

The crystal structure of taramellite

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Abstract

The crystal structure of taramellite has been redetermined on the basis of new chemical analyses which revealed the presence of boron and chlorine.

The X-ray diffraction data were measured with a single-crystal automatic diffractometer. The electron density maps computed using the new structure factors and the coordinates of the previous structure allowed location of the atoms of boron, chlorine, and oxygen which had been overlooked. The coordinates of all the atoms were refined anisotropically: the final conventional R factor was 0.028 for taramellite from Rush Creek, California and 0.033 for taramellite from the type locality of Candoglia, Italy.

The main structural feature of taramellite is a borosilicate radical $(B_2Si_8O_{27})^{10-}$, which is formed by two rings of four Si tetrahedra connected by a B_2O_5 group sharing two oxygen atoms with each ring. Chlorine atoms occur, with incomplete occupancy, between adjacent borosilicate groups.

The chemical formula derived from the new analytical and structural data is: $Ba_4Me_x(B_2Si_8O_{27})O_2Cl$, where $0 \leq x \leq 1$. In the Rush Creek sample the principal octahedral Me cation is Ti^{4+} , in the Candoglia sample Fe^{3+} .

Introduction

The crystal structure of taramellite was determined (Mazzi and Rossi, 1965) on the basis of the stoichiometric unit $Ba_2(Fe, Ti, Mg)_2H_2(Si_4O_{12})O_2$; this determination was started on poor crystals from the type locality (Candoglia, Italy) and was completed on a crystal from Rush Creek (Fresno County, California). The lattice parameters reported in that paper are: $a = 13.95$; $b = 12.21$; $c = 7.15A$; $Z = 4$; space group $Pm\bar{m}n$.

According to that structural research, taramellite is a cyclosilicate with rings of four SiO_4 tetrahedra; chains of (Fe, Ti) octahedra are formed by having opposite edges of each octahedron shared with two adjacent ones: such chains connect the tetrahedral rings and Ba atoms lie in cavities among the rings. As it was impossible to locate the hydrogen atoms in the unit cell, doubt remained as to whether they were linked to the oxygens of the tetrahedral framework or to the "free" oxygens.

Subsequent chemical analyses by the U.S. Geological Survey and recent preliminary analyses at the California Division of Mines and Geology (Pabst and Alfors, private communication) showed that bo-

ron and chlorine are also essential components of taramellite. Matsubara and Kato (1977) described a vanadium-rich taramellite from the Mogurazawa mine (Kiryu, Japan). These authors, as well as Alfors and Pabst, suggested the following new formula unit: $Ba_4Me_x^{3+}B_2Si_8O_{27}Cl(OH)$ and $Z = 2$, where Me^{3+} would be prevalingly iron in the specimens from Candoglia, titanium in those from California, and vanadium in the Japanese taramellite.

Following these new results, the present re-examination of the crystal structure of taramellite was carried out on specimens from Candoglia and from Rush Creek.

Experimental

Data were collected with a Philips PW 1100 single-crystal diffractometer. The lattice parameters were determined with one of the standard programs (LAT) of the instrument: the profiles of the four most intense reflections (as weighted by $\tan \theta$) of a row of the reciprocal lattice are scanned in the positive and in the negative θ regions, and the centers of gravity of these eight profiles are used in a least-squares refinement of λ/d . Rows a^* , b^* , and c^* were investigated

Table 4: Observed and calculated structure factors
Taramellite from Rush Creek (California)

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	2	0	118.3	119.6	0	2	5	33.4	31.5	2	6	1	80.7	76.9
0	4	0	192.9	200.0	0	4	5	62.2	62.9	2	10	1	29.2	18.0
0	6	0	103.2	88.6	0	6	5	14.6	13.7	2	12	1	85.3	85.0
0	8	0	363.7	374.6	0	8	5	28.3	28.2	2	14	1	47.3	44.6
0	10	0	170.5	166.9	0	10	5	139.8	141.9	2	16	1	113.6	112.3
0	12	0	170.1	170.8	0	12	5	120.4	118.2	2	18	1	37.9	35.3
0	14	0	44.7	44.2	0	14	5	31.2	29.3	2	0	2	308.4	309.0
0	16	0	78.2	79.5	0	16	5	61.2	59.3	2	2	2	94.5	92.4
0	18	0	176.9	178.7	0	0	6	166.7	164.3	2	4	2	112.0	104.7
0	0	1	7.7	0.8	0	2	6	166.9	164.2	2	6	2	73.5	77.4
0	2	1	36.0	28.4	0	4	6	71.7	70.1	2	8	2	116.5	114.0
0	4	1	136.7	141.1	0	6	6	120.7	119.7	2	10	2	123.1	122.8
0	6	1	101.8	92.7	0	8	6	66.0	65.1	2	12	2	58.2	53.7
0	8	1	44.6	48.3	0	10	6	34.1	33.9	2	14	2	24.8	23.5
0	10	1	93.5	91.7	0	12	6	40.5	40.7	2	16	2	37.1	36.4
0	12	1	211.9	210.2	0	14	6	16.8	16.8	2	18	2	141.8	140.7
0	14	1	104.2	103.7	0	0	7	13.4	12.5	2	0	3	151.2	147.9
0	16	1	167.0	166.7	0	2	7	75.9	77.4	2	2	3	163.6	150.3
0	18	1	92.9	90.8	0	4	7	61.3	60.1	2	4	3	10.7	8.5
0	0	2	91.5	98.3	0	6	7	9.9	3.5	2	6	3	171.6	159.1
0	2	2	315.8	310.0	0	8	7	60.3	61.9	2	8	3	18.9	19.0
0	4	2	323.6	338.3	0	10	7	27.3	28.0	2	10	3	51.7	51.9
0	6	2	155.2	160.6	0	12	7	36.9	40.1	2	12	3	120.6	117.2
0	8	2	41.8	42.1	0	14	7	109.6	110.8	2	14	3	19.3	17.7
0	10	2	137.8	135.4	0	0	8	111.0	110.8	2	16	3	96.1	93.5
0	12	2	19.1	16.4	0	2	8	83.5	83.9	2	18	3	79.8	79.1
0	14	2	81.7	81.4	0	4	8	133.9	134.7	2	0	4	146.3	142.4
0	16	2	13.4	13.4	0	6	8*	10.6	8.1	2	2	4	60.4	59.5
0	18	2	39.0	37.7	0	8	8	12.8	10.0	2	4	4	247.7	247.9
0	0	3	7.2	15.3	0	10	8*	7.5	1.7	2	6	4	26.3	26.6
0	2	3	185.4	172.6	0	0	9	98.8	101.8	2	8	4	39.7	38.2
0	4	3	11.8	5.7	0	2	9	27.6	22.5	2	10	4	69.1	67.4
0	6	3	114.1	117.2	0	4	9	20.7	24.5	2	12	4	37.5	35.9
0	8	3	185.6	188.9	0	6	9	20.3	20.7	2	14	4	131.0	130.5
0	10	3	57.7	54.3	0	8	9	51.7	55.4	2	16	4	26.0	18.7
0	12	3	111.5	108.0	0	0	10	94.2	94.7	2	0	5	12.1	9.8
0	14	3	156.9	153.0	2	0	0	163.7	166.3	2	2	5	126.2	120.9
0	16	3	155.5	152.2	2	2	0	13.9	9.5	2	4	5	204.5	202.2
0	18	3	23.6	22.6	2	4	0	388.4	405.1	2	6	5*	8.7	4.4
0	0	4	376.6	371.4	2	6	0	83.0	87.2	2	8	5	56.7	57.5
0	2	4	67.8	67.9	2	8	0	56.6	58.5	2	10	5	34.6	34.3
0	4	4	242.6	245.2	2	10	0	102.2	97.5	2	12	5*	10.4	8.2
0	6	4	43.4	40.4	2	12	0	110.4	106.1	2	14	5	112.3	111.7
0	8	4	248.2	252.7	2	14	0	217.0	217.5	2	16	5	66.2	65.4
0	10	4	48.1	47.8	2	16	0	12.1	9.1	2	0	6	85.6	83.6
0	12	4	67.2	64.3	2	18	0	91.0	90.5	2	2	6	100.8	96.2
0	14	4	103.6	104.0	2	0	1	31.6	29.8	2	4	6	98.2	98.3
0	16	4	26.5	26.1	2	2	1	219.9	221.7	2	6	6	52.3	52.2
0	18	4	94.2	94.2	2	4	1	133.1	128.8	2	8	6	11.2	5.4
0	0	5	196.2	193.9	2	6	1	135.6	133.2	2	10	6	16.9	18.3

