17.7	17.8 [✓]		59	17.6	17.9	17.7 [✓]	
35	17.3	17.1	17.2 [✓]		1660	18.0	17.9	18.0 [✓]	
36	17.2	17.0	17.1 [✓]		61	17.9	17.8	17.9 [✓]	
37	17.9	18.0	17.9 [✓]		62	17.5	17.8	17.6 [✓]	(*) NF
38	17.4	17.7	17.6 [✓]		63	17.9	18.0	17.9 [✓]	
39	16.3	16.4	16.3 [✓]		64	18.1	18.1	18.1 [✓]	
1640	17.7	17.9	17.8 [✓]		65	18.0	18.1	18.0 [✓]	
1641	17.5	17.3	17.4 [✓]		1666	18.2	18.2	18.2 [✓]	

1667	17.7	17.9	17.8 [✓]		1692	17.7	17.8	17.7 [✓]	* NF [✓]
68	17.9	17.9	17.9 [✓]		93	17.2	17.5	17.4 [✓]	
69	17.0	17.1	17.1 [✓]		94	17.2	17.1	17.1 [✓]	
1670	18.2	18.2	18.2 [✓]		95	16.7	16.9	16.8 [✓]	
71	17.6	17.8	17.7 [✓]		96	17.0	16.9	17.0 [✓]	
72	17.7	18.0	17.8 [✓]		97	18.1	17.9	18.0 [✓]	
73	17.7	17.9	17.8 [✓]		98	18.2	18.1	18.1 [✓]	
74	16.3	16.1	16.2 [✓]		99	16.7	17.0	16.8 [✓]	
75	18.0	18.0	18.0 [✓]		1700	15.0 15.0	15.4 15.1	15.0 [✓]	Spin on Edge!
76	16.8	16.8	16.8 [✓]		01	16.6	16.5	16.5 [✓]	
77	17.3	17.6	17.5 [✓]		02	17.7	17.9	17.8 [✓]	
78	17.5	17.8	17.6 [✓]	but * SP [✓]	03	17.5	17.5	17.5 [✓]	
79	18.2	18.1	18.1 [✓]		04	17.5	17.7	17.6 [✓]	
1680	18.0	18.0	18.0 [✓]		05	18.1	18.0	18.0 [✓]	few web? } Pair
81	17.2 17.4	17.2 17.1	17.2 [✓]		06	16.8	16.7	16.7 [✓]	
82	18.2	17.9	18.0 [✓]		07	18.0	17.8	17.9 [✓]	
83	17.9	18.0	17.9 [✓]		08	18.1	18.0	18.0 [✓]	
84	18.0	17.9	18.0 [✓]		09	16.9	17.1	17.0 [✓]	
85	16.6	16.4	16.5 [✓]		1710	17.0	17.2	17.1 [✓]	
86	16.5	16.4	16.5 [✓]		11	18.0	17.9	17.9 [✓]	
87	17.1	17.0	17.0 [✓]		1712	17.1	17.1	17.1 [✓]	
88	17.8	17.9	17.9 [✓]		N947	15.0 15.0	15.0 15.0	15.0 [✓]	
89	17.6	17.7	17.6 [✓]						
1690	17.4	17.5	17.5 [✓]						
1691	17.5	17.8	17.6 [✓]						

Square 20

1713	17.8	18.0	17.9 [✓]
14	17.3	16.9	17.1 [✓]
15	17.8	18.0	17.9 [✓]
16	17.6	17.9	17.8 [✓]
17	16.7	16.6	16.7 [✓]
18	18.0	18.1	18.0 [✓]
19	18.0	17.9	17.9 [✓]
1720	17.3	17.0	17.2 [✓]
21	18.1	17.9	18.0 [✓]
22	17.9	17.8	17.9 [✓]
23	17.7	17.8	17.8 [✓]
24	17.5	17.1	17.3 [✓]
25	17.4	17.0	17.2 [✓]
26	17.8	17.9	17.9 [✓]
27	18.0	17.9	18.0 [✓]
28	17.5	17.7	17.6 [✓]
29	18.1	18.0	18.1 [✓]
1730	17.8	17.8	17.8 [✓]
31	17.5	17.5	17.5 [✓]
32	17.1	16.8	17.0 [✓]
33	17.9	17.9	17.9 [✓]
34	17.6	17.8	17.7 [✓]
35	17.0 17.2	16.8 16.6	16.9 [✓]
1736	18.1	18.1	18.1 [✓]

1737	17.9	17.9	17.9 [✓]
38	17.7	17.8	17.7 [✓]
39	17.8	17.8	17.8 [✓]
1740	16.9	16.6	16.8 [✓]
41	17.4 17.5	17.4 17.5	17.4 [✓]
42	17.5 17.6	17.5 17.0	17.4 [✓]
43	16.4 16.8	15.8 16.1	16.3 [✓]
44	17.9	17.8	17.9 [✓]
45	16.6	16.5	16.6 [✓]
46	18.0	17.9	17.9 [✓]
47	17.9	17.9	17.9 [✓]
48	17.7	17.7	17.7 [✓]
49	17.8	17.8	17.8 [✓]
1750	17.0	16.6	16.8 [✓]
1751	17.7	17.8	17.8 [✓]
N 966	115.0	115.0	115.0 [✓]

Square 21

1752	16.3	15.7	16.0 [✓]
53	17.8	17.8	17.8 [✓]
54	17.6	17.3	17.4 [✓]
55	18.1	18.1	18.1 [✓]
56	18.1	17.8	17.9 [✓]
57	17.0	16.9	17.0 [✓]
58	16.7	16.2	16.5 [✓]
1759	17.7	17.0	17.4 [✓]

*sf[✓]

neb?

(bt.*NP)

1760 18.2 18.2 18.2✓

61 18.0 17.9 17.9✓

62 18.1 17.9 18.0✓

63 17.1 16.9 17.0✓

64 17.5 17.2 17.4✓

65 18.0 18.0 18.0✓

66 17.3 17.4 17.3✓

67 17.7 17.2 17.4✓

68 17.9 18.0 17.9✓

69 17.2 16.8 17.0✓

1770 17.0 16.8 16.9✓

71 17.9 18.0 18.0✓

72 17.2 16.9 17.1✓

73 17.6 17.0 17.3✓

74 17.7 17.9 17.8✓

75 18.2 18.1 18.2✓

76 16.5 16.0 16.3✓

77 16.2 15.6 15.9✓

78 17.9 18.0 18.0✓

79 17.8 17.8 17.8✓

1780 17.0 17.0 17.0✓

81 17.9 17.7 17.8✓

82 18.1 18.1 18.1✓

1783 17.6 17.3 17.5✓

N 872 115.0 115.0 115.0✓

Square 22

1784 18.0 17.8 17.9✓

85 16.7 16.9 16.8✓

86 15.5 15.9 15.7✓

87 17.7 17.8 17.8✓

88 17.0 17.4 17.2✓

89 18.1 18.0 18.1✓

~~1790~~ ~~17.8~~ ~~17.8~~ ~~17.8~~ neb:

91 15.7 15.6 15.6✓

92 17.5 17.5 17.5✓

93 15.6 15.7 15.7✓

94 15.6 15.7 15.6✓

95 17.2 16.8 17.0✓

96 18.1 18.1 18.1✓

97 18.2 18.0 18.1✓

98 17.7 17.8 17.7✓

99 16.8 17.1 17.0✓

1800 18.0 18.1 18.1✓

01 17.8 17.9 17.8✓

02 17.7 17.9 17.8✓

03 17.9 17.9 17.9✓

04 18.1 17.9 18.0✓ neb:

05 17.9 17.8 17.9✓ neb:

06 17.9 17.8 17.8✓

1807 17.5 17.7 17.6✓

1808	18.1	18.1	18.1 [✓]		1832	18.0	17.9	17.9 [✓]	
09	17.3	17.2	17.3 [✓]		33	17.7	17.7	17.7 [✓]	
1810	17.7	17.8	17.8 [✓]		34	17.8	17.8	17.8 [✓]	Funnreb?
11	17.5	17.7	17.6 [✓]		35	17.6	17.6	17.6 [✓]	
12	17.4	17.8	17.6 [✓]		36	17.7	17.9	17.8 [✓]	
13	17.9	17.9	17.9 [✓]		37	18.2	17.9	18.0 [✓]	
14	17.8	17.7	17.7 [✓]	*SF [✓]	38	17.0	17.1	17.1 [✓]	
15	17.8	17.9	17.8 [✓]		39	16.8	16.6	16.7 [✓]	
16	18.0	17.9	17.9 [✓]		1840	17.6	17.7	17.6 [✓]	
17	18.2	18.1	18.2 [✓]		41	17.7	17.9	17.8 [✓]	
18	17.6	17.6	17.6 [✓]		42	17.3	17.5	17.4 [✓]	} Pair [✓]
19	18.0	18.0	18.0 [✓]		43	17.8	17.8	17.8 [✓]	
1820	17.8	17.9	17.9 [✓]		44	16.6	17.0	16.8 [✓]	
21	18.2	18.0	18.1 [✓]		45	18.0	18.0	18.0 [✓]	
22	17.7	17.8	17.8 [✓]		46	18.3	18.0	18.1 [✓]	
23	17.7	17.9	17.8 [✓]		47	18.1	17.9	18.0 [✓]	
24	17.5	17.5	17.5 [✓]		48	17.9	17.8	17.8 [✓]	
25	18.0	17.8	17.9 [✓]		49	18.0	17.7	17.9 [✓]	
26	17.6	17.7	17.7 [✓]		1850	17.5	17.7	17.6 [✓]	
1827	17.9	17.9	17.9 [✓]		51	17.6	17.7	17.6 [✓]	
Square 23					52	17.9	17.8	17.9 [✓]	
1828	18.3	18.2	18.2 [✓]		53	17.5	17.6	17.6 [✓]	
29	18.0	17.9	17.9 [✓]		54	17.0	17.0	17.0 [✓]	
1830	17.9	17.7	17.8 [✓]		55	16.3 16.7	16.4 16.0	16.4 [✓]	
1831	17.6	17.3	17.4 [✓]		1856	18.1	18.0	18.1 [✓]	1856? Pair [✓]

1857	15.4	15.1	15.2 [✓]	1852	17.9	17.8	17.9 [✓]
58	17.9	17.8	17.9 [✓]	83	17.7	17.7	17.7 [✓]
59	17.7	17.8	17.8 [✓]	84	18.0	17.8	17.9 [✓]
1860	15.4 15.8	15.0 15.2	15.3 [✓]	*SF [✓] 85	17.6	17.4	17.5 [✓]
61	17.2	17.4	17.3 [✓]	86	17.0	16.8	16.9 [✓]
62	18.0	17.8	17.9 [✓]	87	18.1	17.9	18.0 [✓]
63	17.3	17.0	17.1 [✓]	88	18.1	17.9	18.0 [✓]
64	17.3	17.1	17.2 [✓]	89	17.7	17.6	17.6 [✓]
65	17.4	17.2	17.3 [✓]	1890	17.8	17.7	17.7 [✓]
66	17.3	17.2	17.2 [✓]	91	18.1	18.0	18.0 [✓]
67	17.7	17.3	17.5 [✓]	92	17.3	17.5	17.4 [✓]
68	18.0	17.8	17.9 [✓]	93	18.0	18.0	18.0 [✓]
69	18.2	17.9	18.1 [✓]	94	16.6 16.8	16.5 16.3	16.6 [✓]
1870	17.8	17.9	17.8 [✓]	1895	16.8 17.0	16.8 16.5	16.8 [✓]
71	16.7	16.4	16.5 [✓]	Square 24			
72	18.1	17.9	18.0 [✓]	1896	17.8	17.8	17.8 [✓]
73	18.3	18.0	18.2 [✓]	97	17.4	17.5	17.5 [✓]
74	17.9	17.8	17.9 [✓]	1898	18.0		
75	17.4	17.3	17.4 [✓]	99	16.9	16.5	16.7 [✓]
76	18.2	18.1	18.1 [✓]	1900	17.9	17.9	17.9 [✓]
77	17.1	17.1	17.1 [✓]	01	17.2	17.2	17.2 [✓]
78	16.3	16.4	16.4 [✓]	02	17.4	17.5	17.4 [✓]
79	16.2	16.2	16.2 [✓]	03	17.8	17.7	17.7 [✓]
1880	17.2	16.8	17.0 [✓]	04	17.9	17.9	17.9 [✓]
1881	18.1	17.9	18.0 [✓]	1905	15.4	15.2	15.3 [✓]

1906	18.2	18.0	neb. ✓	1931	17.6	17.6	17.6 ✓	
1907	18.3		neb. ✓	32	16.4	16.0	16.2 ✓	Spiral on Edge
08	17.6	17.7	17.6 ✓	33	17.9	17.8	17.8 ✓	
09	17.8	17.7	17.7 ✓	34	18.1	17.8	17.9 ✓	
1910	18.1	18.0	18.0 ✓	35	17.8	17.7	17.8 ✓	
11	17.9	17.8	17.9 ✓	36	18.2	18.0	18.1 ✓	
12	18.0	17.9	18.0 ✓	37	17.9	17.8	17.9 ✓	
13	18.3	17.9	18.1 ✓	38	17.8	17.6	17.7 ✓	
14	17.6	17.8	17.7 ✓	39	17.4	17.1	17.2 ✓	
15	16.3 16.2	15.8 15.6	16.0 ✓	1940	16.9 16.7	16.2 16.0	16.5 ✓	
16	16.9 17.4	16.8 16.7	16.9 ✓	41	17.1	16.9	17.0 ✓	
17	17.6	17.2	17.4 ✓	42	17.8	17.9	17.9 ✓	
18	17.8	17.9	17.9 ✓	43	18.1	18.0	18.0 ✓	
19	17.6	17.8	17.7 ✓	44	18.0			
1920	17.4	17.5	17.4 ✓	45	18.1	18.0	18.1 ✓	
21	17.7	17.5	17.6 ✓	46	17.3	17.6	17.4 ✓	
22	16.5 16.4	15.9 15.8	16.2 ✓	47	17.6	17.7	17.6 ✓	
23	18.0	17.8	17.9 ✓	48	18.3	18.1	18.2 ✓	
24	16.9	17.1	17.0 ✓	49	17.2	17.6	17.4 ✓	
25	17.8	17.7	17.7 ✓	1950	18.1	17.9	18.0 ✓	
26	17.3	17.5	17.4 ✓	51	17.3	17.0	17.1 ✓	
27	15.9 15.7	15.3 15.2	15.5 ✓	52	18.1	18.0	18.0 ✓	
28	17.8	17.6	17.7 ✓	53	18.3	18.1	18.2 ✓	
29	17.5	17.5	17.5 ✓	54	17.6	17.5	17.5 ✓	
1930	17.3	17.1	17.2 ✓	1956	15.0 15.0	15.0 15.0	15.0 ✓	

1939phae.proj.2380B

on ✓

Square 25

1956	17.7	17.9	17.8 ✓
1957	17.7	17.9	17.8 ✓
1957w	17.3	17.5	17.4 ✓
1958	16.9	16.9	16.9 ✓
1958w	17.1	16.7	16.9 ✓
1959	17.5	17.8	17.6 ✓
1959w	17.2	17.0	17.1 ✓
1960	17.3	16.8	17.1 ✓
61	16.8	16.1	16.4 ✓
62	16.3	16.0	16.1 ✓
63	17.7	17.9	17.8 ✓
64	17.6		
65	17.8	17.9	17.8 ✓
66	17.5	17.7	17.6 ✓
67	17.9	18.0	17.9 ✓
68	17.2	16.9	17.0 ✓
69	17.8	17.7	17.7 ✓
1970	17.9		
71	17.8	17.7	17.8 ✓
72	17.0	16.6	16.8 ✓
73	15.0	15.0	15.0 ✓
74	15.2	15.0	15.1 ✓
75	15.5	15.2	15.3 ✓
76	17.8	17.1	17.4 ✓
77	17.7	17.5	17.6 ✓
78	16.9	16.9	16.9 ✓
	16.5	16.1	
1979	17.1	16.2	16.5 ✓

1980	17.6	17.6	17.6 ✓
81	15.2	15.1	15.1 ✓
82	17.0	17.3	17.2 ✓
83	15.0	15.0	15.0 ✓
84	17.0	16.9	16.9 ✓
85	16.6	16.3	16.4 ✓
86	16.8	16.1	16.5 ✓
87	16.6	16.2	16.4 ✓
88	16.7	16.2	16.4 ✓
89	17.5	17.6	17.5 ✓
1990	17.3	17.1	17.2 ✓
91	18.0	17.8	17.9 ✓
92	15.7	15.2	15.4 ✓
93	17.1	16.6	16.9 ✓
94	16.3	16.0	16.2 ✓
95	17.2	17.6	17.4 ✓
96	17.9	18.0	17.9 ✓
97	16.8	17.0	16.9 ✓
98	16.9	16.8	16.8 ✓
99	17.8	17.5	17.7 ✓
2000	17.9	17.9	17.9 ✓
01	17.2	17.2	17.2 ✓
02	17.3	17.2	17.2 ✓
03	17.8	17.9	17.9 ✓
	16.2	16.0	
2004	16.3	15.6	16.0 ✓

2005	16.1	15.9	16.0 [✓]
06	15.9	15.6	15.8 [✓]
07	16.5	15.8	16.1 [✓]
08	17.9	17.8	17.8 [✓]
2009	16.9	16.8	16.9 [✓]

