

AM-91-465

card 10/1

Crystal chemistry of Fe- and Cr-rich warwickite

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For deposit: Table 6

American Mineralogist, 76, 7-8, 1380-1388. pp. (8)

Table 6. List of the observed and calculated structure factors for the studied warwickites. (Deposited)

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR WARWICKITE 1

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	13	13	12	0	1	6	-6	0	0	2	7	7	5	3	2	40	-40	13	1	3	9	9
4	0	0	20	-20	13	0	1	14	13	1	0	2	41	-40	6	3	2	5	-4	1	2	3	36	35
6	0	0	38	-38	0	1	1	17	17	3	0	2	52	-52	7	3	2	6	-6	2	2	3	54	-54
8	0	0	67	67	1	1	1	4	-4	4	0	2	9	-9	9	3	2	16	17	3	2	3	15	-15
10	0	0	26	26	2	1	1	32	-32	5	0	2	25	25	10	3	2	7	8	4	2	3	12	-12
14	0	0	24	-24	3	1	1	43	43	6	0	2	9	10	1	4	2	11	-11	5	2	3	30	-29
2	1	0	126	-126	4	1	1	23	23	7	0	2	65	65	3	4	2	16	-16	6	2	3	32	33
4	1	0	32	-32	5	1	1	30	-30	8	0	2	10	11	5	4	2	6	7	7	2	3	4	4
6	1	0	41	41	6	1	1	7	8	9	0	2	12	11	6	4	2	3	3	8	2	3	12	12
8	1	0	26	25	7	1	1	17	-18	11	0	2	18	-17	7	4	2	23	23	9	2	3	10	10
10	1	0	33	-32	8	1	1	6	6	12	0	2	11	-10	1	0	3	57	-57	10	2	3	12	-12
12	1	0	26	-27	10	1	1	19	-19	1	1	2	11	-11	2	0	3	83	83	11	2	3	9	9
0	2	0	142	-141	11	1	1	17	18	2	1	2	8	-8	3	0	3	20	21	12	2	3	13	-14
2	2	0	10	-10	13	1	1	9	-9	3	1	2	60	59	4	0	3	18	19	0	3	3	30	-29
4	2	0	24	25	1	2	1	18	19	4	1	2	10	11	5	0	3	43	43	1	3	3	13	-12
6	2	0	25	25	2	2	1	5	5	5	1	2	79	79	6	0	3	46	-47	2	3	3	10	-9
8	2	0	48	-48	3	2	1	9	-9	6	1	2	7	7	7	0	3	5	-6	3	3	3	29	-29
10	2	0	19	-19	4	2	1	12	12	7	1	2	11	11	8	0	3	17	-17	4	3	3	40	39
2	3	0	57	57	5	2	1	22	-22	9	1	2	28	-28	9	0	3	14	-14	5	3	3	10	10
4	3	0	15	14	6	2	1	6	-6	10	1	2	13	-12	10	0	3	17	16	6	3	3	5	5
6	3	0	23	-23	7	2	1	15	15	13	1	2	18	18	11	0	3	12	-12	7	3	3	8	8
8	3	0	14	-14	8	2	1	15	-15	0	2	2	4	-4	12	0	3	18	17	8	3	3	9	-9
10	3	0	20	20	9	2	1	15	16	1	2	2	29	29	13	0	3	13	13	10	3	3	12	-12
0	4	0	53	54	0	3	1	5	-4	3	2	2	37	37	0	1	3	51	52	1	4	3	14	-15
2	4	0	4	4	2	3	1	12	12	4	2	2	7	7	1	1	3	20	20	2	4	3	24	24
4	4	0	11	-12	3	3	1	19	-19	5	2	2	16	-16	2	1	3	22	22	3	4	3	7	7
6	4	0	11	-11	4	3	1	9	-9	6	2	2	6	-7	3	1	3	64	64	5	4	3	13	-12
1	0	1	27	-27	5	3	1	14	14	7	2	2	46	-46	4	1	3	79	-79	6	4	3	16	-16
3	0	1	9	10	6	3	1	5	-5	8	2	2	8	-8	5	1	3	19	-20	0	0	4	15	-15
4	0	1	19	-18	7	3	1	12	11	9	2	2	8	-8	6	1	3	10	-10	1	0	4	14	-14
5	0	1	31	32	10	3	1	11	12	11	2	2	13	14	7	1	3	14	-14	2	0	4	69	-69
6	0	1	9	10	1	4	1	9	-8	12	2	2	8	8	8	1	3	15	15	3	0	4	6	-5
7	0	1	22	-22	3	4	1	4	4	1	3	2	11	11	9	1	3	8	-8	4	0	4	11	11
8	0	1	20	20	4	4	1	5	-5	2	3	2	4	4	10	1	3	19	19	5	0	4	16	16
9	0	1	19	-20	5	4	1	11	11	3	3	2	24	-24	11	1	3	18	18	6	0	4	42	-41
10	0	1	7	6	7	4	1	7	-7	4	3	2	5	-5	12	1	3	17	-16	7	0	4	6	6