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
2	12	6	32.0	32.3	4	0	3	153.7	154.9	4	2	9	45.5	42.4
2	14	6	43.3	43.5	4	2	3	297.0	296.7	4	4	9	42.3	45.1
2	0	7	164.5	160.6	4	4	3	199.8	203.1	4	6	9	38.3	37.0
2	2	7	31.3	33.2	4	6	3	165.3	164.6	5	0	0	162.9	137.0
2	4	7	20.9	19.8	4	8	3	23.0	21.1	6	2	0	15.5	10.2
2	6	7	96.0	96.5	4	10	3	104.3	101.1	6	4	0	297.6	311.9
2	8	7	39.0	37.5	4	12	3*	9.0	6.2	6	6	0	147.7	150.2
2	10	7	66.0	66.6	4	14	3*	10.0	3.2	6	8	0	52.1	53.1
2	12	7	57.0	60.7	4	16	3	53.0	52.3	6	10	0	69.7	57.3
2	0	8	120.6	124.7	4	18	3	37.6	34.3	6	12	0	87.4	87.1
2	2	8	37.5	37.5	4	0	4	190.3	182.6	6	14	0	212.9	216.8
2	4	8	43.5	43.1	4	2	4	133.0	127.9	6	16	0	24.5	21.0
2	6	8	53.4	54.9	4	4	4	85.8	83.0	6	18	0	95.1	85.7
2	8	8	59.1	59.2	4	6	4	40.0	40.3	6	0	1	51.7	35.3
2	10	8	59.2	59.6	4	8	4	121.3	124.4	6	2	1	206.8	211.9
2	0	9	37.7	40.9	4	10	4	197.4	198.1	6	4	1	121.2	116.3
2	2	9	57.0	54.5	4	12	4	55.6	55.1	6	6	1	106.8	106.5
2	4	9	102.6	106.1	4	14	4	171.2	170.4	6	8	1	43.3	40.3
2	6	9	13.0	12.9	4	16	4	46.6	45.9	6	10	1	45.3	45.3
2	8	9*	12.4	8.2	4	0	5	327.0	332.5	6	12	1	71.0	72.7
4	0	0	351.7	335.3	4	2	5	172.5	169.4	6	14	1	42.4	43.7
4	2	0	200.6	208.3	4	4	5	39.7	37.5	6	16	1	34.3	36.4
4	4	0	149.2	139.9	4	6	5	86.1	86.0	6	18	1	21.6	19.2
4	6	0	210.5	211.7	4	8	5	123.6	124.1	6	0	2	219.1	215.8
4	8	0	135.7	133.6	4	10	5	15.1	9.8	6	2	2	68.2	65.3
4	10	0	329.0	339.4	4	12	5	14.6	12.9	6	4	2	72.3	65.3
4	12	0	27.0	24.7	4	14	5	27.1	24.3	6	6	2	67.7	68.4
4	14	0	165.4	166.9	4	16	5	15.9	14.5	6	8	2	86.3	85.8
4	16	0	19.1	20.3	4	0	6	36.0	36.8	6	10	2	106.5	116.3
4	18	0	231.9	235.9	4	2	6	75.5	74.1	6	12	2	77.5	77.2
4	0	1	232.0	237.8	4	4	6	13.2	9.9	6	14	2	45.1	45.1
4	2	1	283.6	303.2	4	6	6	13.8	13.8	6	16	2	34.5	33.7
4	4	1	147.3	149.3	4	8	6	40.5	40.4	6	0	3	192.5	189.4
4	6	1	241.8	243.9	4	10	6	29.4	30.1	6	2	3	158.6	157.0
4	8	1	131.1	128.5	4	12	6	84.3	85.6	6	4	3	21.3	18.2
4	10	1	116.0	114.5	4	14	6	66.0	65.2	6	6	3	152.9	149.5
4	12	1	54.5	53.2	4	0	7	14.4	12.4	6	8	3	40.5	40.2
4	14	1	11.9	1.9	4	2	7	129.3	130.3	6	10	3	25.5	22.9
4	16	1	56.2	57.3	4	4	7	146.6	145.5	6	12	3	93.1	91.4
4	18	1*	11.2	4.9	4	6	7	66.7	66.2	6	14	3	15.9	11.4
4	0	2	12.3	4.9	4	8	7	12.0	11.1	6	16	3	86.7	87.5
4	2	2	113.4	101.0	4	10	7	69.8	67.9	6	0	4	188.3	188.6
4	4	2	21.4	20.6	4	12	7*	10.5	7.7	6	2	4	36.9	35.2
4	6	2	123.6	121.1	4	0	8	64.2	65.0	6	4	4	160.0	159.9
4	8	2	133.6	134.0	4	2	8	40.6	42.0	6	6	4	38.5	39.2
4	10	2	12.3	5.9	4	4	8	88.3	87.1	6	8	4	45.1	45.4
4	12	2	81.5	78.1	4	6	8	46.4	45.7	6	10	4	79.1	78.2
4	14	2	182.5	180.7	4	8	8	15.2	14.4	6	12	4	34.0	33.3
4	16	2	141.0	141.1	4	10	8	20.8	19.5	6	14	4	115.3	115.2
4	18	2	72.0	70.7	4	0	9	114.7	117.4	6	16	4	37.1	36.2

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
6	0	5	34.5	33.3	9	2	2	211.3	206.8	10	0	0	221.6	221.7
6	2	5	111.2	109.1	9	4	2	235.1	237.5	10	2	0	16.1	6.3
6	4	5	165.9	163.2	9	6	2	132.1	132.5	10	4	0	220.0	225.3
6	6	5	26.0	24.9	9	8	2	30.8	33.6	10	6	0	23.0	16.6
6	8	5	24.4	23.8	9	10	2	60.0	60.3	10	8	0	111.3	115.3
6	10	5	20.1	19.2	9	12	2	20.9	19.3	10	10	0	103.7	104.5
6	12	5	13.2	11.1	9	14	2	27.5	27.1	10	12	0	63.7	64.3
6	14	5	35.5	35.8	9	16	2	20.7	20.0	10	14	0	120.7	130.6
6	0	6	57.7	57.3	9	0	3*	6.8	6.9	10	0	1	73.0	60.4
6	2	6	97.0	93.8	9	2	3	105.9	102.1	10	2	1	129.0	128.0
6	4	6	82.8	81.9	9	4	3*	8.3	3.6	10	4	1	19.1	10.8
6	6	6	38.8	38.7	9	6	3	20.0	18.1	10	6	1	61.0	62.4
6	8	6*	7.6	3.9	9	8	3	129.7	128.4	10	8	1	30.3	28.7
6	10	6*	19.8	8.7	9	10	3	12.3	11.2	10	10	1*	0.0	0.1
6	12	6	45.6	46.1	9	12	3	87.6	86.9	10	12	1	76.3	76.0
6	14	6	61.5	61.4	9	14	3	87.6	85.5	10	14	1	47.7	46.7
6	0	7	134.0	131.7	9	16	3	133.0	135.7	10	0	2	133.7	143.3
6	2	7	89.8	91.4	9	0	4	250.9	261.4	10	2	2	117.0	117.0
6	4	7*	6.8	4.6	9	2	4	51.5	52.3	10	4	2	64.0	60.1
6	6	7	60.6	60.4	9	4	4	202.1	204.2	10	6	2	23.2	24.0
6	8	7	27.4	26.5	9	6	4	51.0	45.0	10	8	2	65.0	63.8
6	10	7	27.0	24.3	9	8	4	169.3	170.4	10	10	2*	6.1	1.9
6	12	7	47.4	49.2	9	10	4	91.9	83.0	10	12	2	33.7	34.0
6	0	8	106.2	105.3	9	12	4	57.3	56.0	10	14	2	50.2	51.2
6	2	8	39.3	39.3	9	14	4	72.2	72.2	10	0	3	60.7	63.0
6	4	8	45.5	45.5	9	0	5	99.0	99.3	10	2	3	113.0	112.0
6	6	8	28.4	28.9	9	2	5	32.2	31.0	10	4	3	11.0	13.0
6	8	8	45.1	46.4	9	4	5*	6.0	3.9	10	6	3	73.0	69.3
6	0	9	46.5	50.2	9	6	5*	15.3	3.4	10	8	3*	5.3	5.1
6	2	9	50.0	47.3	9	8	5	11.0	4.5	10	10	3*	7.3	2.0
6	4	9	61.9	64.4	9	10	5	97.1	97.7	10	12	3	94.5	95.6
8	0	0	444.0	500.1	9	12	5	64.5	64.2	10	14	3	39.4	39.9
8	2	0	65.7	73.0	9	14	5	42.0	40.6	10	0	4	148.4	150.2
8	4	0	236.6	243.8	9	0	6	105.4	105.4	10	2	4	30.3	30.4
8	6	0	37.9	36.7	9	2	6	131.5	129.7	10	4	4	150.5	159.3
8	8	0	235.3	235.9	9	4	6	81.4	82.1	10	6	4	17.0	17.0
8	10	0	102.6	102.4	9	6	6	89.7	89.8	10	8	4	65.0	67.1
8	12	0	127.2	126.4	9	8	6	37.2	37.5	10	10	4	47.7	47.3
8	14	0	61.0	61.4	9	10	6	30.5	27.0	10	12	4	21.6	19.3
8	16	0	70.9	71.9	9	12	6	26.9	25.5	10	0	5	64.0	60.0
8	0	1	42.7	42.1	9	0	7*	0.7	4.5	10	2	5	76.5	76.7
8	2	1	47.7	46.4	9	2	7	50.3	59.1	10	4	5	78.3	75.9
8	4	1	34.2	28.5	9	4	7	44.5	45.0	10	6	5*	6.0	3.5
8	6	1	56.1	55.3	9	6	7	16.5	16.9	10	8	5	12.0	7.4
8	8	1	69.1	69.0	9	8	7	40.0	40.5	10	10	5*	0.7	0.1
8	10	1	68.4	67.7	9	10	7*	9.4	1.4	10	12	5	22.4	21.8
8	12	1	150.4	152.4	9	0	8	88.6	87.8	10	0	6	59.2	61.7
8	14	1	61.6	61.6	9	2	8	63.4	63.9	10	2	6	64.2	64.7
8	16	1	127.9	130.8	9	4	8	107.4	109.1	10	4	7	60.1	60.3
8	0	2	104.7	100.5	9	6	8	11.7	12.6	10	6	8	43.7	42.3