7% of differences
7.497

A 20280

July '39

Counted stars have lines

(14.9) RAP

(15.3) RAP

15.5

(15.8) RAP

16.0

16.2

(16.5) RAP

16.6

16.8

(17.1) CDB
FWW
RAP

17.3

(17.8)⁶ FWW
RAP

17.8 changed to 17.6

17.8

Interpolations made by FWW

18.0

18.3

(18.4) CDB
RAP

A 20280

22 50 -10

Square 1						
	<u>C.D.B.</u>	<u>F.W.W.</u>	<u>mean</u>			
1	17.5	17.8	17.6 [✓]	22	17.0	17.0 17.0 [✓]
2	16.1	15.9	16.0 [✓]	23	16.4	16.0 16.2 [✓]
3	17.2	17.0	17.1 [✓]	24	17.8	17.9 17.9 [✓]
4	17.6	17.7	17.7 [✓]	25	17.5	17.8 17.6 [✓]
5	17.3	17.0	17.2 [✓]	N 7378	15.0	15.0 15.0 [✓]
6	17.8	17.7	17.7 [✓]	Square 2		
7	17.4	17.2	17.3 [✓]	26	15.8	15.5 15.7 [✓]
8	17.9	17.8	17.8 [✓]	27	17.5	17.8 17.6 [✓]
9	17.8	18.0	17.9 [✓]	28	17.6	17.8 17.7 [✓]
10	17.7	17.8	17.7 [✓]	29	17.4	17.1 17.3 [✓]
11	17.5	17.3	17.4 [✓]	30	17.4	17.1 17.2 [✓]
12	16.4 16.7	16.6 15.9	16.4 [✓]	31	17.7	17.8 17.7 [✓]
13	17.3	17.6	17.4 [✓]	32	17.7	17.7 17.7 [✓]
14	18.0	17.7	17.9 [✓]	33	17.5	17.4 17.4 [✓]
15	17.5	18.0	17.8 [✓]	34	17.3	17.2 17.3 [✓]
16	17.6	17.7	17.7 [✓]	35	16.7	16.8 16.8 [✓]
17	17.2	17.1	17.2 [✓]	36	15.7	15.6 15.7 [✓]
18	17.7	17.5	17.6 [✓]	37	17.8	17.8 17.8 [✓]
19	17.2	17.3	17.3 [✓]	38	18.1	17.9 18.0 [✓]
20	17.1	17.5	17.3 [✓]	*NF [✓] 39	17.8	17.6 17.7 [✓]
21	16.9	17.0	17.0 [✓]	40	17.4	17.3 17.4 [✓]
				41	18.1	18.0 18.1 [✓]

Spiral on E
*SF[✓]

42	16.9	16.8	16.8 [✓]	66	17.8	17.8	17.8 [✓]	90
43	16.8	16.8	16.8 [✓]	67	17.2	17.2	17.2 [✓]	91
44	17.4	17.6	17.5 [✓]	68	16.9	17.0	16.9 [✓]	92
45	17.5	17.6	17.5 [✓]	69	15.8	15.7	15.8 [✓]	93
46	16.9	17.0	17.0 [✓]	70	17.6	17.5	17.5 [✓]	94
47	16.1	15.8	15.9 [✓]	71	17.5	17.6	17.6 [✓]	95
48				72	17.1	16.9	17.0 [✓]	96
49	17.4	17.1	17.2 [✓]	73	17.2	17.1	17.1 [✓]	97
50	17.2	16.9	17.1 [✓]	74	17.5	17.2	17.4 [✓]	98
51	17.6	17.3	17.4 [✓]	75	18.0	18.0	18.0 [✓]	99
52	17.2	17.2	17.2 [✓]	Square 4				100
53	16.3	16.1	16.2 [✓]	76	17.2	17.1	17.1 [✓]	101
54	15.9	15.7	15.8 [✓]	77	17.4	17.1	17.2 [✓]	102
Square 3				78	17.7	17.5	17.6 [✓]	103
55	17.4	17.7	17.5 [✓]	79	18.0	17.9	17.9 [✓]	104
56	17.9	17.8	17.8 [✓]	80	17.5	17.7	17.6 [✓]	105
57	17.4	17.7	17.5 [✓]	81	17.6	17.5	17.6 [✓]	106
58	17.2	17.4	17.3 [✓]	82	16.4	16.5	16.5 [✓]	107
59	15.7	15.7	15.7 [✓]	83	16.7	16.5	16.6 [✓]	108
60	17.6	17.8	17.7 [✓]	84	17.5	17.7	17.6 [✓]	109
61	16.6	16.7	16.6 [✓]	85	18.0	18.0	18.0 [✓]	110
62	17.2	17.2	17.2	86	17.9	18.0	18.0 [✓]	111
63	17.0	17.1	17.1 [✓]	87	18.0	17.8	17.9 [✓]	112
64	17.1	17.0	17.0 [✓]	88	17.6	17.7	17.7 [✓]	113
65	17.1	16.9	17.0 [✓]	89	18.1	17.8	18.0 [✓]	114

Spiral
edge

Square 4

Square 3

Fw neb?
Pair
A19.47

neb?

90	18.0	17.8	17.9 [✓]		115	17.4	17.2	17.3 [✓]
91	17.4	17.1	17.3 [✓]		116	17.4	17.4	17.4 [✓]
92	17.3	17.0	17.2 [✓]		117	17.3	17.0	17.1 [✓]
93	17.6	17.7	17.7 [✓]		118	17.4	17.4	17.4 [✓]
94	17.2	17.2	17.2 [✓]		119	17.2	16.9	17.0 [✓]
95	17.9	18.0	18.0 [✓]		120	17.3	17.4	17.3 [✓]
96	17.7	17.9	17.8 [✓]		Square 5			
97	16.9	16.6	16.7 [✓]	97 } Pair 102 }	121	17.4	17.8	17.6 [✓]
98	17.9	17.8	17.8 [✓]		122	17.1	17.0	17.0 [✓]
99	16.4	16.6	16.5 [✓]		123	17.2	17.0	17.1 [✓]
100	16.9	16.8	16.9 [✓]		124	17.4	17.7	17.5 [✓]
101	18.3	18.1	18.2 [✓]		125	17.3	17.7	17.5 [✓]
102	18.0	17.8	17.9 [✓]		126	17.5	17.6	17.6 [✓]
103	17.6	17.8	17.7 [✓]		127	17.5	17.7	17.6 [✓]
104	17.3	17.2	17.2 [✓]		128	17.1	16.5	16.8 [✓]
105	17.8	17.6	17.7 [✓]		129	17.9	17.9	17.9 [✓]
106	17.2	17.2	17.2 [✓]		130	17.3	17.0	17.1 [✓]
107	17.7	17.5	17.6 [✓]		131	17.8	17.8	17.8 [✓]
108	17.0	17.1	17.1 [✓]		132	17.7	17.9	17.8 [✓]
109	17.3	17.4	17.4 [✓]		133	17.4	17.0	17.2 [✓]
110	17.9	17.7	17.8 [✓]		134	17.7	17.7	17.7 [✓]
111	18.0	18.0	18.0 [✓]		135	17.1	17.0	17.0 [✓]
112	18.0	17.9	17.9 [✓]		136	17.8	17.7	17.7 [✓]
113	17.2	17.1	17.2 [✓]		137	17.3	17.5	17.4 [✓]
114	17.5	17.7	17.6 [✓]		138	17.9	17.8	17.8 [✓]

139	17.2	17.3	17.3 [✓]
140	17.5	17.5	17.5 [✓]
141	17.9	17.8	17.8 [✓]
142	17.2	17.0	17.1 [✓]
143	17.5	17.7	17.6 [✓]
144	17.4	17.5	17.5 [✓]
145	17.2	17.0	17.1 [✓]

Square 6

146	17.5	17.7	17.6 [✓]
147	17.6	17.9	17.8 [✓]
148	17.4	17.4	17.4 [✓]
149	17.4	17.2	17.3 [✓]
150	17.0	16.9	16.9 [✓]
151	17.5	17.4	17.5 [✓]
152	17.8	17.8	17.8 [✓]
153	17.4	17.7	17.6 [✓]
154	17.9 17.5	18.0 18.0	17.9 [✓]
155	17.2	16.9	17.1 [✓]
156	17.1	17.2	17.2 [✓]
157	17.4	17.3	17.3 [✓]
158	17.9	18.2	18.0 [✓]
159	17.7	17.6	17.7 [✓]
160	17.6	17.7	17.6 [✓]
161	17.3	17.7	17.5 [✓]
162	17.5	17.5	17.5 [✓]

163	17.7	17.5	17.6 [✓]
164	17.5	17.7	17.6 [✓]
165	17.4	17.6	17.5 [✓]
166	17.4	17.6	17.5 [✓]
167	17.4	17.8	17.6 [✓]
168	18.0	18.0	18.0 [✓]
169	17.9	17.9	17.9 [✓]
170	17.8	17.7	17.8 [✓]
171	17.7	17.8	17.7 [✓]
172	17.6	17.7	17.6 [✓]
N7371	115.0	115.0	115.0 [✓]
±1451	15.3	15.0	15.1 [✓]

*NF

no SN 1954
*SP

Square 7

*SP[✓]

173	18.1	17.9	18.0 [✓]
174	16.9	17.0	17.0 [✓]
175	17.4	17.4	17.4 [✓]
176	17.8	17.8	17.8 [✓]
177	17.7	17.6	17.7 [✓]
178	17.3		
179	17.1	16.7	16.9 [✓]
180	17.2 17.2	16.6 16.6	16.9 [✓]
181	17.3	17.3	17.3 [✓]
182	17.2	17.1	17.2 [✓]
183	17.6	17.6	17.6 [✓]
184	18.0	18.0	18.0 [✓]

Spinal
edge*F[✓]
no SN 1954

185	16.9	16.9	16.9 [✓]		209	18.3	17.9	18.1 [✓]	
186	17.8	17.9	17.9 [✓]		210	16.7	17.1	16.9 [✓]	
187	17.7	17.9	17.8 [✓]		211	16.9	17.2	17.1 [✓]	
188	17.6	17.7	17.6 [✓]		212	17.0 16.6	17.0 17.1	16.9 [✓]	
189	17.9	17.8	17.9 [✓]		213	17.6	17.3	17.4 [✓]	
190	17.2	16.9	17.0 [✓]		214	17.2	17.1	17.1 [✓]	
191	16.9	16.7	16.8 [✓]	Not measured Star sf 9A19547	215	17.7	17.7	17.7 [✓]	
192	14.9 14.9	15.1 15.2	15.0 [✓]		216	18.0	17.9	18.0 [✓]	
193	17.1	16.9	17.0 [✓]		217	17.9	18.0	17.9 [✓]	
194	17.8	17.7	17.7 [✓]		218	17.5	17.6	17.6 [✓]	
195	16.7	16.6	16.6 [✓]	Spinal on Edge	219	17.8	17.5	17.8 ⁵	From comparison with other neb.
Square 8					220	17.9	17.8	17.8 [✓]	
196	17.4	17.7	17.6 [✓]		221	17.9	18.0	17.9 [✓]	
197	17.1	17.1	17.1 [✓]		222	17.3	17.4	17.4 [✓]	
198	17.8	17.4	17.6 [✓]		223	17.7	17.5	17.6 [✓]	
199	17.6	17.6	17.6 [✓]		224	17.8	17.9	17.9 [✓]	From neb? *P
200	15.0	15.0	15.0 [✓]	Spinal on Edge	225	15.4 + 3	15.1	15.3 [✓]	(FSB)
201	15.4 - 3	15.7	15.5 [✓]		226	18.0	17.9	18.0 [✓]	
202	16.9	17.0	17.0 [✓]		227	17.9	17.7	17.8 [✓]	
203	17.6	17.9	17.7 [✓]		228	17.5	17.7	17.6 [✓]	
204	17.8	17.5	17.6 [✓]		229	17.8	18.0	17.9 [✓]	*NP
205	14.9	15.0	15.0 [✓]		230	16.9 16.6	16.9 17.1	16.9 [✓]	
206	15.5 16.0 + 4	15.6 15.2	15.6 [✓]	Spinal on Edge	231	17.4	17.4	17.4 [✓]	
207	17.0	17.0	17.0 [✓]	bt. * NP	232	18.1	18.0	18.1 [✓]	
208	17.2	17.3	17.2 [✓]	From neb?	233	18.2	18.0	18.1 [✓]	

234	18.2	17.9	17.9	few neb?	258	16.7	16.9	16.8
235	17.4	17.4	17.4		259	17.2	17.2	17.2
236	17.3	17.1	17.2		260	17.1	17.1	17.1
237	17.7	17.5	17.6		261	17.6	17.4	17.5
238	17.8	17.6	17.7		262	18.0	18.0	18.0
239	17.6	17.8	17.7		263	17.8	17.9	17.8
240	18.0	18.0	18.0		264	17.9	17.9	17.9
241	17.5	17.9	17.7		265	15.6 - 1	15.7	15.7
Square 9					266	18.2	18.0	18.1
242	17.7	17.6	17.6		267	16.5	16.5	16.5
243	17.5	17.1	17.3		268	17.5	17.7	17.6
244	18.0	17.8	17.9		269	17.6	17.8	17.7
245	17.6	17.7	17.7		N7425	115.0	115.0	115.0
246	17.9	17.8	17.8		Square 10			
247	17.8	17.7	17.7		270	17.4	17.8	17.6
248	18.0	17.9	18.0		271	17.6	17.8	17.7
249	17.5			neb? *P	272	17.1	17.0	17.1
250	17.6	17.7	17.7		273	17.5	17.8	17.6
251	17.3	17.2	17.2		274	17.4	17.8	17.6
252	17.2	17.5	17.3	Spiral * SP on Edge	275	17.7	18.0	17.9
253	17.2	17.2	17.2	* NP	276	17.6	17.9	17.8
254	17.9	17.8	17.8		277	17.9	18.1	18.0
255	18.3	18.0	18.1		278	17.2	17.0	17.1
256	17.7	17.6	17.6		279	17.6	17.2	17.4
257	17.7	17.6	17.7		280	17.4	17.2	17.3

Spiral on Edge

281	16.9 17.0	16.6 16.5	16.8 [✓]		306	18.2	18.3	18.2 [✓]	
282	16.8	17.0	16.9 [✓]	FWWneb?	307	17.1	16.9	17.0 [✓]	} Pair
283	17.7	17.8	17.7 [✓]		308	17.3	17.1	17.2 [✓]	
284	17.1	17.0	17.0 [✓]		309	18.3	18.1	18.2 [✓]	
285	18.0	18.0	18.0 [✓]		310	17.2	17.1	17.1 [✓]	
286	16.4	16.7	16.5 [✓]		311	17.9	17.8	17.8 [✓]	
287	17.8			neb?	312	17.6	17.8	17.7 [✓]	
288	17.0	17.0	17.0 [✓]		313	17.2	17.1	17.1 [✓]	
289	17.8	17.8	17.8 [✓]		314	18.2	17.9 18.0	18.0 [✓]	
290	17.7	17.8	17.8 [✓]		315	17.5	17.8	17.6 [✓]	
291	17.4	17.7	17.5 [✓]		316	17.1	16.7	16.9 [✓]	
292	18.2	18.3	18.2 [✓]	neb?	317	17.4	17.7	17.5 [✓]	*NF
293	17.5	17.6	17.5 [✓]		318	16.6	16.5	16.6 [✓]	
294	17.7	17.3	17.5 [✓]		319	17.4	17.7	17.5 [✓]	319 } Pair
295	17.3	17.1	17.2 [✓]		320	17.7	17.9	17.8	327 } Pair
296	17.7	18.0	17.8 [✓]		321	16.9	17.0	17.0 [✓]	FWWneb?
297	18.3	18.1	18.2 [✓]		322	17.9	17.8	17.9 [✓]	
298	17.6	17.9	17.7 [✓]		323	17.2	17.6	17.4 [✓]	
299	17.2	17.0	17.1 [✓]		324	17.0	17.0	17.0	
300	17.1	16.9	17.0 [✓]		325	17.2	17.1	17.2 [✓]	
301	17.2	17.0	17.1 [✓]		326	17.7	17.5	17.6 [✓]	
302	17.4	17.1	17.2 [✓]		327	17.3	17.5	17.4 [✓]	
303	18.2	18.3	18.3 [✓]	303 } Pair 309 }	Square 11				
304	17.9	17.8	17.8 [✓]		328	17.8	17.7	17.8 [✓]	*SF
305	17.5	17.6	17.5 [✓]		329	17.6	17.2	17.4 [✓]	

330	15.5 15.7	15.0 15.0	15.3✓	Square 12				
331	17.0	17.1	17.1✓	353	16.9	16.8	16.8✓	16.9
332	17.4	17.6	17.5✓	354	17.4	17.2	17.3✓	
333	16.9	16.9	16.9✓		17.9	18.0		
334	17.6	17.7	17.6✓	355	17.7	18.3	18.0✓	
335	17.9	17.7	17.8✓	356	17.3	17.5	17.4✓	17.4
336	16.9	17.1	17.0✓	357	15.9 -2	16.1	16.0✓	
337	17.4	17.1	17.3✓	358	17.6	17.5	17.5✓	
338	17.7	17.8	17.8✓	359	17.7	17.6	17.6✓	17.8
339	17.2	17.2	17.2✓	360	17.7	17.3	17.5✓	
340	17.7	17.7	17.7✓	361	17.2	17.1	17.1✓	
341	18.0	17.6	17.8✓	362	17.6	17.5	17.6✓	17.9
342	17.2	17.0	17.1✓	363	17.8	17.6	17.7✓	
343	17.3	17.4	17.3✓		16.4	16.6		
343a	18.1	18.2	18.1✓	364	16.1	16.8	16.5✓	
344	17.2	17.8 17.7	17.5✓	F 343	365	18.0	18.3	18.1✓
345	17.5	17.7	17.6✓	366	17.9	17.8	17.8✓	
346	17.6	17.9	17.8✓	367	16.5	16.6	16.5✓	
347	17.5	17.9	17.7✓	368	17.3	17.5	17.4✓	
348	17.4	17.7	17.5✓	369	17.2	17.3	17.2✓	
349	17.2	17.2	17.2✓	370	17.1	17.1	17.1✓	
350	17.0	17.1	17.0✓	371	17.1	17.0	17.1✓	
351	17.1	17.2	17.1✓	372	17.2	17.2	17.2✓	17.3
352	17.3	17.3	17.3✓	373	17.5	17.2	17.4✓	372 } Pair 374 } 29A19547 200.1 Spinal on 2
				374	17.1	16.9	17.0✓	16.8