WARWICKITE 1 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
9	0	4	16	-16	5	4	4	6	6	1	3	5	22	21	11	2	6	13	14	3	2	7	14	13
10	0	4	16	-15	6	4	4	13	-15	3	3	5	20	20	1	3	6	31	31	5	2	7	7	6
11	0	4	9	-8	1	0	5	58	58	4	3	5	17	18	2	3	6	9	-8	6	2	7	6	-6
13	0	4	9	9	2	0	5	45	45	6	3	5	16	16	3	3	6	6	-6	7	2	7	8	-9
1	1	4	7	-7	3	0	5	17	-18	7	3	5	26	-26	5	3	6	9	-9	8	2	7	9	-9
2	1	4	15	15	4	0	5	12	13	8	3	5	17	-18	6	3	6	11	11	9	2	7	11	-11
3	1	4	15	15	5	0	5	40	-40	7	3	5	16	16	7	3	6	8	9	0	3	7	16	16
4	1	4	9	8	6	0	5	38	-38	2	4	5	14	14	9	3	6	14	15	1	3	7	19	18
5	1	4	5	5	8	0	5	23	-23	5	4	5	14	-14	0	4	6	8	-7	2	3	7	7	-8
7	1	4	14	-14	9	0	5	39	38	0	0	6	19	-18	1	4	6	15	-15	3	3	7	7	6
8	1	4	17	17	10	0	5	15	14	1	0	6	45	-45	3	4	6	14	-14	4	3	7	6	-6
9	1	4	7	-6	11	0	5	6	6	3	0	6	42	-42	4	4	6	6	6	6	3	7	12	-13
11	1	4	12	13	12	0	5	8	8	4	0	6	15	15	1	0	7	29	29	7	3	7	8	-8
12	1	4	12	12	13	0	5	8	-7	5	0	6	5	5	2	0	7	24	-23	1	4	7	11	11
0	2	4	10	10	0	1	5	48	49	7	0	6	19	19	3	0	7	16	-17	2	4	7	7	-8
1	2	4	9	9	1	1	5	45	-45	8	0	6	16	-16	4	0	7	6	-6	3	4	7	7	-7
2	2	4	36	36	2	1	5	7	-7	9	0	6	6	-7	5	0	7	9	-8	0	0	8	21	-20
3	2	4	5	4	3	1	5	38	-38	11	0	6	18	-18	6	0	7	8	8	1	0	8	8	8
4	2	4	8	-8	4	1	5	33	-33	12	0	6	8	7	7	0	7	11	11	2	0	8	16	-15
5	2	4	12	-11	6	1	5	27	-27	1	1	6	59	-59	8	0	7	12	13	3	0	8	13	13
6	2	4	29	28	7	1	5	44	44	2	1	6	14	14	9	0	7	14	14	4	0	8	70	70
7	2	4	5	-5	8	1	5	29	28	3	1	6	7	8	11	0	7	9	-8	5	0	8	4	-4
9	2	4	12	12	10	1	5	11	11	5	1	6	16	16	12	0	7	6	-5	6	0	8	25	24
10	2	4	11	12	11	1	5	18	-18	6	1	6	17	-18	0	1	7	29	-29	7	0	8	8	-7
11	2	4	6	7	12	1	5	6	-7	7	1	6	14	-13	1	1	7	31	-32	8	0	8	10	-10
1	3	4	4	4	1	2	5	37	-38	9	1	6	24	-23	2	1	7	13	14	10	0	8	24	-24
2	3	4	9	-8	2	2	5	30	-31	10	1	6	8	9	3	1	7	10	-10	11	0	8	7	6
3	3	4	8	-8	3	2	5	13	12	11	1	6	9	-9	4	1	7	10	11	1	1	8	8	9
4	3	4	3	-3	4	2	5	10	-10	0	2	6	14	13	5	1	7	5	4	2	1	8	42	42
5	3	4	4	-4	5	2	5	30	29	1	2	6	30	31	6	1	7	21	22	3	1	8	7	-7
7	3	4	9	8	6	2	5	27	27	3	2	6	28	29	7	1	7	14	13	4	1	8	19	19
8	3	4	10	-11	8	2	5	17	18	4	2	6	11	-11	8	1	7	4	-4	5	1	8	11	-11
9	3	4	5	5	9	2	5	29	-30	5	2	6	4	-4	9	1	7	15	-16	6	1	8	42	-41
1	4	4	5	-5	10	2	5	11	-12	7	2	6	14	-14	11	1	7	8	-9	8	1	8	26	-26
2	4	4	14	-15	11	2	5	5	-5	8	2	6	12	13	1	2	7	19	-21	10	1	8	7	8
4	4	4	4	4	0	3	5	25	-24	9	2	6	6	6	2	2	7	17	17	0	2	8	14	15