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
10	8	6	17.7	16.4	12	0	6	13.8	14.0	0	1	1	81.3	79.4
10	10	6*	9.2	9.5	12	2	6	41.6	41.9	0	3	1	73.5	78.9
10	0	7	98.4	97.0	12	4	6	22.3	22.7	0	5	1	123.0	120.2
10	2	7	63.9	65.7	12	6	6	25.0	24.8	0	7	1	170.9	163.9
10	4	7*	7.3	3.8	12	8	7	54.1	54.6	0	9	1	46.4	46.9
10	6	7	43.3	56.0	12	2	7	77.1	80.0	0	11	1	28.4	24.1
10	8	7	16.3	16.5	14	0	0	179.3	180.1	0	13	1	84.7	83.5
10	0	8	58.7	58.5	14	2	0	19.7	19.2	0	15	1	94.5	93.2
10	2	8	34.2	33.7	14	4	0	112.7	107.3	0	17	1	44.4	44.4
12	0	0	171.6	164.3	14	6	0	69.9	70.2	0	19	1	35.4	36.2
12	2	0	90.6	83.3	14	8	0	67.7	69.7	0	1	2	19.6	18.9
12	4	0	113.2	112.2	14	10	0	61.2	62.3	0	3	2	42.5	41.7
12	6	0	103.6	103.5	14	0	1	81.0	79.2	0	5	2	120.3	115.5
12	8	0	75.7	47.0	14	2	1	119.7	118.8	0	7	2	29.3	29.7
12	10	0	133.1	137.8	14	4	1	49.9	48.4	0	9	2	32.3	31.5
12	12	0*	7.0	2.3	14	6	1	69.1	68.4	0	11	2*	2.6	2.3
12	14	0	121.0	124.8	14	8	1*	10.6	5.3	0	13	2	15.9	16.7
12	0	1	118.3	114.4	14	10	1	27.8	25.1	0	15	2*	6.1	1.6
12	2	1	170.0	163.0	14	0	2	60.2	58.8	0	17	2	43.8	43.1
12	4	1	106.1	105.7	14	2	2	53.2	59.1	0	19	2	42.3	43.4
12	6	1	143.5	143.9	14	4	2	46.3	45.4	0	1	3	107.0	99.2
12	8	1	52.2	49.2	14	6	2	17.0	16.9	0	3	3	37.7	32.3
12	10	1	43.7	43.8	14	8	2	13.5	11.9	0	5	3	64.6	60.8
12	12	1	21.4	22.5	14	10	2	23.4	20.3	0	7	3	96.6	95.2
12	0	2	15.0	12.0	14	0	3	90.7	87.3	0	9	3	34.9	35.2
12	2	2	40.5	36.6	14	2	3	111.8	110.1	0	11	3	22.0	24.3
12	4	2	28.6	28.8	14	4	3	26.2	24.1	0	13	3	17.1	13.4
12	6	2	29.7	17.6	14	6	3	62.4	60.1	0	15	3	14.0	10.3
12	8	2	63.2	61.3	14	8	3	17.3	15.9	0	17	3	47.2	47.5
12	10	2	49.5	51.8	14	0	4	140.0	140.2	0	1	4	53.6	49.6
12	12	2	61.4	61.2	14	2	4*	12.4	9.3	0	3	4	133.1	129.3
12	0	3	82.1	80.5	14	4	4	67.0	69.7	0	5	4	58.7	58.7
12	2	3	163.3	165.7	14	6	4	33.3	32.4	0	7	4	100.4	101.1
12	4	3	113.8	116.0	14	8	4	40.5	41.9	0	9	4	46.5	47.5
12	6	3	123.1	120.4	14	0	5	76.4	75.3	0	11	4	55.4	56.2
12	8	3*	10.6	5.1	14	2	5	62.4	62.2	0	13	4	13.0	11.4
12	10	3	37.0	37.3	14	4	5	63.9	61.5	0	15	4	97.0	96.4
12	12	3*	1.6	4.3	16	0	0	179.9	176.1	0	17	4	51.9	51.5
12	0	4	78.0	77.2	16	2	0	46.5	46.8	0	1	5	122.3	119.3
12	2	4	43.3	44.1	16	4	0	170.0	175.9	0	3	5	41.4	40.5
12	4	4	90.6	91.6	16	6	0	23.7	20.6	0	5	5	111.3	112.9
12	6	4	45.7	45.6	16	8	1	23.7	20.9	0	7	5	55.3	54.1
12	8	4	40.1	37.9	16	2	1	35.2	37.4	0	9	5	77.3	77.9
12	10	4	104.7	106.2	16	4	1	13.8	11.6	0	11	5	61.2	61.1
12	0	5	137.7	137.0	16	6	1	14.2	13.1	0	13	5	44.9	44.9
12	2	5	103.1	103.5	16	0	2	101.0	101.2	0	15	5	33.1	34.0
12	4	5	39.5	39.2	16	2	2	103.8	101.8	0	17	5	50.6	59.2
12	6	5	40.4	42.3	16	4	2	91.1	87.6	0	1	6	27.2	28.3
12	8	5	50.7	49.5	16	0	3	30.0	31.5	0	3	6	11.4	10.5
12	10	5	16.1	15.5	16	2	3	42.1	42.2	0	5	6	19.3	18.9