Square 13

					399	16.8	16.7	16.7 [✓]	16.7
375	17.7	17.9	17.8 [✓]	17.8	400	17.5	17.3	17.4 [✓]	17.5 [✓] *NF [✓]
376	16.9	16.9	16.9 [✓]		401	17.2	17.3	17.2 [✓]	
377	17.0	17.1	17.0 [✓]	Spiral on edge	402	18.0	17.7	17.8 [✓]	
378	15.6	-2 15.8	15.7 [✓]	Spiral	403	15.9	0 15.9	15.9 [✓]	Spiral on Edge
379	18.2	18.3	18.2 [✓]	18.0	404	16.3	16.1	16.2 [✓]	16.4
380	15.9	-1 16.0	16.0 [✓]		405	16.9	16.8	16.8 [✓]	17.1
381	17.2	17.2	17.2 [✓]	17.5	406	17.7	17.6	17.7 [✓]	FWWneb?
382	17.3	17.2	17.3 [✓]		407	17.2	17.1	17.1 [✓]	
383	17.0	16.9	17.0 [✓]		408	17.6	17.7	17.7 [✓]	
384	17.9	17.6	17.7 [✓]	17.9	409	18.2	18.3	18.2 [✓]	18.0
385	16.9	16.8	16.8 [✓]	17.1	410	17.6	17.6	17.6 [✓]	17.8 Pair
386	17.7	17.7		neb?	411	17.7	17.6	17.7 [✓]	17.9
387	17.2	17.2	17.2 [✓]	17.5	412	18.1	18.0	18.0 [✓]	18.0
388	17.1	17.1	17.1 [✓]	17.2	413	16.5 16.7	15.9 16.0	16.3 [✓]	bet. *NP
389	17.5	17.6	17.5 [✓]	17.8	414	17.9	17.6	17.7 [✓]	
390					415	17.2	17.5	17.4 [✓]	
391	16.4 16.6	15.8 15.7	16.1 [✓]		416	17.7	17.8	17.7 [✓]	FWWneb?
392	16.9 16.9	16.8 16.3	16.7 [✓]		417	17.2	17.4	17.3 [✓]	
393	17.8	17.8	17.8 [✓]	FWWneb? N7399?	215.0 15.0	15.0 215.0	15.0 215.0	15.0 [✓]	

Square 14

394	17.0	17.1	17.0 [✓]						
395	17.8	17.8	17.8 [✓]	17.5	418	17.6	17.6	17.6 [✓]	
396	17.2	17.1	17.1 [✓]	17.1	419	17.5	17.3	17.3 [✓]	
397	17.2	17.1	17.2 [✓]		420	17.1	16.9	17.0 [✓]	
398	17.7	17.7	17.7 [✓]	17.9	421	17.6	17.3	17.4 [✓]	

422	17.5	17.5	<u>17.5</u> ✓		447	17.5	17.6	17.5✓	
423	17.3	17.3	17.3✓		448	17.5	17.3	17.4✓	
424	17.9	17.7	17.8✓		449	17.6	17.4	17.5✓	
425	17.5	17.5	17.5✓		450	17.2	17.1	17.2✓	
426	17.6	17.6	17.6✓		451	16.9	16.9	16.9✓	neb.?
427	17.7	18.0	17.9✓		452	17.9	18.0	17.9✓	
428	17.0	16.6	16.8✓		453	17.0	17.1	17.0✓	neb.?
429	17.2			neb.?	454				
430	16.3	16.2	<u>16.3</u> ✓		455	17.7	17.7	17.7✓	
431	15.0 16.1	15.7 15.3	15.5✓	(F.S.B.)	456	17.7	17.6	17.7✓	
432	17.3	17.2	17.2✓		457	17.2	17.0	17.1✓	17.2
433	17.4	17.5	17.5✓		458	17.3	17.1	17.2✓	
434	17.8	17.6	17.7✓		459	17.3	17.3	17.3✓	
435	17.2	17.2	17.2✓	double *?	460	18.0	17.8	17.9✓	
436	17.9	17.7	17.8✓		461	18.0	18.0	18.0✓	
437	17.3	17.2	17.2✓		462	17.4	17.3	17.4✓	
438	15.2 -4	15.6	15.4✓		463	16.7	16.9	16.8✓	
439	17.8	17.5	17.7✓		464	17.9	17.8	17.9✓	
440	17.5	17.5	17.5✓		465	17.2 17.6	17.3 17.1	17.3✓	
441	17.9	18.3	18.1✓		466	17.0	16.8	<u>16.9</u> ✓	
442	17.8	17.8	17.8✓		467	17.9	17.8	17.8✓	
443	17.2	17.4	17.3✓		468	17.5	17.2	17.3✓	
444	17.5	17.4	17.4✓		469	18.0	17.8	17.9✓	
445	18.1	18.0	18.1✓		470	17.0	17.0	17.0✓	
446	17.1	17.2	17.2✓		471	17.6	17.3	17.4✓	

472	16.4	16.1 15.7	16.2 [✓]	16.7	496	17.6	17.8	17.7 [✓]
473	18.1	18.2	18.1 [✓]		497	15.6	16.0	15.8 [✓]
474	17.1	17.1	17.1 [✓]		498	17.0	17.3	17.2 [✓]
475	17.4	17.2	17.3 [✓]		499	18.0	17.9	17.9 [✓]
476	16.4 16.6	16.0 16.0	16.3 [✓]	Spiral on Edge	500	16.8	16.9	16.8 [✓]
477	17.2	16.9	17.0 [✓]	Spiral on Edge	501	17.9	18.0	17.9 [✓]
478	17.1	16.9	17.0 [✓]	by comparison with 407	502	17.2	17.0	17.1 [✓]
Square 15					503	17.6	17.7	17.6 [✓]
479	17.7	17.9	17.8 [✓]		504	17.6	17.9	17.7 [✓]
480	17.7	18.0	17.9 [✓]		505	17.2	17.3	17.2 [✓]
481	17.4	17.7	17.6 [✓]		506	17.5	17.7	17.6 [✓]
482	16.1	16.3	16.3 [✓]	by comparison with 430	507	17.2	17.3	17.3 [✓]
483	17.9	17.8	17.9 [✓]		508	18.3	18.2	18.2 [✓]
484	17.5	17.7	17.6 [✓]		509	17.1	17.1	17.1 [✓]
485	17.4	17.7	17.6 [✓]	485 } pair 487 }	510	16.9	16.9	16.9 [✓]
486	16.8	16.7	16.7 [✓]		511	17.9	17.7	17.8 [✓]
487	17.7	17.8	17.7 [✓]		512	17.4	17.2	17.3 [✓]
488	17.2	17.5	17.4 [✓]		513	17.7	18.0	17.9 [✓]
489	17.0	16.9	16.9 [✓]		514			
490	17.5	17.9	17.7 [✓]		515	18.0	18.0	18.0 [✓]
491	17.2	17.0	17.1 [✓]		516	17.9	18.0	18.0 [✓]
492	17.4	17.7	17.5 [✓]		517	17.2	17.1	17.1 [✓]
493	17.4	17.8	17.6 [✓]		518	18.2	18.1	18.2 [✓]
494	17.2	17.5	17.4 [✓]		519	16.5	16.8	16.7 [✓]
495	17.5	17.8	17.7 [✓]		520	17.2	17.2	17.2 [✓]

} Pair

521	18.2	18.2	18.2 [✓]		546	17.2	17.2	17.2 [✓]	neb? [✓]
522	17.0 16.9	17.5 17.5	17.2 [✓]		547	18.1	18.1	18.1 [✓]	
523	17.6	17.8	17.7 [✓]		Square 16				
524	17.5	17.7	17.6 [✓]		548	17.9	17.8	17.8 [✓]	
525	17.9	17.8	17.8 [✓]		549	17.3	17.0	17.1 [✓]	
526	17.9	18.0	17.9 [✓]		550	16.8	16.9	16.8 [✓]	
527	18.1	17.9	18.0 [✓]		551	17.5	17.3	17.4 [✓]	
528	17.8	17.9	17.8 [✓]		552	17.6	17.5	17.5 [✓]	
529	17.1	17.2	17.1 [✓]		553	15.9	16.0	16.0 [✓]	
530	18.2	18.2	18.2 [✓]		554	17.8	18.0	17.9 [✓]	
531	17.5	17.8	17.6 [✓]		555	18.3	18.0	18.1 [✓]	
532	17.3	17.5	17.4 [✓]	FWW neb? [✓]	556	17.2	17.3	17.2 [✓]	
533	17.8	18.1	17.9 [✓]		557	17.9	18.0	17.9 [✓]	
534	17.7	18.0	17.8 [✓]		558	17.3	17.0	17.2 [✓]	
535	17.9	18.0	17.9 [✓]		559	17.2	17.1	17.1 [✓]	
536	17.5	17.6	17.6 [✓]		560	17.4	17.0	17.2 [✓]	
537	17.0	17.0	17.0 [✓]	537 } pair [✓] 539 }	561	17.0	17.0	17.0 [✓]	
538	17.7	17.8	17.7 [✓]		562	17.5	17.5	17.5 [✓]	
539	18.0	18.0	18.0 [✓]		563	17.3	17.5	17.4 [✓]	
540	17.9	17.8	17.8 [✓]		564	17.6	17.8	17.7 [✓]	
541	17.8	17.8	17.8 [✓]		565	16.1	16.1	16.1 [✓]	
542	17.7	17.7	17.7 [✓]	} Pair [✓]	566	16.9	16.9	16.9 [✓]	
543	18.1	17.9	18.0 [✓]		567	17.7	17.9	17.8 [✓]	
544	17.3	17.6	17.5 [✓]		568	17.2	17.2	17.2 [✓]	
545	18.0	18.0	18.0 [✓]		569	17.5	17.9	17.7 [✓]	

570	17.6	17.7	17.6 [✓]	595	18.0	17.9	18.0 [✓]
571	18.0	18.0	18.0 [✓]	596	17.8	17.9	17.9 [✓]
572	17.0	17.3	17.1 [✓]	597	16.9	17.0	17.0 [✓]
573	17.8	17.9	17.8 [✓]	598	17.9 18.2	17.8 17.7	17.9 [✓]
574	17.9	17.7	17.8 [✓]	599	17.2 16.8	17.0 17.4	17.1 [✓]
575	17.6	17.7	17.7 [✓]	600	17.0	17.0	17.0 [✓]
576	16.8	16.9	16.8 [✓]	601	17.5	17.4	17.5 [✓]
577	17.4	17.0	17.2 [✓]	602	17.3	17.0	17.2 [✓]
578	17.5	17.2	17.3 [✓]	603	17.4	17.6	17.5 [✓]
579	16.7	16.8	16.8 [✓]	604	17.6	17.9	17.7 [✓]
580	16.6	16.6	16.6 [✓]	605	17.6	18.0	17.8 [✓]
581	17.8	17.4	17.6 [✓]	606	17.8	18.0	17.9 [✓]
582	18.1	17.8	17.9 [✓]	607	17.3	17.5	17.4 [✓]
583	17.8	17.5	17.6 [✓]	608	17.6	17.8	17.7 [✓]
584	17.2	17.0	17.1 [✓]	609	17.1	17.2	17.2 [✓]
585	17.3	17.2	17.3 [✓]	610	17.6	17.6	17.5 [✓]
586	17.7	17.4	17.6 [✓]	611	17.6	18.0	17.8 [✓]
587	17.8	17.6	17.7 [✓]	612	17.7	17.9	17.8 [✓]
588	17.9	17.8	17.9 [✓]	Square 17			
589	17.6	17.3	17.4 [✓]	613	17.3	17.7	17.5 [✓]
590	18.0	17.9	17.9 [✓]	* NF 614	17.7	17.7	17.7 [✓]
591	17.3	17.3	17.3 [✓]	615	17.8	17.6	17.7 [✓]
592	17.2	17.6	17.4 [✓]	616	17.9	17.8	17.9 [✓]
593	17.4	17.8	17.6 [✓]	617	17.5	17.7	17.6 [✓]
594	16.5	16.9	16.7 [✓]	618	17.8	17.8	17.8 [✓]

} pair

617	17.0	17.1	17.0 [✓]		644	17.2	17.3	17.2 [✓]	
620	16.9	17.0	16.9 [✓]		645	18.0	18.3	18.1 [✓]	
621	17.5	17.4	17.4 [✓]	*F [✓]	646	17.5	17.8	17.6 [✓]	
622	17.9	17.9	17.9 [✓]		647	17.1	17.1	17.1 [✓]	
623	17.7	17.6	17.7 [✓]		648	18.1	17.7	17.9 [✓]	
624	17.3	17.3	17.3 [✓]	Faint *NP [✓]	649	17.9	17.8	17.9 [✓]	
625	17.1	17.2	17.2 [✓]		650	17.3	17.2	17.2 [✓]	
626	17.8	17.7	17.7 [✓]		651	18.3	18.4	18.3 [✓]	
627	17.6	17.5	17.6 [✓]		Square 18				
628	17.5	17.4	17.5 [✓]		652	16.2	16.6	16.4 [✓]	*SP [✓]
629	17.6	17.5	17.6 [✓]		653	17.3	17.3	17.3 [✓]	17.4
630	17.2	17.2	17.2 [✓]		654	16.9	17.0	17.0 [✓]	
631	17.5	17.6	17.5 [✓]		655	17.5	17.5	17.5 [✓]	
632	17.8	17.7	17.8 [✓]		656	17.8	17.7	17.7 [✓]	17.9
633	17.3	17.0	17.1 [✓]		657	17.9	17.7	17.8 [✓]	17.9
634	18.2	18.0	18.1 [✓]		658	15.9 - 2	16.1	16.0 [✓]	
635	17.6	17.4	17.5 [✓]		659	17.5	17.6	17.6 [✓]	
636	17.6	17.7	17.6 [✓]		660	17.3	17.4	17.3 [✓]	
637	17.8	18.1	17.9 [✓]	*SF [✓]	661	17.4	17.6	17.5 [✓]	17.9
638	17.7	18.0	17.8 [✓]		662	17.6	17.5	17.5 [✓]	
639	17.4	17.7	17.5 [✓]		663	17.9	17.6	17.8 [✓]	18.0 *NF [✓]
640	17.0	17.1	17.0 [✓]		664	17.8	17.8	17.8 [✓]	
641	17.1	17.0	17.1 [✓]		665	18.0	17.8	17.9 [✓]	18.0
642	17.9	17.7	17.8 [✓]		666	17.2	17.2	17.2 [✓]	*NP [✓]
643	17.6	17.8	17.7 [✓]		667	18.0	17.8	17.9 [✓]	

668	17.2	17.2	17.2 [✓]	neb?	692	17.3	17.6	17.5 [✓]	Begin
669	17.9	17.8	17.9 [✓]		693	17.5	17.8	17.6 [✓]	
670	17.9	17.8	17.8 [✓]		694	17.3	17.4	17.3 [✓]	
671	17.8	17.7	17.7 [✓]	17.8	695	17.2	17.2	17.2 [✓]	
672	15.7 -4	16.1	15.9 [✓]		696	17.5	17.5	17.5 [✓]	
673	16.7	16.7	16.7 [✓]	17.0	697	17.7	18.0	17.8 [✓]	
674	17.5	17.3	17.4 [✓]		698	17.2	17.2	17.2 [✓]	
675	17.0	17.0	17.0 [✓]		699	17.4	17.4	17.4 [✓]	
676	17.6	17.6	17.6 [✓]	br.*N	700	17.1	17.2	17.1 [✓]	
677	17.6	17.5	17.6 [✓]	17.8	701	15.6 -4	16.0	15.8 [✓]	
678	18.4	18.3	18.3 [✓]	18.2	702	16.4	16.7	16.6 [✓]	
679	18.0	18.2	18.1 [✓]	18.2	703	15.4 -1	15.5	15.5 [✓]	Spinal on E Unusual Pair
Square 19					704	16.1 15.9	16.5 16.7	16.3 [✓]	Spinal on C
680	18.2	18.3	18.2 [✓]		705	17.2	17.3	17.2 [✓]	
681	17.3	17.5	17.4 [✓]	neb?	706	18.1	18.2	18.1 [✓]	neb? *SF
682	17.7	17.7	17.7 [✓]		707	17.5	17.9	17.7 [✓]	
683	17.3	17.2	17.3 [✓]		708	17.2	17.3	17.3 [✓]	
684	17.9	18.1	18.0 [✓]		709	17.7	17.6	17.6 [✓]	
685	17.7	17.7	17.7 [✓]		710	17.1	17.0	17.1 [✓]	
686	16.4	16.6	16.5 [✓]		711	17.9	17.9	17.9 [✓]	
687	17.8	17.8	17.8 [✓]		712	17.3	17.6	17.4 [✓]	
688	17.4	17.7	17.6 [✓]		713	17.1	17.0	17.1 [✓]	
689	17.9	18.0	17.9 [✓]		714	18.1	18.1	18.1 [✓]	
690	17.3	17.4	17.4 [✓]	*F	715	18.3	18.2	18.2 [✓]	
691	17.7	18.1	17.9 [✓]		716	18.2	18.2	18.2 [✓]	