WARWICKITE 1 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO
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OBSERVED AND CALCULATED STRUCTURE FACTORS FOR WARWICKITE 3

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	12	12	2	1	1	30	-31	8	0	2	9	9	7	4	2	23	23	10	2	3	11	-11
4	0	0	14	-15	3	1	1	42	43	9	0	2	8	9	1	0	3	49	-50	11	2	3	8	8
6	0	0	34	-34	4	1	1	20	20	11	0	2	13	-14	2	0	3	77	78	12	2	3	12	-12
8	0	0	58	58	5	1	1	28	-28	12	0	2	8	-9	3	0	3	19	19	0	3	3	31	-31
10	0	0	21	21	6	1	1	7	6	1	1	2	8	-8	4	0	3	18	18	1	3	3	13	-13
14	0	0	16	-17	7	1	1	17	-16	2	1	2	10	-10	5	0	3	40	40	2	3	3	9	-9
2	1	0	120	-120	8	1	1	6	6	3	1	2	57	57	6	0	3	43	-42	3	3	3	29	-29
4	1	0	29	-29	10	1	1	16	-16	4	1	2	10	10	7	0	3	5	-5	4	3	3	39	39
6	1	0	36	36	11	1	1	14	15	5	1	2	73	72	8	0	3	14	-14	5	3	3	11	10
8	1	0	24	23	13	1	1	6	-6	6	1	2	7	6	9	0	3	12	-12	6	3	3	6	6
10	1	0	28	-28	1	2	1	19	19	7	1	2	10	10	10	0	3	12	13	7	3	3	9	9
12	1	0	21	-21	3	2	1	9	-9	9	1	2	23	-24	11	0	3	9	-9	8	3	3	10	-10
0	2	0	139	-139	4	2	1	13	12	10	1	2	10	-11	12	0	3	13	14	10	3	3	11	-11
2	2	0	10	-11	5	2	1	22	-22	13	1	2	13	13	13	0	3	10	10	1	4	3	15	-15
4	2	0	25	24	6	2	1	5	-5	0	2	2	6	-6	0	1	3	51	51	2	4	3	25	26
6	2	0	24	24	7	2	1	14	14	1	2	2	28	28	1	1	3	18	18	3	4	3	7	8
8	2	0	43	-43	8	2	1	13	-13	3	2	2	36	36	2	1	3	22	23	4	4	3	6	6
10	2	0	17	-17	9	2	1	13	13	4	2	2	8	7	3	1	3	59	59	5	4	3	14	15
2	3	0	59	59	2	3	1	12	12	5	2	2	16	-16	4	1	3	74	-73	6	4	3	17	-17
4	3	0	15	15	3	3	1	20	-20	6	2	2	6	-6	5	1	3	19	-18	0	0	4	14	-15
6	3	0	23	-23	4	3	1	8	-8	7	2	2	42	-42	6	1	3	9	-9	1	0	4	14	-14
8	3	0	13	-14	5	3	1	14	13	8	2	2	7	-7	7	1	3	14	-13	2	0	4	69	-68
10	3	0	18	19	6	3	1	6	-5	9	2	2	8	-7	8	1	3	14	14	3	0	4	7	-7
0	4	0	57	58	7	3	1	11	11	11	2	2	11	12	9	1	3	7	-7	4	0	4	11	10
4	4	0	15	-16	10	3	1	10	10	12	2	2	7	7	10	1	3	17	17	5	0	4	15	15
6	4	0	11	-12	1	4	1	8	-9	1	3	2	12	12	11	1	3	14	14	6	0	4	40	-39
1	0	1	26	-26	4	4	1	6	-6	2	3	2	6	5	12	1	3	11	-12	7	0	4	6	6
3	0	1	10	10	5	4	1	11	11	3	3	2	25	-25	13	1	3	7	6	9	0	4	12	-13
4	0	1	17	-17	7	4	1	9	-9	4	3	2	5	-5	1	2	3	33	33	10	0	4	12	-12
5	0	1	32	31	0	0	2	9	9	5	3	2	39	-39	2	2	3	53	-53	11	0	4	7	-7
6	0	1	8	7	1	0	2	36	-36	7	3	2	6	-5	3	2	3	15	-15	13	0	4	7	7
7	0	1	20	-19	3	0	2	47	-47	9	3	2	16	16	4	2	3	12	-12	1	1	4	8	-8
8	0	1	16	17	4	0	2	10	-10	10	3	2	8	7	5	2	3	29	-29	2	1	4	14	14
9	0	1	17	-16	5	0	2	25	24	1	4	2	12	-13	6	2	3	31	31	3	1	4	15	15
13	0	1	11	10	6	0	2	9	9	3	4	2	18	-18	8	2	3	11	11	4	1	4	9	8
0	1	1	18	19	7	0	2	57	57	5	4	2	8	7	9	2	3	10	9	5	1	4	6	6