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
0	7	6	60.4	60.3	2	17	3*	7.2	4.5	4	15	1	30.9	30.7
0	9	6	60.3	61.5	2	1	4	45.1	41.5	4	17	1	66.4	66.5
0	11	6	63.9	66.1	2	3	4	91.8	55.8	4	13	1	23.1	23.2
0	13	6*	7.4	5.3	2	5	4	25.2	24.5	4	1	2	94.4	83.3
0	15	6*	9.5	7.2	2	7	4	40.5	41.6	4	3	2	125.4	115.3
0	1	7	21.4	22.2	2	9	4	24.5	21.7	4	5	2	21.5	27.3
0	3	7	10.5	9.5	2	11	4	60.0	67.4	4	7	2	21.1	17.2
0	5	7	47.7	42.3	2	13	4	39.2	39.1	4	9	2	26.9	22.7
0	7	7	10.4	4.8	2	15	4	12.8	11.5	4	11	2	16.1	14.1
0	9	7	22.6	21.0	2	17	4*	7.4	6.4	4	13	2	16.1	15.7
0	11	7*	6.1	2.1	2	1	5	103.4	102.1	4	15	2	12.1	12.3
0	13	7	14.0	12.5	2	3	5	53.0	41.4	4	17	2	1.1	13.5
0	1	8	61.3	62.6	2	5	5	30.3	26.5	4	1	3	22.5	22.1
0	3	8	55.1	57.6	2	7	5	53.7	59.2	4	3	3	31.2	29.4
0	5	8*	5.5	3.1	2	9	5	104.5	107.2	4	5	3	41.5	37.5
0	7	8	81.7	85.0	2	11	5	39.2	40.3	4	7	3	51.4	47.7
0	9	8	22.0	24.2	2	13	5	74.7	75.5	4	9	3*	6.5	3.1
0	11	8	55.1	58.3	2	15	5	52.2	52.8	4	11	3	34.0	33.1
0	1	9	10.3	13.7	2	1	6	14.0	14.3	4	13	3	31.2	29.4
0	3	9	31.6	36.4	2	3	6	69.1	70.1	4	15	3	41.5	46.1
0	5	9	43.2	40.0	2	5	6	23.2	20.9	4	17	3	41.4	40.5
0	7	9	17.4	13.5	2	7	6	75.5	75.6	4	1	4	118.5	111.3
2	1	1	73.1	77.3	2	9	6	14.2	12.0	4	3	4	37.0	36.3
2	3	1	124.3	122.7	2	11	6	20.4	21.1	4	5	4	37.5	37.2
2	5	1	115.6	112.9	2	13	6*	13.8	0.3	4	7	4	113.7	120.2
2	7	1	52.7	49.0	2	15	6	57.4	56.9	4	9	4	51.1	50.4
2	9	1	72.6	72.3	2	1	7	22.4	21.5	4	11	4	51.4	53.3
2	11	1	61.7	61.7	2	3	7	13.2	11.7	4	13	4	46.3	45.5
2	13	1	63.2	69.1	2	5	7	23.6	24.3	4	15	4	55.5	56.5
2	15	1	30.3	30.9	2	7	7	20.7	19.3	4	17	4	49.2	48.9
2	17	1	27.3	25.7	2	9	7	35.3	35.4	4	1	5	79.5	79.4
2	19	1	49.7	51.0	2	11	7	12.8	12.1	4	3	5	62.1	60.3
2	1	2	21.6	21.2	2	13	7	20.0	27.9	4	5	5	133.5	131.1
2	3	2	27.6	26.3	2	1	8	30.4	29.3	4	7	5	43.3	43.5
2	5	2	9.1	4.6	2	3	8	54.8	57.0	4	9	5	37.1	35.5
2	7	2	36.6	36.0	2	5	8*	5.4	3.1	4	11	5	30.1	31.6
2	9	2	12.8	12.5	2	7	8	33.9	36.2	4	13	5	64.5	55.2
2	11	2	15.7	15.6	2	9	8*	8.0	1.5	4	15	5	47.5	48.5
2	13	2	11.6	9.2	2	11	8	73.5	77.0	4	1	6	13.5	13.2
2	15	2	25.6	27.8	2	1	9	43.2	42.1	4	3	6	25.2	24.0
2	17	2	27.7	27.5	2	3	9*	9.6	2.9	4	5	6	14.0	13.7
2	19	2*	9.7	1.6	2	5	9	61.9	61.5	4	7	6	10.7	8.5
2	1	3	19.5	20.0	2	7	9	22.5	20.0	4	9	6	11.0	13.7
2	3	3	76.5	72.4	4	1	1	40.9	45.3	4	11	6	59.5	51.1
2	5	3	20.5	16.5	4	3	1	134.7	136.7	4	13	6*	6.5	1.5
2	7	3	25.0	23.2	4	5	1	32.4	30.3	4	15	6	12.5	12.7
2	9	3	11.7	10.1	4	7	1	51.1	50.9	4	1	7	23.1	20.1
2	11	3	55.2	55.6	4	9	1	153.5	152.9	4	3	7	10.7	10.1
2	13	3	13.7	13.2	4	11	1	13.5	14.1	4	5	7	54.5	55.5
2	15	3*	7.4	1.9	4	13	1	20.2	20.8	4	7	7	25.3	25.5

H	K	L	/FD/	/FC/	H	K	L	/FD/	/FC/	H	K	L	/FD/	/FC/
4	7	7	35.5	35.6	6	7	5	53.9	53.1	8	15	3*	6.1	3.8
4	11	7*	1.5	2.0	6	9	5	68.4	70.5	8	1	4	62.3	59.9
4	13	7	22.0	21.7	6	11	5	27.4	25.5	8	3	4	79.8	78.4
4	1	8	51.4	52.4	6	13	5	78.7	79.7	8	5	4*	8.5	7.8
4	3	8	44.2	45.6	6	15	5	47.6	46.9	8	7	4	66.5	65.7
4	5	8	27.0	28.0	6	1	6	41.6	42.5	8	9	4	29.5	29.3
4	7	8	71.7	72.6	6	3	6	32.3	32.4	8	11	4	67.7	65.2
4	9	8	15.9	17.9	6	5	6	12.2	10.4	8	13	4*	10.4	9.3
4	1	9	32.9	29.5	6	7	6	71.5	71.5	8	15	4	53.3	51.8
4	3	9	21.7	19.4	6	9	6	23.6	24.3	8	1	5	63.7	65.0
4	5	9	33.2	37.0	6	11	6	23.2	23.7	8	3	5	38.5	39.4
4	7	9	15.0	19.0	6	13	6*	6.5	3.3	8	5	5	92.5	91.7
6	1	1	11.7	16.1	6	1	7	13.0	9.5	8	7	5	53.5	53.1
6	3	1	53.5	56.4	6	3	7*	7.2	1.6	8	9	5	62.9	64.1
6	5	1	15.5	12.3	6	5	7	27.5	25.8	8	11	5	53.9	53.4
6	7	1	60.8	57.1	6	7	7	27.0	25.6	8	13	5	41.7	42.5
6	9	1	44.0	44.1	6	9	7	36.6	37.0	8	1	6*	6.5	2.4
6	11	1	74.0	74.2	6	11	7	15.2	13.7	8	3	6	19.4	20.4
6	13	1	74.9	76.1	6	1	8	14.7	14.4	8	5	6	31.1	29.2
6	15	1	19.3	17.7	6	3	8	55.1	57.7	8	7	6	39.5	38.4
6	17	1	10.4	13.8	6	5	8	16.8	19.3	8	9	6	57.5	57.5
6	1	2*	5.7	3.0	6	7	8	35.1	38.3	8	11	6	51.3	51.5
6	3	2	12.7	11.1	6	9	8*	10.0	8.4	8	1	7	30.7	30.2
6	5	2	28.9	25.5	6	1	9	51.0	49.9	8	3	7	26.9	27.1
6	7	2	47.6	45.5	6	3	9*	8.1	8.7	8	5	7	22.7	22.3
6	9	2	10.7	7.0	6	5	9	43.0	42.3	8	7	7*	7.4	3.1
6	11	2*	1.5	2.1	6	1	1	102.9	105.9	8	9	7	21.5	21.5
6	13	2*	6.3	1.0	6	3	1	45.7	42.5	8	1	8	47.5	43.2
6	15	2	29.9	30.0	6	5	1	42.9	39.3	8	3	8	45.9	48.2
6	17	2	24.2	24.3	6	7	1	109.2	107.6	8	5	8*	8.6	3.7
6	1	3	13.6	11.3	6	9	1	83.3	84.9	8	7	8	63.7	67.2
6	3	3	40.3	35.6	6	11	1	14.4	13.4	10	1	1	12.0	5.2
6	5	3	41.2	41.1	6	13	1	43.1	43.3	10	3	1	108.3	107.9
6	7	3	45.9	43.4	6	15	1	52.5	53.9	10	5	1	113.5	112.3
6	9	3	25.7	26.3	6	17	1	41.0	43.0	10	7	1	28.2	25.7
6	11	3	36.1	36.5	6	1	2	25.0	21.6	10	9	1	21.5	20.4
6	13	3	26.7	28.6	6	3	2	44.4	43.8	10	11	1	34.9	35.4
6	15	3	12.8	9.6	6	5	2	21.2	18.5	10	13	1	57.5	58.9
6	17	3*	2.5	0.9	6	7	2	21.1	20.5	10	15	1	54.0	56.7
6	1	4	37.4	34.3	6	9	2	12.1	9.5	10	1	2	35.8	36.3
6	3	4	36.9	65.1	6	11	2	10.3	8.7	10	3	2*	10.5	1.3
6	5	4	23.1	23.7	6	13	2	22.2	22.5	10	5	2	31.7	32.0
6	7	4	32.8	33.9	6	15	2	15.5	16.3	10	7	2	20.9	19.5
6	9	4	25.1	24.3	6	1	3	60.7	60.5	10	9	2	29.7	30.4
6	11	4	74.0	72.8	6	3	3	22.7	20.3	10	11	2	22.7	23.7
6	13	4	35.5	35.3	6	5	3	28.4	26.5	10	13	2	24.5	24.3
6	15	4	19.4	17.7	6	7	3	61.6	60.5	10	15	2*	2.8	3.3
6	1	5	68.0	66.7	6	9	3*	8.2	1.9	10	1	3	13.0	7.5
6	3	5	72.4	72.1	6	11	3	29.3	29.8	10	3	3	56.7	56.0
6	5	5	115.7	115.0	6	13	3*	13.1	1.3	10	5	3	27.5	24.9