717	17.7	18.0	17.9 [✓]		741	17.8	17.8	17.8 [✓]
718	17.4	17.1	17.2 [✓]		742	17.8	17.8	17.8 [✓]
719	17.6	17.7	17.7 [✓]		743	17.9	17.8	17.8 [✓]
720	17.8	17.8	17.8 [✓]		744	17.9	17.9	17.9 [✓]
721	17.9	17.8	17.8 [✓]		745	17.3	17.2	17.3 [✓]
722	17.2	17.5	17.3 [✓]		746	18.2	18.1	18.2 [✓]
723	.				747	17.5	17.8	17.7 [✓]
724	18.2	18.3	18.2 [✓]	} Pair	748	17.7	17.8	17.8 [✓]
725	18.1	18.2	18.1 [✓]		749	15.9	15.9	15.9 [✓]
726	16.0	15.9	16.0 [✓]		750	17.3	17.4	17.3 [✓]
727	18.1	17.8	17.9 [✓]		751	17.4	17.6	17.5 [✓]
728	17.7	17.7	17.7 [✓]		752	17.2	17.4	17.3 [✓]
729	17.0	16.9	17.0 [✓]		753	17.6	17.8	17.7 [✓]
730	17.2	17.2	17.2 [✓]		754	18.1	18.0	18.0 [✓]
731	17.5	17.4	17.5 [✓]		755	18.1	18.2	18.1 [✓]
732	17.7	17.3	17.5 [✓]		756	18.2	18.0	18.1 [✓]
733	18.0	18.1	18.0 [✓]		757	17.9	17.9	17.9 [✓]
734	17.2	17.3	17.3 [✓]		758	17.8	17.8	17.8 [✓]
735	17.7	17.5	17.6 [✓]		759	17.2	17.4	17.3 [✓]
736	17.3	17.3	17.3 [✓]		760	17.0	17.0	17.0 [✓]
737	17.6	17.8	17.7 [✓]		761	17.3	17.4	17.4 [✓]
738	17.2	17.2	17.2 [✓]		762	17.8	17.8	17.8 [✓]
Square 20					763	17.6	17.7	17.7 [✓]
739	16.8	16.7	16.8 [✓]	} Spiral on Edge	764	17.4	17.5	17.4 [✓]
740	18.1	17.8	17.9 [✓]		765	17.9	17.8	17.9 [✓]

766	17.3	17.4	17.4 [✓]		791	16.9	17.0	17.0 [✓]
767	17.2	17.3	17.3 [✓]		792	17.3	17.2	17.3 [✓]
768	17.4			neb? [✓]	793	17.5	17.7	17.6 [✓]
769	17.2	17.3	17.2 [✓]	FWW neb? [✓]	794	18.0	17.8	17.9 [✓]
770	17.6	17.9	17.7 [✓]		795	18.1	18.0	18.0 [✓]
771	15.0	15.1	15.1 [✓]	Spiral on Edge	796	17.9	17.9	17.9 [✓]
772	17.5	17.5	17.5 [✓]		797	18.4	18.4	18.4 [✓]
773	17.9	17.6	17.8 [✓]		798	17.9	17.8	17.9 [✓]
774	17.8	17.9	17.9 [✓]		799	17.7	17.8	17.8 [✓]
775	17.3	17.3	17.3 [✓]	775 pair 778 [✓]	800	16.9	17.0	16.9 [✓]
776	17.8	18.0	17.9 [✓]		801	18.1	18.2	18.2 [✓]
777	16.7	16.6	16.6 [✓]		802	17.5	17.6	17.5 [✓]
778	17.6	17.6	17.6 [✓]		803	17.7	17.9	17.8 [✓]
779	17.9	17.9	17.9 [✓]		804	17.6	17.9	17.8 [✓]
780	17.1	17.0	17.1 [✓]		805	17.8	17.8	17.8 [✓]
781	18.2	18.3	18.2 [✓]		806	17.0	17.2	17.1 [✓]
782	17.3	17.5	17.4 [✓]		807	17.7	17.6	17.7 [✓]
783	17.6	17.5	17.5 [✓]		808	17.5	17.4	17.4 [✓]
784	17.8	17.8	17.8 [✓]		809	17.8	17.6	17.7 [✓]
785	17.7	17.9	17.8 [✓]		810	17.6	17.4	17.5 [✓]
786	17.6	17.6	17.6 [✓]		811	18.1	17.8	17.9 [✓]
787	18.1	17.9	18.0 [✓]		812	17.7	17.8	17.8 [✓]
788	17.2	17.0	17.1 [✓]		813	18.2	18.0	18.1 [✓]
789	17.9	17.7	17.8 [✓]		814	18.1	18.0	18.1 [✓]
790	17.0	17.0	17.0 [✓]		815	17.6	17.6	17.6 [✓]

Spiral on Edge

* P[✓]

816	18.2	18.0	18.1 [✓]	(1464 15.1 - NP 15.1 15.6 - SF 15.6 Components)	15.1 [✓]	double		
817	17.3	17.6	17.4 [✓]		15.6 [✓]			
818	17.3	17.5	17.4 [✓]	Square 21				
819	18.2	17.8	18.0 [✓]	841	17.3	17.3	17.3 [✓]	
820	17.4	17.7	17.5 [✓]	842	17.2	17.2	17.2 [✓]	
821	17.3	17.7	17.5 [✓]	843	18.0	18.2	18.1 [✓]	
822	17.8	17.8	17.8 [✓]	844	17.2	17.7	17.4 [✓]	
823	17.2	17.0	17.1 [✓]	*SP 845	16.7	16.9	16.8 [✓]	*F
824	16.9	16.9	16.9 [✓]	846	17.8	17.9	17.9 [✓]	
825	17.6	17.9	17.8 [✓]	847	17.2	17.0	17.1 [✓]	
826	17.0	17.0	17.0 [✓]	848	17.0	16.9	17.0 [✓]	
827	17.5	17.8	17.7 [✓]	849	17.9	17.8	17.9 [✓]	
828	15.4	15.6	15.5 [✓]	850	17.8	17.9	17.8 [✓]	
829	18.0	18.0	18.0 [✓]	851	17.7	17.8	17.7 [✓]	
830	18.2	18.0	18.1 [✓]	852	17.8	17.9	17.8 [✓]	
831	18.2	18.0	18.1 [✓]	853	17.7	17.9	17.8 [✓]	
832	16.7	16.7	16.7 [✓]	854	16.0	16.5	16.3 [✓]	
833	17.5	17.3	17.4 [✓]	855	17.2	17.0	17.1 [✓]	
834	16.9	16.7	16.8 [✓]	856	17.6	17.6	17.6 [✓]	
835	18.0	17.9	18.0 [✓]	857	17.2	17.2	17.2 [✓]	
836	17.8	17.8	17.8 [✓]	858	16.6	16.0	16.3 [✓]	*SP
837	17.7	17.8	17.7 [✓]	859	17.7	17.7	17.7 [✓]	
838	16.7	16.9	16.8 [✓]	860	17.5	17.6	17.6 [✓]	
839	17.6	17.5	17.6 [✓]	861	17.6	17.6	17.6 [✓]	
840	18.2	17.9	18.1 [✓]	862	17.3	17.8	17.5 [✓]	} Pair
				863	17.4	17.6	17.5 [✓]	

864	16.7	2 16.9	16.8✓
865	18.0	18.2	18.1✓
866	17.9	18.3	18.1✓
867	16.9	17.4	17.2✓
868	16.5	17.0	16.7✓
869	17.0	17.0	17.0✓
870	15.9	15.7	15.8✓
871	17.6	18.0	17.8✓
872	17.6	17.8	17.7✓
873	17.5	17.9	17.7✓

Square 22

874	17.9	17.9	17.9✓
875	17.5	17.6	17.6✓
876	17.3	17.4	17.3✓
877	17.4	17.3	17.4✓
878	17.0	17.1	17.1✓
879	17.7	17.9	17.8✓
880	17.8	17.8	17.8✓
881	17.5	17.7	17.6✓
882	17.4	17.8	17.6✓
883	16.9	17.0	17.0✓
884	18.0	18.1	18.1✓
885	17.7	17.8	17.8✓
886			
887	17.5	17.2	17.3✓

888	17.4	17.1	17.2✓
889	17.5	17.3	17.4✓
890	16.1	15.8	15.9✓
891	16.2	15.9	16.0✓
892	17.3	17.4	17.3✓
893	17.8	17.5	17.6✓
894	17.5	17.3	17.4✓
895	17.6	17.8	17.7✓
896	16.0 16.8	15.7 16.0	16.1✓
897	17.2	17.1	17.1✓
898	17.4	17.1	17.2✓
899	17.9	17.8	17.9✓
900	17.1	17.0	17.0✓

Square 23

901	17.6	17.8	17.7✓
902	17.7	17.8	17.7✓
903	17.8	17.8	17.8✓
904	16.9	16.9	16.9✓
905	17.6	17.5	17.6✓
906	17.7	17.7	17.7✓
907	17.2	17.0	17.1✓
908	17.4	17.4	17.4✓
909	16.8	17.0	16.9✓
910	16.5	16.9	16.7✓
911	17.9	17.8	17.9✓

but * 3F

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912	18.1	17.9	18.0 [✓]		936	17.8	18.1	17.9 [✓]	
913	17.2	17.4	17.3 [✓]		937	18.2	18.3	18.2 [✓]	
914	17.7	17.6	17.6 [✓]		938	17.1 /	17.2	17.1 [✓]	
915	17.6	17.4	17.5 [✓]		939	17.6 17.5	17.7 18.0	17.7 [✓]	
916	18.0	17.8	17.9 [✓]		940	17.7	17.9	17.8 [✓]	
917	17.9	17.6	17.7 [✓]		941	17.5	17.8	17.6 [✓]	
918	17.5	17.3	17.4 [✓]		942	17.6	17.6	17.6 [✓]	
919	17.1	17.0	17.0 [✓]		943	17.4	17.4	17.4 [✓]	
920	18.1	18.0	18.1 [✓]		944	17.8	17.6	17.7 [✓]	
921	18.0	17.9	18.0 [✓]		945	17.6	17.4	17.5 [✓]	
922	17.8	17.7	17.7 [✓]	neb? [✓]	946	17.7	17.3	17.5 [✓]	
923	17.9	18.1	18.0 [✓]		947	17.4	17.3	17.3 [✓]	
924	16.6	16.8	16.7 [✓]		948	17.3	17.3	17.3 [✓]	
925	16.9	17.0	17.0 [✓]		949	17.8	17.7	17.8 [✓]	neb?
926	17.5	17.3	17.4 [✓]		949a	17.6	17.8	17.7 [✓]	
927	16.8	16.9	16.9 [✓]		950				
928	17.4	17.3	17.4 [✓]		951	17.7	17.8	17.7 [✓]	
929	16.9	17.1	17.0 [✓]		952	15.3	15.3	15.3 [✓]	
930	16.3 16.1	16.5 16.7	16.4 [✓]	Spiral on Edge	953	17.2	17.2	17.2 [✓]	
931	15.9	15.8	15.9 [✓]	*SF [✓]	954	17.3	17.1	17.2 [✓]	
932	17.0	17.1	17.0 [✓]		955	17.9	17.6	17.8 [✓]	
933	17.4	17.6	17.5 [✓]		956	17.8	17.6	17.7 [✓]	
Square 24.					957	17.3	17.4	17.3 [✓]	
934	17.7 17.5	18.0 18.0	17.8 [✓]		958	17.0	17.4	17.2 [✓]	Spiral on Edge
935	17.2	17.6	17.4 [✓]		959	18.1	17.8	18.0 [✓]	
					960	17.9	17.8	17.9 [✓]	

961	18.0	17.8	17.9		986	17.9	17.8	17.8
962	17.2	17.0	17.1		987	16.0	15.6	15.8
963	17.4	17.1	17.2		988	17.1	17.2	17.1
964	17.5	17.7	17.6		989	17.9	17.7	17.8
965	17.9	17.8	17.9		990	18.0	17.7	17.8
966	17.3	17.6	17.4		991	18.2	17.9	18.1
967	17.0	17.1	17.1		992	17.8	17.7	17.8
968	17.9	17.9	17.9		993	17.2	17.5	17.3
969	18.4	18.3	18.4		994	17.9	17.9	17.9
970	15.7	15.6	15.7	*NF	995	17.1	17.3	17.2
971	17.4	17.5	17.4		996	17.5	17.4	17.4
972	17.3	17.6	17.5		997	17.4	17.4	17.4
973	17.0	16.9	17.0		998	17.2	17.3	17.3
974	16.8	16.9	16.9		999	17.5	17.7	17.6
975	17.7	17.3	17.5		1000	16.9	17.3	17.1
976	17.9	17.8	17.8		1001	16.8	17.0	16.9
977	16.6	16.4	16.5		1002	17.5	17.6	17.6
978	17.4	17.6	17.5		11458	215.0	215.0	215.0
979	17.7	17.9	17.8		Square 25			
980	17.3	17.0	17.1		1003	17.2	17.6	17.4
981	17.2	17.1	17.2		1004	17.6	17.8	17.7
982	18.3	18.0	18.1		1005	17.7	17.7	17.7
983	17.4	17.1	17.2		1006	16.9	17.0	16.9
984	17.4	17.1	17.3		1007	16.7	16.9	16.8
985	17.7	17.3	17.5		1008	16.5	16.8	16.6

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1009	17.6	17.1	17.3 [✓]		1034	17.8	17.8	17.8 [✓]
1010	15.8	15.4	15.6 [✓]	off. ad SP	1035	17.5	17.8	17.7 [✓]
1011	17.9	17.8	17.8 [✓]		1036	17.6	17.8	17.8 [✓]
1012	17.8	17.9	17.9 [✓]		1037	17.3	17.7	17.5 [✓]
1013	17.5	17.7	17.6 [✓]		1038	17.8	17.9	17.8 [✓]
1014	17.6	17.6	17.6 [✓]		1039	17.4	17.7	17.5 [✓]
1015	17.6	17.7	17.6 [✓]		1040	17.9	18.2	18.0 [✓]
1016	17.8	17.9	17.9 [✓]		1041	15.9 16.3	16.2 15.5	16.0 15.9 [✓]
1017	17.4	17.6	17.5 [✓]	} Pair	1042	215.0	215.0	215.0 [✓]
1018	17.9	18.0	18.0 [✓]					
1019	15.4	15.1	15.3 [✓]	Spiral on Edge				
1020	17.7	18.0	17.8	from neb?				
1021	17.4	17.8	17.6 [✓]					
1022	17.1	17.3	17.2 [✓]					
1023	17.5	17.4	17.5 [✓]	neb?				
1024	17.3	17.4	17.4 [✓]					
1025	17.6	17.7	17.7 [✓]					
1026	18.1	17.9	18.0 [✓]					
1027	17.8	17.9	17.8 [✓]					
1028	17.2	17.5	17.3 [✓]					
1029	17.7	17.7	17.7 [✓]					
1030	17.6	17.8	17.7 [✓]					
1031	16.2 16.5	16.2 15.7	16.2 [✓]					
1032	16.3 16.8	16.3 16.0	16.3 [✓]					
1033	17.9	17.8	17.8 [✓]					

470 g dyf 7 49.7

A 20503

July '39

Counted stars have circles

(15.0) RAP

15.3

15.5

(15.8) RAP

16.1

(16.5⁴) RAP

16.5

16.54 changed to 16.4

Interpolations made by FWU

16.8

(17.1) CDB
FWU
RAP(17.4) CDB
RAP

17.7

(17.9) CDB
RAP

18.2

18.3

(18.5) RAP

18.8

(18.9) CDB

A 20503

0 40 -20

Square 1						
	<u>C.O.B.</u>	<u>F.W.W.</u>	<u>MEAN</u>			
1	18.1	18.3	18.2	22	18.2	18.0 18.1 ✓
2	17.8	18.1	18.0 ✓	23	18.2	18.0 18.1 ✓
3	17.6	17.5	17.5 ✓	24	18.4	18.0 18.2 ✓
4	17.5	17.9	17.7 ✓	25	18.2	17.9 18.1 ✓
5				26	18.3	17.8 18.0 ✓
6	17.8	17.6	17.7 ✓	27	17.4	17.4 17.4 ✓
7	17.2	16.6	16.9 ✓	28	17.8	18.1 17.9 ✓
8	18.4	18.5	18.4 ✓	29	17.9	18.0 18.0 ✓
9	18.1	18.3	18.2 ✓	30	18.3	18.4 18.3 ✓
10	17.4	17.8	17.6 ✓	31	17.5	17.7 17.6 ✓
11	18.2	18.4	18.3 ✓	32	17.3	17.5 17.4 ✓
12	16.3	16.8	16.5 ✓	33	17.0	17.3 17.2 ✓
13	18.2	18.4	18.3 ✓	34	18.2	18.1 18.1 ✓
14	18.1	18.3	18.2 ✓	35	17.8	18.0 17.9 ✓
15	15.9	16.2	16.0 ✓	36	16.7	16.4 16.6 ✓
16	15.0	15.0	15.0 ✓	37	17.7	17.6 17.7 ✓
17	15.8	15.3	15.5 ✓	38	17.9	17.6 17.8 ✓
18	15.3	15.4	15.4 ✓	39	17.5	17.4 17.5 ✓
19	18.2	18.0	18.1 ✓	40	17.5	17.2 17.4 ✓
20	18.1	18.2	18.1 ✓	41	17.4	17.3 17.3 ✓
21	18.0	18.1	18.0 ✓	42	17.4	17.5 17.4 ✓
				43	17.4	17.5 17.5 ✓

} P.M.