WARWICKITE 3 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
7	1	4	13	-13	2	1	5	6	-6	11	0	6	14	-15	1	1	7	30	-30	4	1	8	17	17
8	1	4	14	15	3	1	5	34	-34	1	1	6	58	-57	2	1	7	13	12	5	1	8	10	-10
11	1	4	10	10	4	1	5	29	-28	2	1	6	14	14	3	1	7	10	-8	6	1	8	36	-36
12	1	4	10	9	6	1	5	25	-24	3	1	6	7	7	4	1	7	8	8	8	1	8	22	-22
13	1	4	7	6	7	1	5	39	38	5	1	6	13	13	6	1	7	17	17	10	1	8	6	6
0	2	4	11	10	8	1	5	24	25	6	1	6	16	-16	7	1	7	11	12	0	2	8	13	13
1	2	4	9	9	10	1	5	8	9	7	1	6	11	-11	9	1	7	13	-13	1	2	8	6	-6
2	2	4	35	35	11	1	5	14	-14	9	1	6	20	-21	11	1	7	6	-7	2	2	8	11	10
4	2	4	8	-7	1	2	5	36	-35	10	1	6	7	7	1	2	7	19	-18	3	2	8	9	-9
5	2	4	12	-11	2	2	5	30	-30	2	2	7	14	13	2	2	7	16	16	4	2	8	49	-49
6	2	4	27	26	3	2	5	13	13	1	2	6	30	29	3	2	7	14	14	6	2	8	16	-17
7	2	4	6	-5	4	2	5	10	-10	3	2	6	29	29	5	2	7	6	6	6	2	8	7	7
8	2	4	10	10	5	2	5	26	28	4	2	6	11	-11	6	2	7	4	-5	10	2	8	16	16
10	2	4	10	10	6	2	5	25	25	7	2	6	12	-13	7	2	7	7	-7	1	3	8	6	-5
1	3	4	5	5	8	2	5	15	15	8	2	6	11	11	9	2	7	9	-10	2	3	8	23	-24
2	3	4	8	-8	9	2	5	25	-25	11	2	6	12	13	0	3	7	16	16	4	3	8	10	-11
3	3	4	9	-8	10	2	5	9	-10	1	3	6	32	31	1	3	7	18	18	6	3	8	24	24
7	3	4	8	8	0	3	5	27	-26	2	3	6	9	-9	2	3	7	7	-6	1	0	9	9	9
8	3	4	10	-9	1	3	5	22	22	3	3	6	6	-6	3	3	7	6	6	2	0	9	18	-17
9	3	4	5	5	3	3	5	21	20	5	3	6	9	-9	6	3	7	10	-11	5	0	9	11	-11
0	4	4	6	-6	4	3	5	18	17	6	3	6	10	10	7	3	7	8	-8	5	0	9	12	-12
2	4	4	15	-14	6	3	5	14	14	7	3	6	7	7	1	4	7	10	10	1	1	9	19	-18
6	4	4	14	-13	7	3	5	24	-24	9	3	6	14	14	2	4	7	8	-8	4	1	9	8	7
1	0	5	51	51	8	3	5	16	-17	0	4	6	7	-7	3	4	7	7	-8	7	1	9	10	11
2	0	5	41	41	1	4	5	18	18	1	4	6	16	-15	0	0	8	15	-14	1	2	9	8	-7
3	0	5	17	-17	2	4	5	15	15	3	4	6	14	-15	1	0	8	8	7	3	2	9	13	14
4	0	5	12	12	3	4	5	7	-6	4	4	6	7	7	2	0	8	14	-14	5	2	9	8	9
5	0	5	38	-37	5	4	5	15	-15	1	0	7	26	25	3	0	8	12	12	0	3	9	7	-7
6	0	5	34	-33	0	0	6	18	-18	2	0	7	21	-21	4	0	8	65	64	1	3	9	11	12
8	0	5	18	-19	1	0	6	42	-41	3	0	7	17	-17	6	0	8	21	20	0	0	10	5	4
9	0	5	30	31	3	0	6	40	-39	5	0	7	8	-8	7	0	8	6	-7	1	0	10	21	21
10	0	5	11	12	4	0	6	15	15	6	0	7	7	6	8	0	8	8	-8	3	0	10	29	29
12	0	5	7	7	5	0	6	4	4	7	0	7	9	8	10	0	8	19	-19	5	0	10	10	-10
13	0	5	5	-6	7	0	6	17	16	8	0	7	10	11	1	1	8	9	9	7	0	10	10	-11
0	1	5	49	49	8	0	6	13	-14	9	0	7	11	12	2	1	8	39	38	10	0	10	6	5
1	1	5	43	-43	9	0	6	5	-5	0	1	7	29	-28	3	1	8	6	-6	1	1	10	32	33