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
10	7	3	20.3	18.3	12	7	4	59.4	57.4	1	12	1	55.8	55.3
10	9	3*	9.8	2.7	12	9	4	53.0	51.2	1	14	1	35.0	33.2
10	11	3	20.4	19.6	12	11	4	38.0	37.2	1	16	1	52.1	52.3
10	13	3	17.5	17.1	12	1	5	74.2	76.0	1	18	1	17.1	17.2
10	1	4	16.9	14.1	12	3	5	23.7	23.6	1	2	2	9.4	8.1
10	3	4	62.1	66.7	12	5	5	63.7	63.5	1	4	2	98.7	95.3
10	5	4	50.6	52.3	12	7	5	37.1	38.4	1	6	2	37.1	33.2
10	7	4	50.7	52.6	12	9	5	71.1	72.4	1	8	2	117.7	118.6
10	9	4	19.1	19.2	12	1	6	29.9	29.3	1	10	2	19.6	16.4
10	11	4	41.9	39.7	12	3	6	38.9	40.6	1	12	2	23.8	22.2
10	13	4	51.4	51.7	12	5	6	46.2	46.7	1	14	2	52.1	29.6
10	1	5	57.4	57.1	12	7	6	12.1	9.5	1	16	2	50.1	57.0
10	3	5	67.9	67.4	12	1	7	22.5	21.3	1	18	2	21.2	22.3
10	5	5	62.0	61.6	14	1	1	19.2	19.1	1	20	2	11.7	16.7
10	7	5	27.1	26.5	14	3	1	42.8	42.2	1	22	3	130.6	125.3
10	9	5	31.4	31.5	14	5	1	91.2	89.3	1	24	3	127.9	126.5
10	11	5	33.8	33.2	14	7	1	41.4	41.1	1	26	3	97.1	93.0
10	1	6	27.8	27.7	14	9	1	11.9	9.5	1	28	3	152.4	153.0
10	3	6	29.8	29.0	14	11	1	23.7	23.2	1	30	3	55.9	54.2
10	5	6	13.9	20.6	14	1	2	22.9	22.1	1	32	3	103.6	105.3
10	7	6	55.4	55.1	14	3	2	13.9	11.2	1	34	3	58.1	56.9
10	9	6	24.5	25.1	14	5	2	15.2	12.4	1	36	3	92.8	91.0
10	1	7*	6.2	6.9	14	7	2	24.8	23.1	1	38	3	29.8	29.7
10	3	7*	9.1	4.3	14	9	2*	9.8	8.4	1	40	3	81.2	81.7
10	5	7	35.2	35.1	14	1	3*	7.7	5.1	1	42	4	21.7	19.6
10	7	7	22.7	22.0	14	3	3	23.7	23.3	1	44	4	96.7	97.2
10	1	8	23.6	23.6	14	5	3	42.7	40.3	1	46	4	44.1	47.6
12	1	1	69.4	69.8	14	7	3	37.2	36.1	1	48	4	71.8	71.2
12	3	1	64.2	60.7	14	9	3	33.8	34.5	1	50	4	16.7	13.4
12	5	1	22.3	21.4	14	1	4*	7.5	2.6	1	52	4	63.6	65.2
12	7	1	50.1	49.8	14	3	4	60.1	59.4	1	54	4	11.7	5.5
12	9	1	93.0	98.9	14	5	4	41.7	41.6	1	56	4*	7.9	3.3
12	11	1	26.3	28.4	14	7	4	26.8	26.9	1	58	4	16.2	16.5
12	13	1	12.9	11.6	14	1	5	33.8	32.7	1	60	5	46.6	48.3
12	1	2	30.9	27.2	14	3	5	41.0	40.3	1	62	5	10.6	9.7
12	3	2	43.7	47.3	14	5	5	69.6	68.9	1	64	5	6.9	4.9
12	5	2*	4.9	6.7	16	1	1	78.3	78.3	1	66	5	23.3	24.3
12	7	2*	9.0	7.6	16	3	1	20.0	21.2	1	68	5	53.1	52.7
12	9	2*	6.8	1.2	16	5	1*	8.3	5.5	1	70	5	43.2	42.4
12	11	2*	7.8	1.5	16	1	2	28.4	27.9	1	72	5	43.6	43.4
12	13	2	12.5	12.1	16	3	2	27.3	26.7	1	74	5	36.5	36.0
12	1	3	43.5	44.0	16	5	2	19.1	20.4	1	76	5	27.7	27.4
12	3	3	15.8	13.9	16	1	3	36.1	35.2	1	78	5*	5.5	5.7
12	5	3*	9.1	4.1	16	3	3*	10.7	8.8	1	80	5	131.6	130.9
12	7	3	35.9	36.7	1	0	1	12.9	13.1	1	82	5	21.0	19.5
12	9	3	13.9	25.1	1	2	1	36.4	35.1	1	84	5	103.4	105.7
12	11	3	44.0	45.1	1	4	1	133.4	131.0	1	86	5*	18.6	6.5
12	1	4	71.7	69.1	1	6	1	100.0	93.8	1	88	5	71.0	72.3
12	3	4	25.5	24.0	1	8	1	35.2	33.3	1	90	5	32.9	33.1
12	5	4*	6.1	5.0	1	10	1	9.2	9.3	1	92	5	41.0	49.3