Square 2

44	15.1 15.0	15.0 15.1	15.0 15.1	
45	18.2	18.5	18.4	✓
46	17.8	17.9	17.9	✓
47	18.1	17.7	17.9	✓
48	18.0	18.2	18.1	✓
49	17.3	17.5	17.4	✓
50	17.8	17.7	17.8	✓
51	17.7	17.9	17.8	✓
52	18.1	18.1	18.1	✓
53	16.4	16.3	16.3	✓
54	17.3	17.1	17.2	✓
55	17.2	17.3	17.2	✓
56	16.9	16.9	16.9	✓
57	18.3	18.0	18.1	✓
58	17.2 17.3	16.7 16.8	17.0	✓
59	17.4 17.7	17.7 17.2	17.5	✓
60	15.5 15.5	15.1 15.0	15.3	✓
61	17.3	17.0	17.2	✓
62	17.9	17.6	17.7	✓
63	18.4	18.1	18.2	✓
64	17.0	16.6	16.8	✓
65	17.9 17.9	18.2 18.5	18.1	✓
66	17.6	17.2	17.4	✓
67	18.3	18.1	18.2	✓

(FJB)

68	18.4	18.2	18.3	✓
69	18.3	18.2	18.3	✓
70	17.7	17.7	17.7	✓
71	16.4	16.2	16.3	✓
72	17.5 17.5	17.1 17.0	17.3	✓ to S of 17358 * NF
73	17.7	17.7	17.7	✓
74	17.8	17.8	17.8	✓
75	18.4 18.4	18.1 17.9	18.2	✓
76	18.1	17.9	18.0	✓
77	18.0	17.7	17.8	✓
78	18.3	18.1	18.2	✓
79	17.8	17.8	17.8	✓
80	17.4	17.6	17.5	✓
81	18.0	17.9	17.9	✓
82	18.4	18.0	18.2	✓
83	17.7	17.9	17.8	✓
84	16.6	16.8	16.7	✓
85	18.0	17.7	17.8	✓
86	16.7	16.5	16.6	✓
87	18.6	18.4	18.5	✓
88	18.4	18.3	18.3	✓
89	17.8	17.7	17.8	✓
90	17.3	17.4	17.3	✓
91	18.0	17.9	18.0	✓
92	17.6	17.5	17.5	✓

93	18.0	17.8	17.9 [✓]		118	18.1	17.9	18.0 [✓]
94	17.6	17.3	17.4 [✓]		119	18.2	18.2	18.2 [✓]
95	17.7	17.6	17.7 [✓]		120	17.2	17.0	17.1 [✓]
96	18.0	17.9	18.0 [✓]	hc.*SP [✓]	121	17.6	17.2	17.4 [✓]
97	18.5	18.3	18.4 [✓]		122	18.2	17.3	17.8 [✓]
98	18.2	18.1	18.1 [✓]		123	16.1	15.9	16.1 [✓]
99	17.3	17.6	17.4 [✓]		Squaw 3			
100	18.6	18.5	18.5 [✓]		124	17.0	17.2	17.1 [✓]
101	18.4	18.2	18.3 [✓]		125	17.8	17.7	17.7 [✓]
102	18.3	18.4	18.4 [✓]	*SP [✓]	126	18.2	18.1	18.2 [✓]
103	17.3	17.1	17.2 [✓]		127	16.7	17.0	16.9 [✓]
104	18.3	18.2	18.3 [✓]		128	18.1	18.0	18.0 [✓]
105	18.6	18.7	18.6 [✓]		129	17.7	17.4	17.5 [✓]
106	18.4	18.6	18.5 [✓]		130	17.1	16.7	16.9 [✓]
107	18.5	18.2	18.3 [✓]		131	17.3	17.2	17.2 [✓]
108	17.3	17.3	17.3 [✓]		132	18.1	18.5	18.3 [✓]
109	18.1	18.0	18.0 [✓]		133	17.7	18.1	17.9 [✓]
110	18.6	18.6	18.6 [✓]		134	17.9	17.9	17.9 [✓]
111	18.2	17.8	18.0 [✓]		135	18.1	18.4	18.3 [✓]
112	17.6	17.6	17.6 [✓]		136	18.1	18.1	18.1 [✓]
113	18.1	18.0	18.1 [✓]		137	17.9	17.8	17.8 [✓]
114	17.9	17.9	17.9 [✓]		138	17.8	17.7	17.7 [✓]
115	18.5	18.7	18.6 [✓]		139	18.6	18.4	18.5 [✓]
116	17.3	17.4	17.4 [✓]		140	18.3	18.3	18.3 [✓]
117	18.4	18.4	18.4 [✓]		141	17.8	17.6	17.7 [✓]

142	16.6	16.6	16.6	✓	167	18.2	18.5	18.4	✓
	17.5	16.9				17.7	17.8		✓
143	17.3	16.7	17.1	✓	168	17.7	18.2	17.8	✓
144	17.7	17.8	17.8	✓	169	18.7	18.7	18.7	✓
145	17.5	17.6	17.5	✓	170	18.5	18.4	18.5	✓
145W	17.9	17.9	17.9	✓					
146	16.4	16.6	16.5	✓	171	17.8	17.7	17.8	✓
147	18.0	17.8	17.9	✓	172	17.9	17.7	17.8	✓
148	18.4	18.6	18.5	✓	173	17.3	17.6	17.5	✓
149	18.4	18.5	18.4	✓	174	18.5	18.2	18.4	✓
150	18.5	18.5	18.5	✓	175	17.6	17.8	17.7	✓
151	17.5	17.6	17.5	✓	176	17.2	17.2	17.2	✓
152	17.6	17.6	17.6	✓	177	18.6	18.6	18.6	✓
153	17.1	17.5	17.3	✓	178	18.3	18.4	18.3	✓
154	17.8	17.8	17.8	✓	179	17.7	17.9	17.8	✓
155	17.6	17.6	17.6	✓	180	17.0	17.1	17.0	✓
									but xsp
156	17.9	17.9	17.9	✓	181	18.2	18.4	18.3	✓
157	17.3	17.4	17.4	✓	182	17.3	17.3	17.3	✓
158	18.6	18.5	18.5	✓	183	18.6	18.6	18.6	✓
159	15.6	15.3	15.4	✓	184	16.5	16.7	16.6	✓
160	18.0	18.2	18.1	✓	185	17.4	17.3	17.3	✓
161	17.7	17.7	17.7	✓	186	18.5	18.5	18.5	✓
162	17.8	18.0	17.9	✓	187	16.6	16.5	16.6	✓
163	17.5	17.6	17.5	✓	188	18.3	18.7	18.5	✓
164	17.6	17.9	17.8	✓	189	17.9	18.0	17.9	✓
165	16.7	17.1	16.9	✓	190	17.6	17.8	17.7	✓
166	17.8	18.1	17.9	✓	191	18.1	18.1	18.1	✓

143 } pair
51574

} pair

160 } pair
181

192	17.8	17.6 17.4	17.6 ✓	217	16.6	16.6	16.6 ✓
193	18.2	18.5 18.5	18.4 ✓	218	16.8	16.6	16.7 ✓
194	18.3	18.5	18.4 ✓	219	17.8	17.6	17.7 ✓
195	18.2	18.1	18.2 ✓	220	17.3	17.5	17.4 ✓
196	17.7	17.8	17.7 ✓	221	17.1	17.1	17.1 ✓
197	17.6	17.5	17.6 ✓	222	17.0	17.0	17.0 ✓
198	18.1	18.1	18.1 ✓	223	17.2	17.3	17.3 ✓
199	18.4	18.5	18.5 ✓	224	17.0	16.9	17.0 ✓
200	17.5	17.5	17.5 ✓	225	17.9	17.8	17.9 ✓
201	17.3	17.4	17.4 ✓	226	18.4	18.2	18.3 ✓
202	17.6	17.7	17.7 ✓	227	18.1	17.9	18.0 ✓
203	17.4	17.7	17.6 ✓	228	18.0	17.9	18.0 ✓
204	17.8	17.8	17.8 ✓	229	18.2	17.9	18.1 ✓
205	18.4	18.0	18.2 ✓	230	18.5 18.4	18.0 17.8	18.2 ✓
206	17.3	17.5	17.4 ✓	231	18.5	18.5	18.5 ✓
207	17.4	17.4	17.4 ✓	232	17.9	17.8	17.9 ✓
208	18.2 18.3	18.0 17.8	18.1 ✓	233	18.4	18.4	18.4 ✓
209	18.5	18.5	18.5 ✓	234	18.0	17.8	17.9 ✓
210	18.4	18.3	18.3 ✓	235	17.3	17.4	17.4 ✓
211	18.6	18.5	18.6 ✓	21574	15.3	15.1	15.2 ✓
212	18.1	18.2	18.1 ✓	Square 4			
213	17.7	17.7	17.7 ✓	236	17.7	17.5	17.6 ✓
214	18.2	18.0	18.1 ✓	237	18.2	17.9	18.1 ✓
215	18.5	18.5	18.5 ✓	238	17.9	17.8	17.8 ✓
216	18.4	18.6	18.5 ✓	239	17.3	17.4	17.3 ✓

F. W. W. 18.6?

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Apical on
Edge

240	15.9	16.3	16.1 ✓		265	17.8	17.9	17.8 ✓	
241	15.0	15.0	15.0 ✓		266	17.2	17.1	17.1 ✓	
242	15.2	15.0	15.1 ✓		267	18.7	18.6	18.6 ✓	
243	18.0	18.1	18.0 ✓		268	17.8	17.8	17.8 ✓	
244	17.7	17.9	17.8 ✓		269	16.0 16.3	16.1 15.7	16.0 ✓	} Pair ✓
245	17.8	17.8	17.8 ✓		270	17.2	17.6	17.4 ✓	
246	18.6	18.7	18.7 ✓	neb? ✓	271	17.2	17.2	17.2 ✓	
247	17.7	17.6	17.6 ✓		272	18.4	18.5	18.5 ✓	
248	18.3	18.5	18.4 ✓		273	17.4	17.2	17.3 ✓	
249	17.2 17.3	16.6 16.7	16.9 ✓	*WF ✓	274	15.6 16.0	15.0 15.3	15.5 ✓	
250	17.9	18.1	18.0 ✓		275	18.2	18.5	18.4 ✓	
251	18.2	17.9	18.1		276	16.6	16.4	16.5 ✓	
252	18.1	17.8	18.0 ✓		277	15.0	15.0	15.0 ✓	
253	18.5	18.4	18.5 ✓		278	17.1 17.2	17.4 17.7	17.4 ✓	
254	17.8	17.6	17.7 ✓		279	18.2	18.4	18.3 ✓	
255	18.0	17.9	18.0 ✓		280	18.2	18.6	18.3 ✓	
256	18.0 17.8	17.1 17.3	17.6 ✓	room 9759 *NF ✓	281	18.3	18.2	18.2 ✓	
257	17.9	18.0	17.9 ✓		282	18.6	18.6	18.6 ✓	
258	18.1	17.9	18.0 ✓		283	18.0	18.2	18.1 ✓	} Pair ✓
259	18.3	18.1	18.2 ✓		284	18.3	18.2	18.3 ✓	
260	17.3 17.5	17.4 17.0		few neb: doubt? ✓	285	17.0	17.0	17.0 ✓	
261	17.9	17.8	17.8 ✓	*NF ✓	286	18.4	18.6	18.5 ✓	
262	18.4	18.7	18.5 ✓		287	18.2	18.3	18.2 ✓	
263	18.3	18.2	18.2 ✓		288	17.3	17.6	17.5 ✓	room 9759 *NF ✓
264	15.9	16.2	16.1 ✓		289	17.0	16.6	16.8 ✓	

290	17.8	18.0	17.9 ✓	315	17.3	17.5	17.4 ✓
291	17.6	17.4	17.5 ✓	316	17.0	17.1	17.0 ✓
292	17.9	17.7	17.8 ✓	317	17.8	17.9	17.9 ✓ <i>near 1975.9 *SF</i>
293	16.2	16.2	16.2 ✓	318	18.1	18.1	18.1 ✓
294	18.7 18.4	17.8 17.7	18.2 ✓	319	16.9	17.0	17.0 ✓
295	17.2	17.0 17.4	17.2 ✓	320	17.9	17.9	17.9 ✓
296	18.1	18.0	18.0 ✓	321	18.4	18.6	18.5 ✓ <i>neb?</i>
297	17.2	17.4	17.3 ✓	Square 5			
298	17.5	17.5	17.5 ✓	322	17.2	17.5	17.3 ✓
299	17.3	17.4	17.3 ✓	323	17.0	17.4	17.2 ✓
300	17.6	17.6	17.6 ✓	324	18.4	18.3	18.4 ✓
301	18.4	18.0	18.2 ✓	325	18.0	17.9	17.9 ✓
302	17.4	17.4	17.4 <i>Fewer and? double *?</i>	326	17.8	17.4	17.6 ✓
303	15.8	15.9	15.8 ✓	327	16.0	16.3	16.2 ✓
304	16.2	16.3	16.3 ✓	328	17.5	17.9	17.7 ✓
305	17.9	17.8	17.8 ✓	329	18.3	18.8	18.5 ✓
306	18.6	18.4	18.5 ✓	330	17.4	17.6	17.5 ✓
307	16.6	16.4	16.5 ✓	331	17.1	17.1	17.1 ✓
308	18.3	18.3	18.3 ✓ <i>lit *SF</i>	332	18.2	18.5	18.4 ✓
309	15.9	15.8	15.9 ✓	333	17.9	17.8	17.9 ✓
310	16.8	16.7	16.8 ✓	334	18.1	17.9	18.0 ✓
311	16.2	16.4	16.3 ✓	335	18.3	18.5	18.4 ✓
312	18.3	18.5	18.4 ✓	336	17.9	18.2	18.0 ✓
313	18.6	18.5	18.5 ✓	337	17.7	17.8	17.7 ✓
314	18.2	18.2	18.2 ✓	338	18.0	17.9	18.0 ✓

339	17.5	17.6	17.5 ✓		364	18.5	18.2	18.4 ✓	
340	18.1	18.2	18.2 ✓		365	17.2	17.4	17.3 ✓	
341	18.3	18.5	18.4 ✓		366	18.3	18.3	18.3 ✓	
342	15.9	15.3	15.6 ✓	} Pain	367	18.2	18.1	18.1 ✓	
343	16.1	15.9	16.0 ✓		368	17.5	17.8	17.6 ✓	
344	16.6	16.8	16.7 ✓		369	17.8	17.9	17.9 ✓	
345	16.9	17.0	16.9 ✓		370	17.1	16.7	16.9 ✓	
346	18.3	18.2	18.2 ✓		371	17.2	16.7	17.0 ✓	
347	17.5	17.9	17.7 ✓		372	17.2	16.6	16.9 ✓	
348	17.9	17.9	17.9 ✓		373	18.0	17.8	17.9 ✓	neb?
349	17.7	17.8	17.7 ✓	* F ✓	374	17.8	18.0	17.9 ✓	
350	16.4 16.6	15.6 15.5	16.0 ✓	Spinal on edge	375	17.0	16.7	16.9 ✓	
351	18.5	18.6	18.6 ✓		376	18.1	17.9	18.0 ✓	
352	18.4	18.0	18.2 ✓		377	18.3	18.2	18.2 ✓	
353	17.0	16.8	16.9 ✓		378	17.3	17.4	17.3 ✓	
354	18.5	18.3	18.4 ✓		379	17.4	17.5	17.4 ✓	
355	17.5	17.9	17.7 ✓		380	17.9	17.8	17.9 ✓	
356	17.6	18.0	17.8 ✓		381	16.9	16.7	16.8 ✓	
357	15.2 15.1	15.0 15.0	15.0 ✓		382	17.8	17.7	17.8 ✓	
358	17.4	17.8	17.6 ✓		383	17.6	17.7	17.7 ✓	
359	18.1	18.0	18.1 ✓		384	17.3	17.0	17.2 ✓	
360	17.7	17.8	17.8 ✓		385	17.2	17.0	17.1 ✓	
361	17.3	17.1	17.2 ✓		386	17.5	17.2	17.3 ✓	
362	18.2	18.3	18.3 ✓						
363	18.0	17.8	17.9 ✓						

Square 6

387	18.4	18.1	18.2 ✓
388	17.8	17.6	17.7 ✓
389	17.9	17.8	17.9 ✓
390	17.8	17.8	17.8 ✓
391	18.2	18.2	18.2 ✓
392	18.5	18.5	18.5 ✓
393	18.4	18.3	18.4 ✓
394	17.7	17.7	17.7 ✓
395	18.1	18.0	18.1 ✓
396	17.6	17.7	17.6 ✓
397	17.7	17.9	17.8 ✓
398	17.6	17.4	17.5 ✓
399	18.0	18.2	18.1 ✓
400	18.0	18.3	18.1 ✓
401	17.3	17.4	17.4 ✓
402	17.8	17.8	17.8 ✓
403	18.1	18.1	18.1 ✓
404	17.7	17.7	17.7 ✓
405	17.7	17.6	17.7 ✓
406	17.5	17.6	17.6 ✓
407	18.3	18.0	18.1 ✓
408	18.0	17.8	17.9 ✓
409	18.0	17.8	17.9 ✓
410	17.0	17.4	17.2 ✓

411	18.0	17.7	17.8 ✓
412	17.9	17.9	17.9 ✓
413	18.2	18.0	18.1 ✓
414	17.7	17.7	17.7 ✓
415	17.1	17.4	17.3 ✓
416	16.4	16.4	16.4 ✓
417	16.5	16.3	16.4 ✓
418	18.2	18.5	18.4 ✓
419	18.2	18.3	18.3 ✓
420	18.6	18.5	18.6 ✓
421	17.3	17.2	17.3 ✓
422	18.2	18.3	18.2 ✓
423	18.1	18.3	18.2 ✓
424	18.4	18.5	18.5 ✓
425	18.5	18.5	18.5 ✓
426	18.4	18.3	18.4 ✓
427	16.6	16.4	16.5 ✓
428	18.2	18.0	18.1 ✓

Square 7

429	17.2	17.6	17.4 ✓
430	17.5	17.7	17.6 ✓
431	17.3	17.4	17.4 ✓
432	17.7	17.8	17.7 ✓
433	18.1 17.8	17.9 18.3	18.0 ✓
434	18.3	18.4	18.4 ✓