WARWICKITE 3 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	
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OBSERVED AND CALCULATED STRUCTURE FACTORS FOR WARWICKITE 5

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	13	13	13	0	1	17	18	2	1	2	10	-10	12	0	3	24	23	1	4	3	17	-17
4	0	0	16	-16	0	1	1	18	19	3	1	2	58	59	13	0	3	16	17	2	4	3	29	29
6	0	0	39	-39	2	1	1	33	-32	4	1	2	12	11	0	1	3	53	53	3	4	3	9	9
8	0	0	70	70	3	1	1	45	45	5	1	2	81	81	1	1	3	18	18	5	4	3	17	17
10	0	0	31	31	4	1	1	22	22	7	1	2	13	13	2	1	3	25	24	6	4	3	20	-21
14	0	0	33	-32	5	1	1	29	-30	9	1	2	32	-32	3	1	3	63	62	0	0	4	17	-16
2	1	0	122	-124	7	1	1	19	-20	10	1	2	16	-15	4	1	3	81	-80	1	0	4	15	-15
4	1	0	32	-33	10	1	1	22	-22	13	1	2	22	23	5	1	3	20	-19	2	0	4	71	-72
6	1	0	39	40	11	1	1	22	22	1	2	2	29	29	6	1	3	11	-11	3	0	4	8	-7
8	1	0	30	30	1	2	1	19	19	3	2	2	39	39	7	1	3	17	-16	4	0	4	12	12
10	1	0	36	-37	3	2	1	9	-9	5	2	2	18	-17	8	1	3	18	18	5	0	4	15	16
12	1	0	34	-34	4	2	1	14	13	6	2	2	8	-7	9	1	3	10	-10	6	0	4	44	-44
0	2	0	144	-144	5	2	1	24	-24	7	2	2	52	-52	10	1	3	25	25	7	0	4	8	7
0	2	0	12	-12	7	2	1	16	15	8	2	2	10	-9	11	1	3	20	20	9	0	4	17	-18
4	2	0	28	26	8	2	1	16	-16	11	2	2	17	18	12	1	3	18	-18	10	0	4	17	-17
6	2	0	28	28	9	2	1	19	18	12	2	2	12	11	13	1	3	13	13	11	0	4	12	-11
8	2	0	52	-53	2	3	1	13	13	1	3	2	12	13	1	2	3	34	35	1	1	4	8	-8
10	2	0	26	-26	3	3	1	21	-21	3	3	2	27	-27	2	2	3	56	-57	2	1	4	16	16
2	3	0	63	63	4	3	1	9	-9	5	3	2	46	-45	3	2	3	15	-15	3	1	4	15	15
4	3	0	17	17	5	3	1	14	15	9	3	2	22	22	4	2	3	14	-14	4	1	4	10	10
6	3	0	26	-26	7	3	1	15	14	1	4	2	15	-14	5	2	3	32	-32	7	1	4	15	-15
8	3	0	19	-19	10	3	1	14	15	3	4	2	21	-20	6	2	3	37	36	8	1	4	19	19
10	3	0	25	25	1	4	1	9	-9	5	4	2	8	8	8	2	3	16	15	11	1	4	14	15
0	4	0	63	63	5	4	1	13	13	7	4	2	30	30	10	2	3	13	-14	12	1	4	16	16
4	4	0	17	-17	1	0	2	37	-36	1	0	3	50	-51	11	2	3	14	13	0	2	4	11	11
6	4	0	15	-14	3	0	2	51	-51	2	0	3	83	82	12	2	3	20	-20	1	2	4	10	10
1	0	1	26	-26	4	0	2	10	-10	3	0	3	19	19	0	3	3	34	-34	2	2	4	38	38
3	0	1	11	9	5	0	2	27	26	4	0	3	21	20	1	3	3	14	-14	5	2	4	12	-12
4	0	1	18	-18	6	0	2	10	10	5	0	3	45	45	2	3	3	11	-10	6	2	4	32	31
5	0	1	34	35	7	0	2	68	68	6	0	3	48	-48	3	3	3	32	-32	9	2	4	15	14
7	0	1	22	-22	8	0	2	11	11	8	0	3	20	-20	4	3	3	44	43	10	2	4	13	14
8	0	1	21	21	9	0	2	15	14	9	0	3	15	-15	5	3	3	11	11	2	3	4	9	-9
9	0	1	21	-22	11	0	2	21	-21	10	0	3	19	18	8	3	3	12	-12	3	3	4	9	-9
10	0	1	8	7	1	1	2	9	-8	11	0	3	16	-15	10	3	3	17	-17	8	3	4	13	-13