F	K	L	/FC/	/FC/	F	K	L	/FC/	/FC/	F	K	L	/FC/	/FC/
1	0	7	61.5	51.5	3	4	4	72.9	72.2	5	16	1*	6.3	5.7
1	2	7	65.3	63.1	3	6	4	46.3	44.0	5	0	2	73.5	66.7
1	4	7	24.5	22.0	3	8	4	23.7	23.2	5	2	2	45.7	40.4
1	6	7	43.5	43.4	3	10	4	46.4	44.6	5	4	2	71.1	70.9
1	8	7	21.3	19.9	3	12	4	63.4	64.9	5	6	2	25.6	24.3
1	10	7	74.7	76.5	3	14	4*	7.6	5.2	5	8	2	45.6	44.1
1	12	7*	7.0	2.5	3	16	4	50.2	50.3	5	10	2	17.2	13.9
1	0	8	67.7	66.1	3	0	5	126.7	123.7	5	12	2	60.4	66.5
1	2	8	84.4	83.4	3	2	5	88.4	87.6	5	14	2	14.3	12.0
1	4	8	44.5	45.5	3	4	5	30.5	30.9	5	16	2	39.5	37.6
1	6	8	67.6	66.5	3	6	5	18.0	14.7	5	18	2*	8.1	2.4
1	8	8	13.1	13.0	3	8	5	20.0	25.1	5	0	3	114.4	115.4
1	10	8	25.9	24.6	3	10	5	34.6	35.3	5	2	3	41.0	39.9
1	0	9	19.5	17.7	3	12	5	34.0	33.4	5	4	3	209.3	207.1
1	2	9	27.4	26.5	3	14	5*	0.1	5.3	5	6	3	104.2	101.3
1	4	9*	11.0	6.4	3	16	5*	9.2	3.1	5	8	3	67.1	66.7
1	6	9	11.5	8.7	3	0	6	100.6	97.4	5	10	3	25.5	26.2
1	8	9	13.0	15.7	3	2	6	51.4	49.6	5	12	3	95.4	96.1
3	0	1	73.4	75.1	3	4	6	44.7	45.8	5	14	3	78.3	79.9
3	2	1	17.1	15.5	3	6	6	12.6	10.2	5	16	3	72.0	71.6
3	4	1	15.1	14.0	3	8	6	61.7	63.5	5	0	4	112.6	115.4
3	6	1	39.6	31.6	3	10	6	38.7	38.9	5	2	4*	8.3	1.7
3	8	1	69.9	66.8	3	12	6	61.2	62.6	5	4	4	13.5	11.2
3	10	1	74.6	73.6	3	14	6	32.2	33.3	5	6	4*	5.3	1.1
3	12	1*	6.6	5.6	3	0	7	90.2	88.1	5	8	4	79.5	81.0
3	14	1	12.1	10.6	3	2	7	11.5	11.5	5	10	4	11.9	4.0
3	16	1	33.2	30.7	3	4	7	129.3	128.4	5	12	4	42.8	43.4
3	0	2	34.0	33.7	3	6	7	10.2	10.2	5	14	4	41.5	40.1
3	2	2	53.5	50.1	3	8	7	76.1	76.5	5	16	4	49.6	49.2
3	4	2	70.2	63.2	3	10	7	21.1	20.2	5	0	5	104.6	102.1
3	6	2	54.6	54.2	3	12	7	37.5	38.5	5	2	5	77.9	78.1
3	8	2	12.7	5.1	3	0	8	30.6	30.6	5	4	5	25.6	26.0
3	10	2	75.5	73.2	3	2	8	12.1	11.8	5	6	5	73.5	72.2
3	12	2	52.2	49.9	3	4	8	57.1	56.0	5	8	5	32.1	31.7
3	14	2	52.7	51.3	3	6	8*	9.7	11.4	5	10	5	11.3	10.4
3	16	2	13.6	12.4	3	8	8	33.6	32.5	5	12	5	23.0	21.6
3	0	3	40.4	39.0	3	10	8	30.7	30.6	5	14	5	36.7	36.3
3	2	3	22.6	22.8	3	0	9	94.2	97.5	5	16	5*	7.1	6.1
3	4	3	173.4	174.4	3	2	9	48.5	47.9	5	0	6	19.2	16.3
3	6	3	62.8	60.0	3	4	9	34.5	36.3	5	2	6	25.7	23.2
3	8	3	132.8	129.3	3	6	9	34.5	34.3	5	4	6	113.9	114.2
3	10	3	42.6	39.1	5	0	1	17.2	14.7	5	6	6	48.1	49.3
3	12	3	134.4	135.5	5	2	1	64.3	64.1	5	8	6	50.3	50.3
3	14	3	74.1	73.7	5	4	1	64.5	61.8	5	10	6	36.1	35.2
3	16	3	53.2	58.6	5	6	1	111.6	106.1	5	12	6	69.9	80.9
3	0	4	43.9	44.0	5	8	1	23.5	22.7	5	14	6	26.3	26.6
3	2	4	65.4	64.2	5	10	1	15.5	16.8	5	0	7	113.8	113.7
3	4	4	49.5	43.3	5	12	1	45.2	46.9	5	2	7	10.7	7.7
3	6	4	14.0	16.9	5	14	1	77.0	78.3	5	4	7	118.0	117.8
3	8	4	12.2	7.0	5	16	1	30.1	30.6	5	6	7	25.8	25.7

H	K	L	/FC/	/FC/	H	K	L	/FC/	/FC/	H	K	L	/FC/	/FC/
5	0	7	37.7	39.2	7	2	5	11.3	9.1	9	10	3	66.2	57.2
5	10	7	37.6	37.2	7	4	5*	7.5	3.3	9	12	3	43.3	50.2
5	12	7	46.5	47.6	7	6	5	13.4	9.9	9	14	3	99.9	121.5
5	0	8	54.2	54.3	7	8	5	27.2	26.0	9	0	4	31.9	34.1
5	2	8	13.6	11.4	7	10	5	40.7	40.6	9	2	4	50.3	30.6
5	4	8*	4.0	5.1	7	12	5	25.0	25.5	9	4	4	19.5	19.7
5	6	8	31.4	32.3	7	14	5	31.5	31.5	9	6	4	25.2	25.5
5	8	8	75.6	75.5	7	0	6	49.8	47.4	9	8	4	24.7	23.9
5	10	8*	9.7	9.3	7	2	6	110.3	111.5	9	10	4	50.1	50.2
5	0	9	29.6	30.3	7	4	6	48.5	48.0	9	12	4	20.5	19.2
5	2	9	61.9	60.9	7	6	6	50.5	53.1	9	14	4	22.3	21.5
5	4	9	94.8	96.7	7	8	6	37.7	39.2	9	0	5	24.9	24.1
5	6	9	24.9	23.9	7	10	6	95.0	96.6	9	2	5*	1.4	3.7
7	0	1	131.7	133.7	7	12	6	19.2	15.8	9	4	5	31.5	31.3
7	2	1	39.6	39.8	7	0	7	47.9	45.4	9	6	5	13.5	11.1
7	4	1	33.6	34.7	7	2	7	32.9	30.5	9	8	5	44.3	42.9
7	6	1*	7.0	4.1	7	4	7	31.3	30.0	9	10	5	33.5	32.4
7	8	1	72.6	71.6	7	6	7	64.5	65.5	9	12	5	40.3	40.4
7	10	1	74.5	76.6	7	8	7*	11.0	8.5	9	0	6	59.2	51.5
7	12	1	22.2	23.1	7	10	7	30.6	30.6	9	2	6	92.9	92.7
7	14	1	44.8	46.5	7	0	8	38.0	39.4	9	4	6	20.8	22.1
7	16	1	27.2	27.4	7	2	8	59.4	59.0	9	6	6	107.7	110.3
7	0	2	81.7	76.1	7	4	8*	9.4	3.4	9	8	6	26.7	26.2
7	2	2	32.6	37.6	7	6	8	62.4	61.7	9	10	6	22.7	21.3
7	4	2	41.5	40.0	7	8	8	32.8	34.8	9	0	7	42.9	42.7
7	6	2	29.3	28.4	7	0	9	21.2	22.7	9	2	7	60.9	55.2
7	8	2	57.4	55.6	7	2	9	21.0	22.5	9	4	7	13.5	12.1
7	10	2	70.4	69.9	7	4	9	58.0	56.6	9	6	7	11.0	10.1
7	12	2	19.4	16.8	7	6	9	40.0	40.3	9	8	7	22.9	23.3
7	14	2*	10.1	4.7	7	8	9	159.0	157.6	9	10	7	26.1	26.1
7	16	2	13.1	9.3	7	10	9	68.1	55.7	9	12	7	76.0	76.3
7	0	3	142.2	142.4	7	12	9	10.7	10.1	9	14	7	69.5	71.3
7	2	3	83.3	81.7	7	14	9	22.0	20.0	11	0	1	75.5	74.9
7	4	3	20.5	16.2	7	16	9	55.5	57.2	11	2	1	46.8	45.4
7	6	3	91.0	88.1	7	0	10	75.4	77.5	11	4	1	34.7	34.5
7	8	3	77.9	76.2	7	2	10	49.0	51.8	11	6	1	13.5	12.2
7	10	3	94.9	95.5	7	4	10	28.0	30.1	11	8	1	60.3	57.7
7	12	3	27.2	27.8	7	6	10	52.1	49.5	11	10	1	50.4	55.2
7	14	3	45.5	44.5	7	8	10	44.7	43.4	11	12	1	13.9	12.5
7	16	3	22.0	21.1	7	10	10	93.9	95.7	11	14	1	13.1	10.7
7	0	4	114.0	112.0	7	12	10	16.7	18.4	11	16	1	47.0	41.3
7	2	4	51.5	52.5	7	14	10	6.0	2.5	11	18	2	41.7	38.2
7	4	4	56.1	56.4	7	16	10	33.9	33.8	11	20	2	18.0	17.8
7	6	4	91.3	89.5	7	0	11	57.2	58.4	11	22	2*	1.5	3.5
7	8	4	50.6	59.1	7	2	11	16.8	16.4	11	24	2	52.3	50.9
7	10	4*	6.4	2.7	7	4	11	23.9	23.4	11	26	2	34.9	30.1
7	12	4	26.8	27.1	7	6	11	93.9	91.4	11	28	2	22.9	20.9
7	14	4	40.6	41.5	7	8	11	125.5	122.7	11	30	2*	10.2	10.2
7	16	4	21.8	22.2	7	10	11	131.8	128.3	11	32	3	130.5	131.1
7	0	5*	6.9	3.4	7	12	11	19.0	17.5	11	34	3	42.0	41.1