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436	18.3	18.1	18.2	✓	460	17.7	17.7	17.7	✓
436	18.2	18.1	18.1	✓ ⁴³⁵⁸ *P	461	18.2	17.8	18.0	✓
437	18.4	18.2	18.3	✓	462	18.1	17.8	18.0	✓
438	18.1	18.0	18.0	✓	463	17.6	17.5	17.5	✓
439	18.3	18.1	18.2	✓	464	15.2 - 2	15.4	15.3	✓ <i>spiral edge</i>
440	18.4	18.6	18.5	✓	465	17.3	17.4	17.4	✓
441	16.9	17.2	17.1	✓	466	17.2	17.2	17.2	✓
442	18.2	18.0	18.1	✓	467	17.1	17.2	17.1	✓
443	18.0	17.9	18.0	✓	468	17.1	17.1	17.1	✓
444	18.2	18.0	18.1	✓	469	17.4	17.2	17.3	✓
445	17.5	17.6	17.5	✓	470	16.0	16.4	16.2	✓
446	17.8 18.3	18.0 17.8	18.0	✓	471	18.4	18.5	18.4	✓
447	18.7	18.6	18.6	✓	472	17.4	17.6	17.5	✓
448	17.5	17.5	17.5	✓	473	17.2	17.4	17.3	✓
449	17.4	17.4	17.4	✓	474	17.8	18.0	17.9	✓
450	16.6	16.6	16.6	✓	475	17.4	17.6	17.5	✓
451	17.5	17.6	17.5	✓	476	17.6	17.7	17.7	✓
452	18.4	18.3	18.4	✓	477	17.8	17.9	17.8	✓
453	17.7 18.3	17.8 17.7	17.9	✓	478	17.2	17.2	17.2	✓
454	17.3	17.2	17.3	✓	479	17.5	17.6	17.5	✓
455	18.4	18.3	18.4	✓	480	17.6	17.6	17.6	✓
456	18.6	18.7	18.7	✓	481	18.6	18.5	18.6	✓
457	18.4	18.4	18.4	✓	482	18.7	18.6	18.7	✓
458	17.8	17.8	17.8	✓	483	17.9	17.8	17.8	✓
459	17.9	17.9	17.9	✓					

SQUARE 8

484 18.3 18.0 18.1 ✓

485 18.6 18.5 18.6 ✓

486 17.3 17.3 17.3 ✓

487 17.4 17.4 17.4 ✓

488 18.6 18.3 18.5 ✓

489 18.5 18.3 18.4 ✓

490 18.0 17.7 17.8 ✓

491 17.3 17.3 17.3 ✓

492 18.7 18.6 18.7 ✓

493 17.6 17.6 17.6 ✓

494 18.0 17.9 18.0 ✓

495 17.6 17.4 17.5 ✓

496 17.2 17.0 17.1 ✓

497 18.5 18.1 18.3 ✓

498 18.0 17.9 18.0 ✓

499 17.9 17.7 17.8 ✓

500 17.6 17.4 17.5 ✓

501 18.4 18.0 18.2 ✓

502 17.4 17.4 17.4 ✓

503 18.1 18.0 18.1 ✓

504 18.6 18.5 18.5 ✓

505 18.1 17.9 18.0 ✓

506 18.2 17.8 18.0 ✓

507 18.6 18.2 18.4 ✓

* P ✓

} Pair ✓

Spinal
Edge

lit. * SP ✓

508 18.4 18.5 18.4 ✓

509 18.2 18.2 18.2 ✓

510 17.3 17.1 17.1 ✓

511 18.5 18.2 18.3 ✓

512 18.7 18.4 18.6 ✓

513 17.6 17.7 17.7 ✓

514 115.0 115.0 115.0 ✓

515 17.5 17.1 17.3 ✓

516 17.9 17.9 18.0 ✓

517 18.2 17.9 18.0 ✓

518 18.7 18.5 18.6 ✓

519 18.7 18.6 18.7 ✓

520 18.0 17.9 18.0 ✓

521 18.7 18.5 18.6 ✓

522 17.8 18.0 17.9 ✓

523 16.5 16.4 16.5 ✓

524 17.4 17.3 17.3 ✓

525 18.7 18.5 18.6 ✓

526 18.1 17.8 17.9 ✓

527 17.8 17.8 17.8 ✓

528 18.3 18.3 18.3 ✓

529 18.1 17.9 18.0 ✓

530 17.8 17.8 17.8 ✓

531 18.3 17.9 18.1 ✓

532 18.1 17.7 17.9 ✓

1975 * NP

533	17.9	17.6	17.8 ✓	Spinal on Edge	558	18.6	18.3	18.5 ✓
534	17.9	17.9	17.9 ✓		559	18.1	17.8	18.0 ✓
535	18.4	18.2	18.3 ✓	neb? ✓ * SP ✓	N 216	115.0	115.0	115.0 ✓
536	18.6 18.6	18.4 18.0	18.4 ✓		SQUARE 9			
537	17.6	17.9	17.7 ✓		560	18.6	18.6	18.5 ✓
538	17.8	17.6	17.7 ✓		561	18.7	18.5	18.6 ✓
539	18.4	18.3	18.4 ✓		562	18.6	18.5	18.5 ✓
540	17.3	17.5	17.4 ✓		563	18.5	18.3	18.4 ✓
541	17.4	17.7	17.5 ✓		564	18.8	18.6	18.7 ✓
541	18.1	17.9	18.0 ✓		565	18.1	18.0	18.0 ✓
543	17.4	17.4	17.4 ✓		566	18.8	18.6	18.7 ✓
544	17.5	17.6	17.6 ✓		567	17.5	17.2	17.3 ✓
545	17.3	17.4	17.3 ✓		568	17.7	17.6	17.6 ✓
546	18.6	18.4	18.5 ✓	} Pair ✓	569	17.8	17.7	17.7 ✓
547	18.5	18.3	18.4 ✓		570	18.6	18.5	18.6 ✓
548	18.7	18.7	18.7 ✓		571	18.1	17.8	17.9 ✓
549	17.3	17.4	17.4 ✓		572	17.7	17.3	17.5 ✓
550	18.0	17.7	17.9 ✓		573	18.6	18.5	18.6 ✓
551	18.2	18.3	18.2 ✓		574	18.2	18.3	18.3 ✓
552	17.8	18.1	17.9 ✓		575	17.2	16.9	17.0 ✓
553	18.5	18.4	18.4 ✓		576	16.4	16.5	16.5 ✓
554	18.2	18.5	18.3 ✓		577	17.8 18.0	17.7 17.4	17.7 ✓
555	17.7	17.4	17.6 ✓		578	17.5	17.5	17.5 ✓
556	18.4	18.4	18.4 ✓		579	18.7	18.9	18.8 ✓
557	18.4	18.4	18.4 ✓		580	18.5	18.5	18.5 ✓

563 } Pair ✓
610 15 223

581	18.7	18.7	18.7	✓	606	18.4 18.6	18.1 18.0	18.3	✓		
582	18.6	18.5	18.6	✓	*5	607	17.8	17.7	17.8	✓ not for YA19759 *NP	
583	17.8	18.0	17.9	✓	608	17.6	17.7	17.7	✓		
584	17.2	17.2	17.2	✓	609	18.5	18.1	18.3	✓		
585	18.5	18.2	18.3	✓	610	18.6	18.6	18.6	✓		
586	18.5	18.6	18.6	✓	611	17.0	16.6	16.8	✓		
587	18.6	18.5	18.5	✓	612	18.6	18.2	18.4	✓		
588	16.9	17.1	17.0	✓	613	18.7	18.4	18.5	✓		
589	18.6	18.6	18.6	✓	N247	115.0	115.0	115.0	✓		
590	18.7	18.6	18.6	✓	Hel 3	16.6	16.4	16.5	✓ not for YA19759 *SF		
591	17.7	17.9	17.8	✓	591 } pair Lick 18	Hel 4	15.5 - 1	15.6	15.5	✓	
592	18.6	18.5	18.5	✓	Hel 6	115.0	115.0	115.0	✓ = Lick 26		
593	18.7	18.5	18.6	✓	Lick 8	17.8	18.0	17.9	✓		
594	17.9	18.2	18.0	✓	Int. *NP	Lick 9	15.0	0	15.0	15.0	✓ not for YA19759 *inv.
595	16.4 16.9	15.4 15.4	16.0	✓	inv. N247 broth in sp. fuel ref. pair	Lick 10	17.3	17.1	17.2	✓	
596	17.3 17.2	16.7 16.5	16.9	✓	" inv. N247	Lick 12	17.2	17.5	17.4	✓	
597	18.1	18.1	18.1	✓	inv. N247	Lick 14	17.3 17.6	17.4 17.1	17.4	✓	
598	15.7 + 2	15.5	15.6	✓	inv. N247	Lick 16	115.0	115.0	115.0	✓	
599	18.7 17.6	18.5 18.5	18.3	✓	Lick 17	15.6 + 3	15.3	15.5	✓		
600	16.9	16.6	16.7	✓	Lick 18	17.5	17.2	17.3	✓		
601	17.6	17.2	17.4	✓	inv. N247 601 } pair 605 }	Lick 19	115.0	115.0	115.0	✓	
602	17.5	17.1	17.3	✓	inv. N 602 } pair 604 }	Lick 20	17.2	17.1	17.2	✓ not for YA19759 *P	
603	18.6	18.5	18.6	✓	Lick 22	18.2 18.3	17.7 17.5	17.9	✓		
604	17.6	17.3	17.5	✓							
605	17.3 17.9	17.7 17.3	17.5	✓	inv. N247 inv. N247						

SQUARE 10

614	18.2 17.9	18.2 18.5	18.2 ✓
615	18.0	18.1	18.1 ✓
616	16.5	16.7	16.6 ✓
617	17.9	18.0	18.0 ✓
618	17.4	17.7	17.5 ✓
619	17.6	17.7	17.6 ✓
620	17.3	16.9	17.1 ✓
621	18.5	18.6	18.5 ✓
622	18.6	18.6	18.6 ✓
623	18.5	18.2	18.4 ✓
624	18.4	18.3	18.3 ✓
625	16.2	16.5	16.4 ✓
626	17.9	17.9	17.9 ✓
627	18.0	17.8	17.9 ✓
628	17.3	17.4	17.3 ✓
629	18.3	18.2	18.2 ✓
630	17.5	17.2	17.3 ✓
631	18.1	18.5	18.3 ✓
632	15.6	15.8	15.7 ✓
633	18.6	18.6	18.6 ✓
634	18.2	18.3	18.2 ✓
635	17.9 18.4	17.7 17.8	17.9 ✓
636	17.6 17.5	18.2 18.0	17.8 ✓
637	17.6	17.6	17.5 ✓

between *a

(FSB)

638	18.0	17.8	17.9 ✓
639	18.3	18.1	18.2 ✓
640	17.5	17.5	17.5 ✓
641	18.1	17.8	18.0 ✓
642	17.3	16.9	17.1 ✓
643	18.0	18.4	18.2 ✓
644	18.3	18.5	18.4 ✓
645	115.0	115.0	115.0 ✓
646	18.0	18.0	18.0 ✓
647	18.1	18.2	18.1 ✓
648	18.3	18.0	18.2 ✓
649	18.1 18.4	17.9 17.8	18.0 ✓
650	16.8	17.1	16.9 ✓
651	17.8	18.1	18.0 ✓
652	17.6	17.6	17.6 ✓
653	17.8	18.1	17.9 ✓
654	18.5	18.2	18.4 ✓
655	17.7	17.8	17.7 ✓
656	17.4	17.6	17.5 ✓
657	18.0	18.3	18.2 ✓
658	18.1	18.1	18.1 ✓

*NP ✓

SQUARE 11

659	17.5	17.7	17.6 ✓
660	18.6	18.5	18.6 ✓
661	17.3	17.4	17.3 ✓

Spinal on
Edge

662	17.8	17.6	17.7	✓	687	18.1	17.8	18.0	✓
663	15.0	15.0	15.0	✓ <i>same spiral on edge of SP</i>	688	17.0	16.8	16.9	✓
664	17.8	17.8	17.8	✓	689	18.2	17.8	18.0	✓
665	17.8	17.9	17.8	✓	690	17.9	17.6	17.7	✓
666	17.5	17.6	17.5	✓	691	17.2	16.8	17.0	✓
667	16.6 17.2	16.8 16.7	16.8	✓	692	17.8	17.7	17.8	✓
668	17.5	17.6	17.6	✓	693	16.8	16.4	16.6	✓
669	18.3	18.2	18.3	✓	694	17.9	17.8	17.9	✓
670	18.4	18.3	18.4	✓	695	17.8	17.8	17.8	✓
671	17.8	17.5	17.7	✓	696	18.1	17.8	18.0	✓
672	18.1	18.1	18.1	✓	697	16.7	16.5	16.6	✓
673	18.2	18.1	18.2	✓	698	17.8	17.5	17.7	✓
674	17.6	17.4	17.5	✓	699	18.3	17.9	18.1	✓
675	18.2	18.1	18.1	✓	700	18.0	17.8	17.9	✓
676	18.3	18.4	18.4	✓	701	18.1	17.9	18.0	✓
677	18.3	18.2	18.3	✓	702	18.2	18.1	18.2	✓
678	17.6	17.5	17.6	✓	703	18.6	18.6	18.6	✓ <i>FWWneb?</i>
679	17.3	17.1	17.2	✓	704	17.5	17.5	17.5	✓ <i>same as 14358 *NF</i>
680	17.9	18.0	17.9	✓	705	17.8 18.6	18.0 17.9	18.1	✓
681	18.4	18.5	18.4	✓	708	18.4	18.2	18.3	✓ <i>} pair</i>
682	18.0	18.3	18.1	✓	707	16.8	16.8	16.8	✓
683	17.4	17.5	17.4	✓	708	18.6			✓ <i>neb?</i>
684	17.6	17.7	17.7	✓	709	17.2	17.2	17.2	✓
685	16.2	15.8	16.0	✓	710	18.2	17.9	18.1	✓
686	16.6	16.4	16.5	✓	711	18.0	17.9	18.0	✓

S Q U A R E 12								
				736	18.5	18.6	18.5	
712	18.1	18.3	18.2	737	18.6	18.8	18.7	
713	18.2	17.9	18.0	738	17.3	17.5	17.4	
714	18.7	18.7	18.7	739	18.7	18.6	18.7	
715	17.9	17.8	17.9	740	18.7	18.8	18.8	
716	17.4	17.2	17.3	741	18.5	18.2	18.3	
717	18.1	17.9	18.0	742	18.4	18.0	18.2	
718	15.0	15.0	15.0	743	18.6	18.8	18.7	
719	18.2	18.1	18.2	744	16.5	16.6	16.5	
720	18.3	17.9	18.1	745	17.4	17.1	17.2	
721	17.7	17.9	17.8	746	18.5	18.6	18.5	
722	17.2	16.9	17.1	747	17.9	18.0	18.0	
723	18.4	18.1	18.3	748	18.2	18.0	18.1	
724	18.5	18.5	18.5	749	18.2	18.3	18.3	
725	16.9	16.9	16.9	750	18.1	18.0	18.1	
726	18.2	18.2	18.2	751	16.7	16.9	16.8	
727	17.2	17.1	17.2	752	17.2	17.1	17.2	
728	17.5	17.5	17.5	753	17.3	17.2	17.3	
729	17.8	17.7	17.7	754	17.2	16.8	17.0	
730	18.2	18.2	18.2	755	17.8	17.7	17.8	
731	18.6	18.8	18.7	756	18.2	18.2	18.2	
732	17.5	17.5	17.5	757	18.5	18.5	18.5	
733	18.5	18.4	18.4	758	18.0	17.8	17.9	
734	18.7	18.7	18.7	759	17.8	17.7	17.7	
735	18.4	18.6	18.5	760	17.8	17.5	17.6	

Spinal on
Edge

br. * NP

neb?

} Pair

Pw or neb?