WARWICKITE 5 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	4	4	17	-16	4	3	5	20	20	1	4	6	18	-18	7	0	8	10	-10	7	0	10	17	-17
6	4	4	16	-17	6	3	5	19	19	3	4	6	18	-19	8	0	8	10	-11	1	1	10	42	-42
1	0	5	56	56	7	3	5	33	-33	1	0	7	28	28	10	0	8	31	-31	3	1	10	10	-10
2	0	5	44	44	8	3	5	21	-22	2	0	7	25	-26	1	1	8	12	11	5	1	10	19	-19
3	0	5	19	-19	1	4	5	20	20	3	0	7	19	-19	2	1	8	45	45	7	1	10	16	16
4	0	5	14	14	2	4	5	17	17	4	0	7	8	-6	3	1	8	8	-8	9	1	10	23	23
5	0	5	43	-44	5	4	5	20	-20	6	0	7	10	9	4	1	8	22	21	1	2	10	23	-22
6	0	5	38	-38	0	0	6	21	-21	8	0	7	14	15	5	1	8	14	-14	3	2	10	31	-31
8	0	5	26	-25	1	0	6	43	-44	9	0	7	18	17	6	1	8	47	-47	7	2	10	13	14
9	0	5	44	43	3	0	6	45	-45	11	0	7	12	-11	8	1	8	33	-32	1	3	10	30	-29
10	0	5	17	17	4	0	6	16	17	0	1	7	33	-33	0	2	8	17	16	2	0	11	33	-33
12	0	5	11	12	7	0	6	21	20	1	1	7	32	-32	2	2	8	12	12	4	0	11	13	-14
13	0	5	12	-11	8	0	6	19	-19	2	1	7	13	13	3	2	8	12	-12	5	0	11	13	-13
0	1	5	51	52	11	0	6	24	-23	3	1	7	11	-10	4	2	8	61	-60	6	0	11	22	22
1	1	5	46	-47	1	1	6	62	-63	4	1	7	12	11	6	2	8	23	-23	8	0	11	18	19
3	1	5	39	-38	2	1	6	16	16	6	1	7	23	23	8	2	8	9	9	0	1	11	44	-44
4	1	5	31	-31	5	1	6	17	16	7	1	7	15	15	10	2	8	27	27	1	1	11	11	-10
6	1	5	28	-29	6	1	6	20	-20	9	1	7	17	-17	2	3	8	29	-29	4	1	11	16	16
7	1	5	50	49	7	1	6	14	-13	1	2	7	21	-21	4	3	8	15	-15	5	1	11	19	20
8	1	5	32	32	9	1	6	28	-28	2	2	7	19	20	5	3	8	9	9	7	1	11	19	19
10	1	5	14	14	11	1	6	13	-12	3	2	7	16	15	6	3	8	33	33	8	1	11	28	-29
11	1	5	22	-22	0	2	6	15	15	5	2	7	8	7	1	0	9	11	10	2	2	11	28	27
1	2	5	39	-39	1	2	6	31	32	8	2	7	12	-12	3	0	9	21	-20	4	2	11	12	12
2	2	5	32	-32	3	2	6	34	33	9	2	7	15	-14	5	0	9	13	-13	6	2	11	18	-19
3	2	5	14	14	4	2	6	13	-13	0	3	7	20	20	0	1	9	14	14	0	3	11	31	31
4	2	5	11	-11	7	2	6	16	-16	1	3	7	19	20	1	1	9	21	-21	2	0	12	17	-18
5	2	5	35	34	8	2	6	16	15	6	3	7	15	-15	7	1	9	14	14	5	0	12	9	-9
6	2	5	30	29	11	2	6	20	20	1	4	7	12	12	1	2	9	9	-9	6	0	12	21	-21
8	2	5	20	20	1	3	6	36	36	0	0	8	18	-18	3	2	9	17	17	2	2	12	15	15
9	2	5	35	-36	2	3	6	11	-10	1	0	8	10	10	5	2	9	11	11	1	0	13	20	-20
10	2	5	14	-14	6	3	6	13	13	2	0	8	17	-16	1	0	10	14	14	2	0	13	16	-17
0	3	5	28	-28	7	3	6	10	9	3	0	8	16	16	1	0	10	27	27	3	0	13	20	20
1	3	5	24	25	9	3	6	20	20	4	0	8	78	78	3	0	10	38	38	5	0	13	30	30
3	3	5	25	24	0	4	6	9	-9	6	0	8	28	28	5	0	10	13	-12	0	1	13	17	-16