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
11	4	3	63.9	31.2	13	5	4	21.2	19.8	1	3	2	76.9	76.9
11	6	3*	9.4	5.1	13	3	4	63.4	61.8	1	5	2	245.5	258.1
11	5	3	35.7	19.9	13	10	4*	9.8	7.2	1	7	2	12.1	1.5
11	10	3	61.3	76.5	13	0	5	42.7	41.9	1	9	2	269.4	258.9
11	12	3	23.7	24.8	13	2	5	52.5	51.5	1	11	2	23.4	15.2
11	6	4	33.3	21.2	13	4	5	24.4	23.1	1	13	2	185.4	182.1
11	2	4*	4.4	2.4	13	6	5	59.4	57.4	1	15	2	29.3	29.5
11	4	4	63.3	60.6	13	6	5	26.4	25.5	1	17	2	90.1	89.5
11	6	4	44.2	42.8	13	0	6*	9.1	8.0	1	19	2	81.0	80.8
11	3	4	12.4	7.9	13	2	6	15.6	15.7	1	1	3	50.5	46.7
11	10	4	45.7	45.1	13	4	6	38.6	39.5	1	3	3	154.9	150.7
11	12	4	45.1	50.1	13	0	1	72.1	72.5	1	5	3	60.2	58.4
11	0	5	47.7	46.2	13	2	1	29.3	30.4	1	7	3	123.0	125.7
11	2	5	52.0	42.9	13	4	1	22.3	20.5	1	9	3	94.4	82.7
11	4	5	36.6	36.1	13	6	1*	5.5	3.1	1	11	3	106.5	114.5
11	6	5*	6.3	7.0	13	0	1	49.5	51.1	1	13	3	40.1	38.1
11	3	5*	3.2	3.2	13	0	2	52.7	50.5	1	15	3	53.0	52.5
11	10	5	33.4	34.3	13	2	2	42.0	40.1	1	17	3	15.4	17.5
11	0	6	39.3	101.4	13	4	2	30.4	29.5	1	1	4	40.3	40.1
11	2	6	43.1	49.2	13	6	2	15.3	11.6	1	3	4	55.5	53.3
11	4	6	16.2	15.1	13	8	2	37.9	37.7	1	5	4	94.3	92.4
11	6	6	13.4	13.9	13	0	3	69.0	68.2	1	7	4	111.9	113.5
11	8	6	73.3	76.4	13	2	3	42.3	42.1	1	9	4	136.5	137.9
11	0	7	43.2	43.8	13	4	3	13.4	13.7	1	11	4	95.3	83.7
11	2	7*	10.7	7.6	13	6	3	38.6	38.9	1	13	4	66.9	67.3
11	4	7	91.3	82.3	13	0	4	65.3	63.5	1	15	4	32.3	31.2
11	6	7*	8.3	1.5	13	2	4	23.5	22.9	1	17	4	22.2	20.5
13	0	1	30.3	27.5	13	4	4	35.4	34.5	1	1	5	27.5	25.7
13	2	1	42.3	41.3	13	0	1	14.0	10.7	1	3	5	50.6	58.7
13	4	1	57.4	54.8	1	1	0	11.0	4.7	1	5	5	40.1	40.4
13	6	1	92.1	90.3	1	3	0	81.4	77.7	1	7	5	140.5	140.2
13	8	1*	9.7	4.9	1	5	0	291.6	192.7	1	9	5	64.5	55.5
13	10	1	11.1	8.8	1	7	0	117.2	114.2	1	11	5	104.3	105.3
13	12	1	46.7	47.7	1	9	0	135.8	134.5	1	13	5	27.1	25.5
13	0	2*	6.1	4.7	1	11	0	148.9	145.8	1	15	5	48.8	46.3
13	2	2	11.9	9.8	1	13	0	104.0	104.5	1	1	6	91.9	89.3
13	4	2	64.7	63.2	1	15	0*	8.0	5.8	1	3	6	31.1	30.2
13	6	2	32.0	30.7	1	17	0	27.8	26.0	1	5	6	149.1	149.4
13	8	2	11.1	7.8	1	19	0*	4.2	1.2	1	7	6	24.3	23.0
13	10	2*	11.7	9.1	1	1	1	50.9	52.3	1	9	6	107.0	107.5
13	12	2	50.6	49.0	1	3	1	147.4	149.6	1	11	6	31.9	32.9
13	0	3	76.4	73.4	1	5	1	88.2	85.7	1	13	6	105.2	105.7
13	2	3	15.5	16.2	1	7	1	183.4	179.1	1	15	6*	8.9	1.7
13	4	3	126.3	122.3	1	9	1	56.8	54.4	1	1	7	29.4	24.5
13	6	3	75.6	72.9	1	11	1	150.8	148.2	1	3	7	13.8	8.4
13	8	3	47.8	46.3	1	13	1	23.9	26.0	1	5	7	89.2	89.3
13	10	3*	3.7	7.3	1	15	1	60.0	59.9	1	7	7	50.9	50.3
13	0	4	75.1	78.5	1	17	1	33.5	32.5	1	9	7	90.5	84.1
13	2	4*	5.9	2.5	1	19	1	12.9	10.7	1	11	7	63.3	53.2
13	4	4	22.0	22.3	1	1	2	241.7	234.7	1	13	7	58.8	51.5

the thermal ellipsoid axes and their ratios differ to from a purely geometrical point of view, the only