Spinal on
EdgeSpinal on
Edge

} Pair

761	18.6	18.8	18.7 ✓		784	18.6	18.6	18.6 ✓	18.5
762	18.2	18.5	18.3 ✓		785	17.6	17.3	17.5 ✓	17.6
763	18.1	18.3	18.2 ✓		786	17.8	17.9	17.9 ✓	
764	17.8	17.7	17.8 ✓		787	16.7	16.6	16.7 ✓	16.8
765	18.4	18.5	18.5 ✓		788	17.5	17.4	17.4 ✓	17.8
766	17.7	17.6	17.6 ✓		789	17.8 18.0	17.8 17.4	17.8 ✓	17.9 *P ✓
767	17.8	17.7	17.7 ✓		790	18.7	18.8	18.7 ✓	18.6
768	18.4	18.4	18.4 ✓		791	17.2	16.8	17.0 ✓	16.8
769	17.9	17.8	17.8 ✓		792	18.3	17.9	18.1 ✓	18.0
770	18.6	18.7	18.7 ✓		793	16.8	16.6	16.7 ✓	
771	17.6 17.7	17.6 17.1	17.5 ✓		794	18.7	18.8	18.8 ✓	18.8
772	18.4	18.4	18.4 ✓	neb? ✓	795	17.8	17.7	17.7 ✓	17.8
773	17.8	17.9	17.8 ✓	few neb? double * ✓	796	18.2	18.5	18.4 ✓	18.1
774	18.0	17.8	17.9 ✓		797	17.1	16.9	17.0 ✓	17.0
775	17.2	17.2	17.2 ✓		798	17.6	17.4	17.5 ✓	17.8
776	16.5	16.8	16.7 ✓		799	18.1	17.8	17.9 ✓	17.9
777	17.3	17.2	17.2 ✓		800	18.4	18.6	18.5 ✓	18.1
778	18.0 18.4	18.0 17.9	18.1 ✓		801	17.8	17.7	17.8 ✓	17.8
779	17.9	17.7	17.8 ✓		802	18.3	17.9	18.1 ✓	17.9
780	17.2	17.2	17.2 ✓	spiral on Edge	803	18.7	18.6	18.7 ✓	18.4
781	18.5	18.2	18.3 ✓		804	18.2	18.5	18.4 ✓	18.0 *NP
N175	215.0	215.0	215.0 ✓		805	17.5	17.4	17.4 ✓	
SQUARE 13					806	18.6	18.6	18.6 ✓	18.4
782	18.6	18.6	18.6 ✓		807	18.1	17.9	18.0 ✓	18.0
783	18.5	18.4	18.5 ✓		808	17.5	17.8	17.7 ✓	17.8 } Pair

809	18.4 18.3	17.8 17.8	18.1 ✓	17.9	834	17.8	17.8	17.8 ✓	17.8
810	18.2	18.0	18.1 ✓	17.9	835	18.0	17.9	18.0 ✓	17.9 mel?
811	18.4	18.8	18.6 ✓	18.3	836	17.8	17.7	17.7 ✓	17.8
812	18.6	18.3	18.4 ✓	18.6	837	17.5	17.4	17.4 ✓	
813	18.4	18.2	18.3 ✓	18.1	838	17.7	17.7	17.7 ✓	17.8
814	18.7	18.4	18.5 ✓	18.4	839	17.5	17.1	17.3 ✓	17.6
815	17.5	17.2	17.3 ✓	17.5	840	18.5	18.8	18.7 ✓	18.8
816	17.6	17.8	17.7 ✓	17.9	841	17.6 17.7	17.6 17.6	17.6 ✓	
817	18.6	18.4	18.5 ✓	18.1	842	18.7	18.6	18.6 ✓	
818	17.5	17.5	17.5 ✓	17.8	843	18.4	18.5	18.5 ✓	
819	17.5	17.5	17.5 ✓	17.8	844	17.8	17.8	17.8 ✓	
820	18.6	18.6	18.6 ✓	18.5	845	17.6	17.7	17.6 ✓	* SF
821	17.8	17.7	17.8 ✓	17.9	846	18.5	18.2	18.3 ✓	
822	17.7	17.9	17.8 ✓	17.9	847	18.2	17.9	18.0 ✓	
823	17.3	17.4	17.3 ✓		848	17.2	17.0	17.1 ✓	
824	17.2	17.2	17.2 ✓		849	17.8	17.7	17.7 ✓	
825	17.6	17.2	17.4 ✓	17.8	850	17.1	17.4	17.3 ✓	FSB
826	18.5	18.6	18.6 ✓	18.5	851	18.3	18.2	18.3 ✓	
827	18.3	18.3	18.3 ✓	18.0	852	18.2	17.8	18.0 ✓	
828	16.7	16.6	16.6 ✓		853	18.6	18.3	18.4 ✓	
829	18.6	18.8	18.7 ✓	18.4	854	17.3	17.2	17.3 ✓	
830	18.5	18.7	18.6 ✓	18.6	855	17.2	17.3	17.2 ✓	
831	18.6	18.6	18.6 ✓	18.5	856	17.8	17.7	17.7 ✓	
832	18.0	18.2	18.1 ✓	18.0	857	18.5	18.3	18.4 ✓	
833	17.6	17.7	17.6 ✓		858	17.0	16.9	17.0 ✓	

859	18.1	18.2	18.2	* SP ✓	883	18.2	18.1	18.2	✓
SQUARE 14					884	18.6	18.7	18.7	✓
860	17.8	17.4	17.6	✓	885	18.4	18.0	18.2	✓
861	17.8	17.7	17.8	✓	886	18.3	18.0	18.2	✓
862	17.2	17.5	17.1	✓	887	18.2	17.8	18.0	✓
863	18.1	18.5	18.2	✓	888	16.6	16.8	16.7	✓
864	18.4	17.8	18.2	✓	889	18.6	18.2	18.4	✓
865	18.7	18.6	18.7	✓	890	17.6	17.4	17.5	✓
866	18.1	17.7	17.9	✓	891	18.2	17.9	18.1	✓
867	18.0	17.8	17.9	✓	892	17.9	17.7	17.8	✓
868	18.6	18.7	18.7	✓	893	18.3	18.3	18.3	✓
869	18.6	18.6	18.6	✓	894	17.8	17.8	17.8	✓
870	18.1	17.9	18.0	✓	895	17.8	17.8	17.8	✓
871	18.4	18.2	18.3	✓	896	18.0	17.8	17.9	✓
872	18.2	18.2	18.2	✓	897	18.6	18.8	18.7	✓
873	17.9	17.8	17.8	✓	898	17.5	17.8	17.6	✓
874	17.7	17.7	17.7	✓	899	18.3	18.0	18.1	✓
875	17.4	17.4	17.4	✓	900	18.7	18.8	18.7	✓
876	17.4	17.4	17.4	✓	901	18.3	18.0	18.1	✓
877	16.9	16.8	16.9	✓	902	17.0	16.8	16.9	✓
878	18.5	18.5	18.5	✓	903	18.7	18.3	18.5	✓
879	18.1	17.8	18.0	✓	904	17.2	16.9	17.0	✓
880	18.3	18.1	18.2	✓	905	18.5	18.1	18.3	✓
881	17.6	17.2	17.4	✓	906	18.8	18.8	18.8	✓
882	18.3	18.3	18.2	✓	907	17.2	17.2	17.2	✓
883	18.3	17.8	18.2	✓	908	17.6	17.5	17.6	✓
884	18.6	18.6	18.6	✓					
885	18.4	18.4	18.4	✓					
886	18.3	18.3	18.3	✓					
887	18.2	18.2	18.2	✓					
888	16.6	16.6	16.6	✓					
889	18.6	18.6	18.6	✓					
890	17.6	17.6	17.6	✓					
891	18.2	18.2	18.2	✓					
892	17.9	17.9	17.9	✓					
893	18.3	18.3	18.3	✓					
894	17.8	17.8	17.8	✓					
895	18.0	18.0	18.0	✓					
896	18.6	18.6	18.6	✓					
897	17.5	17.5	17.5	✓					
898	18.3	18.3	18.3	✓					
899	18.7	18.7	18.7	✓					
900	18.3	18.3	18.3	✓					
901	17.0	16.8	16.9	✓					
902	18.7	18.3	18.5	✓					
903	17.2	16.9	17.0	✓					
904	18.5	18.1	18.3	✓					
905	18.8	18.8	18.8	✓					
906	17.2	17.2	17.2	✓					
907	17.6	17.5	17.6	✓					

} pair ✓

apical on
Edge * F ✓

neb? ✓

apical on
Edge ✓

908	17.9	17.7	17.8	*NF	933	17.3	17.5	17.4	spiral on edge
909	18.4	18.7	18.6		934	18.2	18.2	18.2	
910	17.4	17.4	17.4		935	17.4	17.7	17.6	
911	18.6	18.4	18.5		936	17.0	17.0	17.0	
912	18.5	18.6	18.6		937	16.8	16.6	16.7	
913	18.6	18.6	18.6		938	18.1	17.9	18.0	
914	18.5	18.6	18.5		939	18.0	17.8	17.9	
915	17.9	18.3	18.1		940	17.8	17.8	17.8	
916	18.1	17.9	18.0		941	18.2	18.2	18.2	
917	18.6	18.4	18.5		942	15.4 - 1	15.5	15.5	15.6
918	17.3	17.3	17.3	neb?	943	17.3	17.3	17.3	
919	18.3	17.9	18.1		944	18.7	18.4	18.6	
920	17.0	16.9	17.0		945	18.3	18.0	18.1	
921	17.5	17.7	17.6		946	18.6	18.5	18.6	
922	18.4	18.2	18.3		947	18.4	18.2	18.3	
923	18.3	18.2	18.3		948	18.5	18.5	18.5	
924	18.4	18.5	18.4		949	17.9	18.1	18.0	
925	17.1	17.1	17.1		950	18.2	18.3	18.3	
926	17.6	17.6	17.6		951	17.9	18.2	18.0	
927	17.9	17.8	17.9		952	17.5	17.6	17.5	
928	17.2	17.6	17.4		953	17.8	18.0	17.9	spiral on edge
929	17.9	17.9	17.9		954	17.1	16.7	16.9	spiral on edge
930	17.4	17.2	17.3		955	18.2	18.1	18.2	
931	18.2	17.9	18.0		956	17.9	17.8	17.9	
932	17.4	17.7	17.5		957	15.8 - 1	15.9	15.9	
					958	18.1	17.9	18.0	

SQUARE 15

				983	17.7	18.0	17.9 ✓	
959	18.4	18.3	18.3 ✓	* NF ✓	984	18.3	18.0	18.2 ✓
960	18.5	18.5	18.5 ✓		985	17.6	17.7	17.7 ✓
961	16.6 17.1	16.7 16.6	16.7 ✓		986	17.7	17.7	17.7 ✓
962	15.7	15.5	15.6 ✓		987	18.4	18.4	18.4 ✓
963	16.6	16.6	16.6 ✓		988	17.3	17.7	17.5 ✓
964	17.3	17.6	17.4 ✓		989	17.3	17.6	17.4 ✓
965	17.6	17.7	17.7 ✓		990	18.0	17.9	17.9 ✓
966	18.4	18.2	18.3 ✓		991	17.8	17.6	17.7 ✓
967	16.9	17.0	17.0 ✓		992	18.4	18.6	18.5 ✓
968	16.5	16.8	16.7 ✓		993	18.2	18.2	18.2 ✓
969	18.3	18.4	18.4 ✓	bt. * NP ✓	994	18.2	18.4	18.3 ✓
970	17.9	17.8	17.9 ✓		995	17.9	17.8	17.8 ✓
971	18.0	17.8	17.9 ✓		996	17.8	17.8	17.8 ✓
972	18.4	18.2	18.3 ✓		997	17.3	17.1	17.2 ✓
973	18.6	18.4	18.5 ✓		998	17.5	17.7	17.6 ✓
974	17.0	16.6	16.8 ✓	spiral on edge bt. * S ✓	999	17.8	17.7	17.7 ✓
975	18.3	18.2	18.2 ✓		1000	18.0	17.7	17.8 ✓
976	15.6	15.7	15.7 ✓	15.8	01	17.3	17.5	17.4 ✓
977	18.4	18.1	18.2 ✓		02	17.9	17.7	17.8 ✓
978	17.3	17.5	17.4 ✓		03	18.0	18.1	18.1 ✓
979	18.5	18.5	18.5 ✓		04	18.3	18.5	18.4 ✓
980	18.6	18.6	18.6 ✓		05	15.2	15.5	15.4 ✓
981	18.3	18.2	18.3 ✓		06	15.6	15.8	15.7 ✓
982	17.5	17.8	17.6 ✓		1007	17.0 17.2	16.7 16.7	16.9 ✓

* SP ✓

between *'s ✓

15.5
15.0
} pair

1008	18.2	18.2	18.2 [✓]
09	17.5	17.4	17.5 [✓]
1010	17.3	17.4	17.4 [✓]
11	18.6	18.5	18.5 [✓]
12	17.1	17.2	17.2 [✓]
1013	17.8	17.6	17.7 [✓]

SQUARE 16

1014	17.5	17.5	17.5 [✓]
15	17.4	17.6	17.5 [✓]
16	17.5	17.5	17.5 [✓]
17	17.8	17.9	17.9 [✓]
18	18.3	18.2	18.2 [✓]
19	18.4	18.2	18.3 [✓]
1020	17.8	17.9	17.9 [✓]
21	17.5	17.5	17.5 [✓]
22	18.3	18.2	18.2 [✓]
23	17.5	17.7	17.6 [✓]
24	18.0	18.1	18.1 [✓]
25	17.4	17.5	17.4 [✓]
26	16.0 15.9	16.4 16.5	16.2 [✓]
27	17.0 17.1	17.5 17.6	17.3 [✓]
28	17.9	18.0	17.9 [✓]
29	17.0	17.1	17.0 [✓]
1030	18.1	18.0	18.1 [✓]
1031	17.9	18.1	18.0 [✓]

Fw wneb?

1032	18.1	18.1	18.1 [✓]
33	17.8	17.9	17.8 [✓]
34	18.0	17.9	17.9 [✓]
35	15.9 15.7	16.2 16.3	16.0 [✓]
36	18.3	17.9	18.1 [✓]
37	17.9	17.8	17.8 [✓]

Fw wneb?

38	16.8 16.7	17.1 17.5	17.0 [✓]
39	18.6	18.6	18.6 [✓]
1040	17.9	18.2	18.1 [✓]
41	15.7	16.0	15.8 [✓]
42	17.9	17.6	17.7 [✓]
43	18.6	18.6	18.6 [✓]
44	18.1	18.2	18.2 [✓]
1045	17.9	17.9	17.9 [✓]

neb?

SQUARE 17

1046	18.7	18.7	18.7 [✓]
47	18.8	18.8	18.8 [✓]
48	18.6	18.4	18.5 [✓]
49	17.5	17.5	17.5 [✓]
1050	18.5	18.6	18.5 [✓]
51	17.0	17.2	17.1 [✓]
52	17.8	17.8	17.8 [✓]
53	18.2	18.1	18.2 [✓]
54	18.7	18.6	18.7 [✓]
1055	18.6	18.2	18.4 [✓]

 } neb?
 Pair
 neb?

1056	17.3	17.6	17.4 ✓	1081	16.6	16.4	16.5 ✓
57	18.2	17.9	18.1 ✓	82	17.4	17.2	17.3 ✓
58	18.1	18.0	18.0 ✓	X SF ✓ 83	15.2	-2 15.4	15.3 ✓
59	18.3	18.0	18.1 ✓	84	18.0	17.9	18.0 ✓
1060	17.4	17.6	17.5 ✓	85	15.5	-3 15.8	15.7 ✓
61	18.2	17.9	18.0 ✓	86	16.3	16.4	16.4 ✓
62	18.7	18.8	18.7 ✓	87	18.1	18.2	18.1 ✓
63	17.8	18.2	18.0 ✓	88	18.0	17.8	17.9 ✓
64	17.7	17.8	17.8 ✓	89	18.1	17.9	18.0 ✓
65	18.3	18.4	18.3 ✓	1090	18.0	17.8	17.9 ✓
66	18.4	18.2	18.3 ✓	91	17.9	17.7	17.8 ✓
67	18.0	18.0	18.0 ✓	92	17.4	17.5	17.4 ✓
68	17.4	17.8	17.6 ✓	93	17.5	17.8	17.7 ✓
69	18.0	17.9	18.0 ✓	94	17.3	17.6	17.4 ✓
1070	18.2	18.2	18.2 ✓	95	18.4	18.0	18.2 ✓
71	18.5	18.3	18.4 ✓	96	18.3	18.4	18.3 ✓
72	18.4	18.1	18.3 ✓	97	18.6	18.7	18.6 ✓
73	15.7 15.1 -6	16.1 16.0	15.7 ✓	98	17.6	17.8	17.7 ✓
74	17.8	17.9	17.8 ✓	99	17.4	17.5	17.5 ✓
75	17.6	17.5	17.5 ✓	1100	18.6	18.5	18.6 ✓
76	17.5	17.7	17.6 ✓	01	18.2	18.2	18.2 ✓
77	17.6	17.7	17.6 ✓	02	17.8	17.9	17.9 ✓
78	17.6	17.9	17.7 ✓	03	18.7	18.7	18.7 ✓
79	115.0	115.0	115.0 ✓	04	18.1	18.3	18.2 ✓
1080	17.3	17.5	17.4 ✓	1105	16.3 16.5	16.8 17.0	16.7 ✓

Int. * SF

1106	18.6	18.6	18.6 ✓	1129	16.9	17.3	17.1 ✓
07	18.1	17.9	18.0 ✓	1130	18.4	18.4	18.4 ✓
08	18.6	18.5	18.6 ✓	31	17.8	17.7	17.8 ✓
1109	18.2	18.2	18.2 ✓	32	17.0	16.8	16.9 ✓
N209	115.0	115.0	115.0 ✓	33	18.6	18.5	18.5 ✓
SQUARE 18				34	17.5	17.7	17.6 ✓
1110	18.7	18.5	18.6 ✓	35	18.4	18.4	18.4 ✓
11	18.3	18.3	18.3 ✓	36	18.6	18.5	18.6 ✓
12	15.8 -	15.9	15.8 ✓	37	18.5	18.6	18.5 ✓
13	17.9 18.5	18.1 18.0	18.1 ✓	38	17.4	17.7	17.6 ✓
14	18.6	18.5	18.5 ✓	39	18.5	18.2	18.3 ✓
15	18.5	18.5	18.5 ✓	1140	18.3	18.5	18.4 ✓
16	17.6	17.6	17.6 ✓	41	17.0	17.2	17.1 ✓
17	17.5	17.9	17.7 ✓	42	17.5	17.6	17.6 ✓
18	18.7	18.5	18.6 ✓	43	18.6	18.6	18.6 ✓
19	17.5	17.3	17.4 ✓	44	18.3	18.1	18.2 ✓
1120	18.6	18.6	18.6 ✓	45	17.1	17.4	17.3 ✓
21	18.5	18.5	18.5 ✓	46	18.7	18.6	18.6 ✓
22	17.7	17.9	17.8 ✓	47	18.6	18.6	18.6 ✓
23	18.2	18.5	18.4 ✓	48	18.8	18.6	18.7 ✓
24	17.3	17.5	17.4 ✓	49	18.1	18.2	18.1 ✓
25	16.7	16.6	16.6 ✓	1150	18.2	17.9	18.0 ✓
26	18.6	18.5	18.5 ✓	51	18.6	18.5	18.5 ✓
27	18.1	18.2	18.2 ✓	52	18.5	18.6	18.6 ✓
1128	17.8	17.9	17.9 ✓	1153	17.3	17.5	17.4 ✓