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
2	0	0	14	13	2	1	1	33	-32	1	1	2	9	-9	5	0	3	45	45	1	3	3	14	-13
4	0	0	19	-17	3	1	1	45	45	2	1	2	10	-10	6	0	3	48	-49	2	3	3	10	-10
6	0	0	41	-40	4	1	1	23	22	3	1	2	61	60	7	0	3	7	-7	3	3	3	31	-31
8	0	0	75	73	5	1	1	31	-21	4	1	2	11	11	8	0	3	18	-18	4	3	3	43	43
2	1	0	124	-124	6	1	1	8	7	5	1	2	80	81	9	0	3	16	-16	5	3	3	11	12
4	1	0	32	-32	7	1	1	20	-20	6	1	2	7	7	10	0	3	19	19	7	3	3	9	10
6	1	0	41	42	10	1	1	22	-23	7	1	2	12	12	11	0	3	14	-14	8	3	3	11	-12
8	1	0	28	29	11	1	1	21	22	9	1	2	31	-32	12	0	3	23	23	10	3	3	15	-16
10	1	0	37	-38	1	2	1	18	20	10	1	2	16	-15	13	0	3	18	17	1	4	3	17	-16
12	1	0	32	-32	3	2	1	9	-10	12	1	2	6	6	0	1	3	51	53	2	4	3	28	28
0	2	0	142	-143	4	2	1	13	13	13	1	2	22	23	1	1	3	18	19	3	4	3	8	9
2	2	0	11	-11	5	2	1	23	-24	0	2	2	6	-5	2	1	3	24	24	5	4	3	16	16
4	2	0	27	27	6	2	1	6	-5	1	2	2	28	29	3	1	3	63	64	6	4	3	19	-20
6	2	0	27	28	7	2	1	16	16	3	2	2	38	38	4	1	3	80	-81	0	0	4	15	-15
8	2	0	54	-54	8	2	1	16	-17	4	2	2	7	8	5	1	3	21	-21	1	0	4	15	-15
10	2	0	24	-23	9	2	1	18	18	5	2	2	17	-17	6	1	3	10	-11	2	0	4	73	-72
2	3	0	61	61	2	3	1	14	13	6	2	2	8	-7	7	1	3	16	-16	3	0	4	7	-7
4	3	0	15	16	3	3	1	21	-21	7	2	2	51	-51	8	1	3	16	18	4	0	4	12	11
6	3	0	25	-26	4	3	1	8	-9	8	2	2	9	-9	9	1	3	9	-9	5	0	4	17	17
8	3	0	17	-17	5	3	1	15	15	9	2	2	10	-10	10	1	3	23	24	6	0	4	46	-45
10	3	0	26	25	7	3	1	13	13	11	2	2	18	17	11	1	3	21	22	7	0	4	7	7
0	4	0	59	60	10	3	1	14	15	12	2	2	11	12	12	1	3	19	-20	9	0	4	17	-18
4	4	0	16	-16	1	4	1	10	-9	1	3	2	11	12	13	1	3	12	11	10	0	4	17	-17
6	4	0	14	-13	5	4	1	12	13	3	3	2	26	-26	1	2	3	34	35	11	0	4	12	-11
1	0	1	29	-27	7	4	1	9	-8	5	3	2	44	-44	2	2	3	55	-56	13	0	4	11	12
3	0	1	11	10	0	0	2	9	9	7	3	2	7	-7	3	2	3	16	-16	1	1	4	8	-8
4	0	1	19	-18	1	0	2	39	-38	9	3	2	21	21	4	2	3	13	-14	2	1	4	16	15
5	0	1	36	35	3	0	2	51	-51	10	3	2	11	11	5	2	3	32	-32	3	1	4	16	16
6	0	1	9	9	4	0	2	10	-11	1	4	2	13	-13	6	2	3	35	36	4	1	4	9	9
7	0	1	24	-23	5	0	2	27	26	3	4	2	19	-18	7	2	3	5	5	5	1	4	6	6
8	0	1	22	22	6	0	2	10	10	5	4	2	8	8	8	2	3	14	14	7	1	4	16	-16
9	0	1	22	-22	7	0	2	69	69	7	4	2	29	28	9	2	3	11	12	8	1	4	20	20
10	0	1	9	8	8	0	2	12	12	1	0	3	54	-53	10	2	3	15	-15	9	1	4	9	-8
12	0	1	8	-8	9	0	2	12	13	2	0	3	83	83	11	2	3	11	12	11	1	4	15	15
13	0	1	20	19	11	0	2	23	-21	3	0	3	21	21	12	2	3	19	-19	12	1	4	15	15
0	1	1	18	18	12	0	2	16	-14	4	0	3	20	20	0	3	3	32	-32	13	1	4	12	11

WARWICKITE 7 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
0	2	4	10	10	7	1	5	48	49	5	1	6	17	17	2	1	7	13	14	10	0	8	31	-31
1	2	4	10	10	8	1	5	32	32	6	1	6	19	-19	3	1	7	10	-10	11	0	8	8	7
2	2	4	38	38	10	1	5	13	13	7	1	6	16	-15	4	1	7	11	10	1	1	8	9	10
4	2	4	8	-8	11	1	5	21	-21	9	1	6	28	-28	5	1	7	5	5	2	1	8	45	45
5	2	4	13	-13	12	1	5	9	-8	10	1	6	11	10	6	1	7	23	23	3	1	8	7	-7
6	2	4	31	32	1	2	5	38	-38	11	1	6	12	-11	7	1	7	15	16	4	1	8	21	21
7	2	4	6	-6	2	2	5	32	-33	0	2	6	14	15	8	1	7	5	-6	5	1	8	12	-13
9	2	4	14	14	3	2	5	14	14	1	2	6	33	33	9	1	7	19	-19	6	1	8	47	-47
10	2	4	14	14	4	2	5	11	-11	3	2	6	33	33	11	1	7	10	-11	8	1	8	32	-31
11	2	4	11	9	5	2	5	33	32	4	2	6	12	-12	12	1	7	9	-8	10	1	8	11	9
2	3	4	9	-8	6	2	5	29	30	7	2	6	16	-16	1	2	7	21	-21	0	2	8	16	15
3	3	4	9	-9	8	2	5	20	20	8	2	6	14	15	2	2	7	18	18	1	2	8	8	-7
7	3	4	10	10	9	2	5	35	-35	9	2	6	7	7	3	2	7	15	15	2	2	8	12	12
8	3	4	13	-13	10	2	5	14	-14	11	2	6	20	19	5	2	7	8	7	3	2	8	10	-11
1	4	4	6	-5	1	3	5	29	-28	1	3	6	35	35	6	2	7	6	-6	4	2	8	60	-60
2	4	4	16	-16	3	3	5	23	23	2	3	6	10	-10	7	2	7	9	-10	6	2	8	21	-22
5	4	4	9	7	4	3	5	23	22	3	3	6	7	-6	8	2	7	11	-11	7	2	8	8	7
6	4	4	17	-17	4	3	5	19	19	5	3	6	11	-11	9	2	7	13	-14	8	2	8	8	9
1	0	5	55	56	6	3	5	18	18	6	3	6	13	13	0	3	7	18	18	10	2	8	26	26
2	0	5	44	45	7	3	5	31	-31	7	3	6	10	10	1	3	7	21	20	2	3	8	29	-28
4	0	5	13	14	8	3	5	22	-22	9	3	6	20	19	2	3	7	8	-8	4	3	8	14	-14
5	0	5	42	-42	1	4	5	19	19	1	4	6	17	-17	3	3	7	7	7	5	3	8	9	8
6	0	5	39	-40	2	4	5	18	16	3	4	6	18	-17	4	3	7	8	-6	6	3	8	33	32
8	0	5	25	-26	0	0	6	19	-20	1	0	7	28	28	6	3	7	14	-14	1	0	9	9	10
9	0	5	43	43	1	0	6	45	-46	2	0	7	24	-24	7	3	7	12	-11	3	0	9	22	-22
10	0	5	17	17	3	0	6	45	-45	3	0	7	19	-19	1	4	7	14	12	4	0	9	7	6
11	0	5	7	7	4	0	6	16	16	5	0	7	9	-9	2	4	7	11	-9	5	0	9	15	-14
12	0	5	11	11	7	0	6	21	21	6	0	7	8	7	3	4	7	10	-9	6	0	9	8	8
13	0	5	10	-10	8	0	6	18	-18	7	0	7	12	12	0	0	8	19	-18	9	0	9	9	8
0	1	5	52	52	9	0	6	9	-8	8	0	7	15	14	1	0	8	8	9	10	0	9	7	-7
1	1	5	45	-46	11	0	6	23	-23	9	0	7	16	17	2	0	8	16	-16	11	0	9	9	-9
2	1	5	7	-7	12	0	6	11	10	7	0	7	11	11	3	0	8	14	14	0	1	9	15	15
3	1	5	36	-37	1	1	6	63	-63	11	0	7	8	-7	4	0	8	78	78	1	1	9	22	-21
4	1	5	32	-32	2	1	6	15	15	12	0	7	3	-7	6	0	8	26	26	3	1	9	7	-7
6	1	5	29	-29	3	1	6	8	7	0	1	7	31	-31	7	0	8	9	-9	4	1	9	10	9
					3	1	6	8	7	1	1	7	33	-34	8	0	8	11	-11	5	1	9	8	7

WARWICKITE 7 (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H
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