1142 } pair
1145 }

1154	18.4	18.2	18.3 ✓	1179	18.3	18.2	18.3 ✓
55	18.3	18.0	18.3 ✓	1180	18.4	18.5	18.4 ✓
56	18.3	18.1	18.2 ✓	81	17.6	17.8	17.7 ✓
57	16.7	17.1	16.9 ✓	82	18.3 18.6	18.1 17.9	18.2 ✓
58	17.8	17.7	17.8 ✓	83	18.5	18.2	18.3 ✓
59	18.4	18.4	18.4 ✓	84	17.8	17.7	17.8 ✓
1160	18.1	17.9	18.0 ✓	85	18.0	17.8	17.9 ✓
61	17.3	17.6	17.5 ✓	86	17.4	17.5	17.5 ✓
62	18.1 18.4	17.8 17.9	18.1 ✓	87	17.0	17.1	17.0 ✓
63	17.9	18.1	18.0 ✓	88	15.7 -1	15.8	15.7 ✓
64	17.6	17.8	17.7 ✓	89	18.6	18.3	18.4 ✓
65	18.6	18.6	18.6 ✓	1190	18.1	17.9	18.0 ✓
66	16.8	16.8	16.8 ✓	91	17.7	17.8	17.7 ✓
67	18.4	18.2	18.3 ✓	92	18.0	17.8	17.9 ✓
68	17.3	17.5	17.4 ✓	93	17.8	17.8	17.8 ✓
69	18.3	18.1	18.2 ✓	94	18.2	18.1	18.2 ✓
1170	18.6	18.4	18.5 ✓	95	17.3	17.7	17.5 ✓
71	17.0	17.1	17.0 ✓	96	18.5	18.5	18.5 ✓
72	18.6	18.2	18.4 ✓	97	18.2	18.2	18.2 ✓
73	18.6	18.5	18.5 ✓	98	18.3	18.3	18.3 ✓
74	17.7	17.8	17.7 ✓	99	17.4	17.5	17.5 ✓
75	17.9	17.7	17.9 ✓	1200	18.0 18.5	18.1 17.9	18.1 ✓
76	17.1	17.1	17.1 ✓	01	16.7	16.9	16.8 ✓
77	18.4	18.6	18.5 ✓	02	17.2	17.5	17.4 ✓
1178	18.2	18.3	18.2 ✓	1203	17.4	17.6	17.5 ✓

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204	17.9	18.0	17.9 ✓	} Pair	1228	18.7	18.7	18.7 ✓	
05	17.6	17.9	17.8 ✓		29	17.8	18.0	17.9 ✓	
06	17.8	17.7	17.7 ✓		1230	17.7	17.8	17.7 ✓	
07	17.6	17.7	17.6 ✓		31	17.3	17.3	17.3 ✓	
08	17.7	17.6	17.7 ✓		32	17.5	17.8	17.6 ✓	
09	17.2	17.5	17.4 ✓		33	18.0	17.9	17.9 ✓	
1210	18.2 18.4	18.1 17.8	18.1 ✓		34	18.3	18.1	18.2 ✓	*SF ✓
11	17.8	17.9	17.9 ✓		35	18.5	18.2	18.4 ✓	
12	16.6	16.9	16.8 ✓		36	17.9	17.8	17.9 ✓	
1213	18.6	18.6	18.6 ✓		37	17.9 18.4	18.1 17.9	18.1 ✓	
SQUARE 19					38	17.5	17.6	17.6 ✓	
1214	17.2	17.6	17.4 ✓		39	17.6	17.6	17.6 ✓	
15	16.6 16.7	17.1 17.5	16.9 ✓		1240	18.0	18.2	18.1 ✓	
16	18.3	18.1	18.2 ✓		41	17.5	17.7	17.6 ✓	
17	16.3 15.9	16.8 16.5	16.4 ✓		42	15.7 15.4 -4	15.9 16.0	15.8 ✓	Spinal on Edge
18	18.0	18.0	18.0 ✓		43	18.1	18.2	18.1 ✓	
19	18.4	18.1	18.3 ✓		44	18.3	18.4	18.4 ✓	
1220	17.8	17.8	17.8 ✓	near YA 19759 *SP ✓	45	18.5	18.5	18.5 ✓	
21	18.3	18.5	18.4 ✓		46	17.8	17.8	17.8 ✓	
22	17.0 17.0	17.6 17.5	17.3 ✓		47	17.9	17.9	17.9 ✓	
23	17.3	17.5	17.4 ✓	Spinal on Edge	48	17.2	17.6	17.4 ✓	few neb? double *?
24	17.4	17.7	17.6 ✓		49	16.2	16.6	16.4 ✓	Spinal on Edge
25	17.2	17.4	17.3 ✓	lit. *P	1250	18.5	18.4	18.5 ✓	
26	18.4	18.1	18.3 ✓		51	17.3	17.6	17.4 ✓	
1227	18.2	17.9	18.0 ✓	Spinal on Edge	1252	18.7	18.6	18.7 ✓	

1253	18.5	18.2	18.3 ✓	1278	18.6	18.4	18.5 ✓
54	17.3	17.4	17.4 ✓	79	18.5	18.6	18.5 ✓
55	17.2	17.5	17.3 ✓	1280	18.6	18.5	18.6 ✓
56	17.8	17.8	17.8 ✓	81	18.2	18.2	18.2 ✓
57	18.2	18.1	18.2 ✓	82	18.1	17.9	18.0 ✓
58	18.6	18.6	18.6 ✓	83	17.7	17.8	17.7 ✓
59	18.2	18.1	18.1 ✓	1284	18.5	18.1	18.3 ✓
1260	18.6	18.6	18.6	S Q U A R E 2 0			
61	17.8	17.8	17.8 ✓	1285	16.6	16.8	16.7 ✓
62	16.8 16.7	16.9 17.5	17.0 ✓	86	18.2	18.0	18.1 ✓
63	17.8	17.8	17.8 ✓	87	17.6	17.6	17.6 ✓
64	17.5	17.7	17.6 ✓	88	17.9	18.2	18.0 ✓
65	17.8	17.9	17.8 ✓	89	15.0	15.3	15.1 ✓
66	17.0 16.4	16.9 17.2	16.9 ✓	1290	18.6	18.2	18.4 ✓
67	16.6	17.0	16.8 ✓	91	18.3	18.0	18.2 ✓
68	16.6 15.7	16.8 16.8	16.5 ✓	92	17.6	17.7	17.7 ✓
69	17.6	17.8	17.7 ✓	93	18.2	17.8	18.0 ✓
1270	17.3	17.4	17.3 ✓	94	18.5	18.3	18.4 ✓
71	17.9	17.8	17.8 ✓	95	18.4	18.6	18.5 ✓
72	17.6	17.6	17.6 ✓	96	17.2 16.9	17.5 17.4	17.3 ✓
73	16.5	16.7	16.6 ✓	97	18.5	18.2	18.4 ✓
74	18.3	18.1	18.2 ✓	98	17.4	17.7	17.5 ✓
75	18.5	18.5	18.5 ✓	99	17.0	17.2	17.1 ✓
76	18.3	18.6	18.5 ✓	1300	17.1	17.3	17.2 ✓
1277	18.2	18.5	18.4 ✓	1301	17.7	17.6	17.6 ✓

1302	17.9	18.0	17.9	✓	1326	18.2	18.4	18.3	✓
03	18.3	18.2	18.2	✓	27	17.1	17.3	17.2	✓
04	17.2	17.6	17.4	✓	28	18.1	18.3	18.2	✓
05	16.5	16.8	16.7	✓	29	17.9	18.0	18.0	✓
06	17.5	17.3	17.4	✓	1330	18.0	17.9	17.9	✓
07	18.3	18.0	18.2	✓	31	18.0	17.9	18.0	✓
08	17.3	17.6	17.5	✓	32	18.5	18.5	18.5	✓
09	18.6	18.5	18.6	✓	33	17.6	17.7	17.7	✓ not of A 19759 *5
1310	17.5	17.8	17.7	✓	34	18.3	18.2	18.2	✓
11	18.4	18.2	18.3	✓	35	17.1	17.4	17.3	✓
12	18.6	18.5	18.6	✓	36	17.5	17.5	17.5	✓ neb?
13	18.2 17.9	17.6 17.4	17.8	✓	37	17.7	17.6	17.6	✓
14	18.3	18.0	18.1	✓	1338	17.9	17.6	17.7	✓
15	17.3	17.4	17.4	✓	SQUARE 22				
16	17.1	17.3	17.2	✓	1339	15.9 15.3	16.4 16.2	16.0	✓
1317	17.2	17.4	17.3	✓	1340	16.8	16.7	16.8	✓
SQUARE 21					41	18.6	18.4	18.5	✓
1318	17.5	17.6	17.6	✓	42	18.5	18.5	18.5	✓
19	18.2	17.9	18.1	✓	43	18.4	18.4	18.4	✓
1320	15.1 15.4	16.3 16.3	15.8	✓	44	17.9	17.9	17.9	✓
21	17.7			✓ neb?	45	16.0 15.4	16.1 16.1	15.9	✓
22	18.1	17.9	18.0	✓	46	16.7	17.1	16.9	✓
23	18.3	18.1	18.2	✓	47	18.3	18.1	18.2	✓
24	16.9	16.7	16.8	✓	48	17.9	18.1	18.0	✓
1325	15.8	16.4	16.1	✓	1349	17.0	17.2	17.1	✓

1350	18.6	18.8	18.7 ✓
51	16.9 16.6	17.0 17.4	17.0 ✓
52	15.2 15.0	15.3 15.3	15.3 ² ✓
53	18.2	17.8	18.0 ✓
54	18.0 18.5	18.0 18.0	18.1 ✓
55	16.5	16.6	16.5 ✓
56	17.7	17.7	17.7 ✓
57	17.1	17.5	17.3 ✓
58	17.8	17.8	17.8 ✓
59	15.4	15.7	15.6 ✓
1360	15.3	15.7	15.5 ✓
61	18.5	18.2	18.3 ✓
62	17.8	18.1	18.0 ✓
63	18.0	17.9	17.9 ✓
64	17.4	17.5	17.4 ✓
65	17.8	17.6	17.7 ✓
66	17.1	17.2	17.1 ✓
67	18.3	18.0	18.2 ✓
68	17.6	17.5	17.5 ✓
69	17.8	17.7	17.8 ✓
1370	18.1	18.1	18.1 ✓
71	18.5	18.7	18.6 ✓
72	17.3	17.4	17.3 ✓
73	18.6	18.5	18.6 ✓
1374	17.8	17.7	17.7 ✓

} pair

SQUARE 23

1375	17.6	17.6	17.6 ✓
1376	17.8	17.8	17.8 ✓
N179	15.0	15.0	15.0 ✓
1377	17.8	17.8	17.8 ✓
78	18.4	18.2	18.3 ✓
79	18.0	18.2	18.1 ✓
1380	17.2	17.5	17.4 ✓
81	17.8	17.9	17.9 ✓
82	18.1	18.0	18.0 ✓
83	17.7	17.7	17.7 ✓
84	16.8	17.0	16.9 ✓
85	17.3	17.4	17.3 ✓
86	17.4	17.4	17.4 ✓
87	17.0	17.1	17.0 ✓
88	17.8	17.7	17.7 ✓
89	18.3 18.6	18.5 18.1	18.4 ✓
1390	17.4	17.6	17.5 ✓
91	17.8	17.9	17.8 ✓
92	18.5	18.6	18.5 ✓
93	15.0	15.0	15.0 ✓
94	17.9	17.7	17.8 ✓
95	18.2	17.9	18.0 ✓
96	18.3	17.9	18.1 ✓
1397	18.2	17.9	18.1 ✓

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} pair

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yA19759 spiral on
edge

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1398	17.9	17.9	17.9 ✓	1423	17.9	17.7	17.8 ✓	14	
99	17.3	17.6	17.4 ✓	24	18.1	17.9	18.0 ✓	4	
1400	16.4 16.0	16.8 16.5	16.4 ✓	25	17.3	17.5	17.4 ✓	4	
01	18.3	18.2	18.3 ✓	26	15.7 16.1	16.9 16.6	16.3 ✓	14	
02	18.2	17.9	18.0 ✓	27	17.8	17.5	17.6 ✓	5	
03	18.5 18.7	18.5 18.2	18.5 ✓	28	17.3	17.4	17.3 ✓	5	
04	18.6	18.5	18.5 ✓	29	17.8	17.6	17.7 ✓	5	
05	18.5	18.6	18.6 ✓	1430	18.0	17.7	17.8 ✓	5	
06	18.3	18.5	18.4 ✓	31	17.7	17.4	17.5 ✓	5	
07	18.0 18.5	17.9 17.9	18.1 ✓	32	17.9	17.6	17.8 ✓	6	
08	17.5	17.6	17.5 ✓	33	18.6	18.5	18.5 ✓	5	
09	16.3	16.4	16.3 ✓	34	18.5	18.3	18.4 ✓	5	
1410	16.6	16.4	16.5 ✓	35	16.5	16.1	16.3 ✓	5	
11	18.3	18.1	18.2 ✓	1411 pair 1414	1436	16.0	15.7	15.8 ✓	14
12	17.3	17.7	17.5 ✓	SQUARE 24				6	
13	16.4	16.6	16.5 ✓	1437	17.8	17.6	17.7 ✓	6	
14	18.0	17.8	17.9 ✓	38	17.2	17.4	17.3 ✓	6	
15	17.4	17.7	17.6 ✓	39	17.5	17.6	17.5 ✓	6	
16	18.6	18.8	18.7 ✓	1440				6	
17	15.7	15.6	15.7 ✓	41	17.0	17.4	17.2 ✓	6	
18	17.8	17.6	17.7 ✓	42	18.6	18.7	18.6 ✓	6	
19	17.6	17.5	17.5 ✓	43	17.9	18.2	18.1 ✓	6	
1420	15.5 15.0	15.0 15.5	15.3 ✓	44	15.9 15.4	16.7 16.2	16.0 ✓	6	
21	18.3	18.0	18.2 ✓	45	18.2	18.1	18.2 ✓	142	
1422	17.8	17.7	17.7 ✓	1446	16.6	17.0	16.8 ✓	14	

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SQUARE 24

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1447	18.3	18.2	18.3 [✓]	1472	18.3	18.0	18.2 [✓]
48	17.6	17.9	17.8 [✓]	73	17.6	17.8	17.7 [✓]
49	18.0	17.9	17.9 [✓]	74	17.7	17.7	17.7 [✓]
1450	18.5	18.5	18.5 [✓]	1475			
51	18.6	18.2	18.4 [✓]	76	17.9	17.8	17.9 [✓]
52	17.8	17.8	17.8 [✓]	77	18.3	18.0	18.2 [✓]
53	17.5	17.6	17.6 [✓]	78	17.4	17.5	17.5 [✓]
54	17.7	17.5	17.6 [✓]	79	17.5	17.5	17.5 [✓]
55	17.6	17.5	17.5 [✓]	1480	18.2	17.9	18.0 [✓]
66	18.0	17.9	18.0 [✓]	81	18.4	18.0	18.2 [✓]
57	18.1	17.9	18.0 [✓]	82	17.3	17.5	17.4 [✓]
58	17.2	17.4	17.3 [✓]	83	18.3 18.7	18.4 18.2	18.4 [✓]
59	15.4	15.8	15.6 [✓]	84	17.7	17.5	17.6 [✓]
1460	17.5	17.6	17.5 [✓]	85	17.7 17.5	17.6 18.0	17.7 [✓]
61	16.9 16.7	17.1 17.4	17.0 [✓]	86	17.7	17.9	17.8 [✓]
62	17.9	17.8	17.8 [✓]	87	18.2	18.0	18.1 [✓]
63	17.4	17.6	17.5 [✓]	88	17.6	17.8	17.7 [✓]
64	17.8	17.8	17.8 [✓]	89	18.1	18.0	18.1 [✓]
65	17.9	17.9	17.9 [✓]	1490	17.9	17.9	17.9 [✓]
66	17.8	18.2	18.0 [✓]	91	16.0	15.6	15.8 [✓]
67	17.7	17.8	17.7 [✓]	92	18.0	18.2	18.1 [✓]
68	18.1	17.8	18.0 [✓]	93	18.1	18.1	18.1 [✓]
69	17.8	17.7	17.7 [✓]	94	18.4	18.5	18.4 [✓]
1470	18.0	18.2	18.1 [✓]	95	17.8	17.7	17.7 [✓]
1471	17.9	18.3	18.1 [✓]	1496	17.7	17.6	17.6 [✓]

Fwmsel?

*NF

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497	17.4	17.3	17.3 ✓
98	17.8	17.8	17.8 ✓
1499	17.4	17.5	17.4 ✓

SQUARE 25

1500	18.6	18.7	18.7 ✓
01	17.5	17.6	17.6 ✓
02	17.1	17.5	17.3 ✓
03	17.9	17.8	17.9 ✓
04	18.3	18.1	18.2 ✓
05	16.6 16.7	17.1 17.5	17.0 ✓
06	18.0	18.0	18.0 ✓
07	16.6	17.3	17.0 ✓
08	17.9	17.8	17.9 ✓
09	18.0	18.5	18.2 ✓
1510	18.0	18.0	18.0 ✓
11	18.2	18.0	18.1 ✓
12	18.3	18.3	18.3 ✓
13	18.4	18.6	18.5 ✓
14	18.3	18.2	18.3 ✓
15	17.9	18.0	18.0 ✓
16	16.6	17.0	16.8 ✓
17	18.1	17.9	18.0 ✓
18	18.4	18.0	18.2 ✓
19	17.8	17.9	17.9 ✓
1520	17.7	18.0	17.8 ✓

Spinal on
Edge

1532

1521	16.9	17.1	17.0 ✓
22	18.6	18.7	18.7 ✓
23	17.7	17.6	17.6 ✓
24	18.2	17.7	17.9 ✓
25	18.0	17.8	17.9 ✓
26	17.0	16.6	16.8 ✓
27	17.3	17.3	17.3 ✓
28	17.5	17.6	17.6 ✓
29	16.9	17.0	16.9 ✓
1530	17.4	17.1	17.2 ✓
31	18.0	17.5	17.7 ✓

} Pair

870 7 277 149.7

1939phae.proj.230B