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
1	1	8	13.4	10.3	3	5	4	109.3	105.8	5	3	1	102.7	131.4
1	3	8	47.4	47.1	3	7	4	96.1	96.1	5	5	1	48.5	48.7
1	5	8	45.2	44.9	3	9	4	91.1	91.9	5	7	1	154.7	173.4
1	7	8	57.5	58.4	3	11	4	74.7	72.8	5	9	1	73.2	76.4
1	9	8	55.0	55.3	3	13	4	65.5	63.4	5	11	1	159.6	160.3
1	11	8	63.7	65.1	3	15	4	37.8	37.6	5	13	1	48.7	48.4
1	1	9	28.3	24.0	3	17	4	13.0	9.6	5	15	1	76.4	77.1
1	3	9	43.1	45.3	3	1	5*	8.3	4.8	5	17	1	20.2	19.5
1	5	9	46.5	45.4	3	3	5	95.0	91.8	5	1	2	218.2	211.2
1	7	9	43.3	50.7	3	5	5	32.2	33.3	5	3	2	51.1	47.7
3	1	0	36.9	37.6	3	7	5	143.3	143.8	5	5	2	194.7	197.3
3	3	0	76.5	72.5	3	9	5	8.5	8.9	5	7	2	31.6	30.8
3	5	0	136.2	131.2	3	11	5	93.5	94.3	5	9	2	232.7	232.5
3	7	0	155.6	152.9	3	13	5	32.7	32.9	5	11	2	18.2	18.3
3	9	0	136.6	134.2	3	15	5	71.0	69.7	5	13	2	152.8	152.7
3	11	0	52.2	46.0	3	1	6	71.7	67.5	5	15	2	48.5	48.2
3	13	0	53.8	52.9	3	3	6	29.2	24.7	5	17	2	47.7	47.7
3	15	0	51.2	51.2	3	5	6	125.3	126.6	5	1	3	17.2	5.7
3	17	0	25.0	25.6	3	7	6	59.5	59.1	5	3	3	165.3	133.5
3	19	0	51.4	50.7	3	9	6	137.3	139.5	5	5	3	93.9	99.4
3	1	1	30.1	27.0	3	11	6*	9.3	4.1	5	7	3	127.7	128.4
3	3	1	144.1	140.8	3	13	6	68.9	68.7	5	9	3	97.9	46.1
3	5	1	63.6	67.2	3	15	6*	5.1	2.5	5	11	3	119.0	116.5
3	7	1	208.4	205.5	3	1	7	23.7	15.3	5	13	3	55.5	53.0
3	9	1	92.3	91.4	3	3	7	11.5	8.3	5	15	3	54.8	58.3
3	11	1	139.8	140.0	3	5	7	90.7	91.5	5	17	3*	9.6	4.3
3	13	1	39.8	38.6	3	7	7	58.5	58.4	5	1	4	19.6	20.4
3	15	1	96.3	96.0	3	9	7	53.6	87.1	5	3	4	67.7	66.3
3	17	1	18.5	13.3	3	11	7	62.5	63.2	5	5	4	126.7	124.4
3	19	1*	13.6	12.0	3	13	7	59.3	61.4	5	7	4	10.7	10.3
3	1	2	172.9	166.6	3	1	8*	7.6	1.3	5	9	4	71.3	72.0
3	3	2	153.2	148.1	3	3	8	72.1	73.0	5	11	4	101.1	99.3
3	5	2	240.1	260.4	3	5	8	53.9	54.0	5	13	4	72.0	71.2
3	7	2	40.7	1.1	3	7	8	59.3	70.5	5	15	4*	10.2	8.8
3	9	2	247.4	249.5	3	9	8	28.0	27.1	5	17	4*	10.1	6.9
3	11	2	17.2	14.9	3	11	8	65.4	66.8	5	1	5	24.3	24.5
3	13	2	163.5	162.2	3	1	9	16.5	12.9	5	3	5	167.5	136.1
3	15	2	76.6	76.7	3	3	9	18.2	17.7	5	5	5	54.7	54.2
3	17	2	71.7	70.8	3	5	9	43.7	42.2	5	7	5	107.7	117.1
3	1	3	51.3	46.7	3	7	9	64.8	68.1	5	9	5	45.5	46.2
3	3	3	82.3	81.4	5	1	0	54.6	53.5	5	11	5	137.4	141.4
3	5	3	127.7	123.7	5	3	0	79.1	76.3	5	13	5	49.3	49.1
3	7	3	168.9	172.8	5	5	0	118.2	113.4	5	15	5	32.5	31.1
3	9	3	78.8	77.9	5	7	0	85.3	85.3	5	1	6	54.2	51.9
3	11	3	115.9	112.7	5	9	0	121.5	122.4	5	3	6	16.2	15.2
3	13	3	47.5	44.4	5	11	0	104.3	102.8	5	5	6	188.4	188.3
3	15	3	55.1	55.1	5	13	0	68.4	69.0	5	7	6	33.6	33.5
3	17	3	18.8	17.9	5	15	0	13.5	11.0	5	9	6	117.3	119.3
3	1	4	23.7	24.0	5	17	0	12.5	10.3	5	11	6	19.5	20.9
3	3	4	66.0	63.5	5	1	1	25.5	19.5	5	13	6	72.0	74.1

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trans crystallographic least-squares program. Oak Ridge National Laboratory, Doc. ORNL-TM-305.
Donnay, G. and R. Allmann (1970) How to recognize O²⁻, OH⁻

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
5	1	7	53.3	50.2	7	3	4	16.0	16.6	9	1	2	164.6	150.9
5	3	7	30.9	26.8	7	5	4	82.6	80.3	9	3	2	43.6	43.3
5	5	7	54.1	55.0	7	7	4	122.0	124.0	9	5	2	155.2	156.4
5	7	7	50.5	47.0	7	9	4	110.4	111.8	9	7	2	18.8	13.9
5	9	7	110.8	114.7	7	11	4	74.8	74.2	9	9	2	213.4	216.0
5	11	7	41.5	40.0	7	13	4	45.5	44.9	9	11	2	13.3	12.7
5	1	8	22.1	22.4	7	15	4	34.8	34.6	9	13	2	131.1	134.3
5	3	8	70.1	71.0	7	1	5*	6.7	4.6	9	15	2	12.1	11.1
5	5	8	24.9	25.9	7	3	5	63.0	61.1	9	1	3	41.7	40.3
5	7	8	61.1	63.6	7	5	5	26.0	25.0	9	3	3	95.0	93.3
5	9	8	52.4	53.8	7	7	5	130.3	138.5	9	5	3	38.1	34.0
5	11	8*	10.7	11.1	7	9	5	78.0	80.7	9	7	3	65.9	68.1
5	3	9	32.9	35.1	7	11	5	52.2	51.8	9	9	3	84.0	84.1
5	5	9	47.1	48.6	7	13	5	13.4	13.6	9	11	3	71.2	71.7
7	1	0	35.9	36.5	-7	15	5	70.0	70.6	9	13	3	34.9	35.8
7	3	0	60.1	61.0	7	1	6	80.6	85.9	9	15	3	44.2	46.4
7	5	0	77.4	71.9	7	3	6	20.1	18.2	9	1	4	33.6	34.1
7	7	0	145.2	147.2	7	5	6	117.4	118.5	9	3	4	69.9	68.9
7	9	0	152.4	154.9	7	7	6	28.1	28.2	9	5	4	60.8	58.3
7	11	0	64.1	62.7	7	9	6	104.5	106.8	9	7	4	64.9	64.7
7	13	0	50.0	51.6	7	11	6*	11.0	7.4	9	9	4	80.6	81.8
7	15	0	53.3	61.4	7	13	6	84.9	87.0	9	11	4	93.1	92.7
7	17	0	23.4	24.7	7	1	7*	7.1	3.3	9	13	4	63.9	63.6
7	1	1	35.5	32.7	7	3	7*	8.6	2.4	9	1	5	29.9	30.9
7	3	1	63.6	67.6	7	5	7	79.3	79.5	9	3	5	70.0	70.0
7	5	1	41.4	39.9	7	7	7	56.7	55.8	9	5	5	38.7	38.2
7	7	1	181.0	180.3	7	9	7	74.3	77.2	9	7	5	93.9	95.5
7	9	1	73.0	77.0	7	11	7	60.0	61.1	9	9	5	39.4	38.9
7	11	1	91.6	91.5	7	1	8	25.9	25.3	9	11	5	105.6	109.2
7	13	1	14.2	10.9	7	3	8	31.9	31.9	9	13	5	23.1	22.5
7	15	1	77.0	78.6	7	5	8	45.0	44.8	9	1	6	60.9	58.9
7	17	1	17.4	13.1	7	7	8	66.3	90.2	9	3	6	17.4	16.5
7	1	2	136.8	133.7	7	1	9	26.4	24.6	9	5	6	104.0	105.2
7	3	2	90.9	93.6	7	3	9	29.2	30.9	9	7	6	23.7	24.7
7	5	2	249.7	254.3	7	5	9	11.2	9.3	9	9	6	89.2	91.1
7	7	2	16.9	4.6	7	7	9	69.1	67.6	9	11	6	38.4	37.5
7	9	2	193.2	196.1	7	9	9	138.9	137.1	9	1	7	40.7	41.3
7	11	2	12.3	10.2	7	11	9	58.3	58.2	9	3	7	21.2	19.5
7	13	2	160.8	161.8	7	13	9	81.2	81.5	9	5	7	64.3	66.3
7	15	2	46.6	44.8	7	15	9	137.2	137.3	9	7	7	54.0	34.4
7	17	2	38.6	31.7	7	17	9	92.7	94.3	9	9	7	76.9	79.8
7	1	3	37.7	36.1	7	1	10	13.6	11.7	9	1	8*	7.4	6.9
7	3	3	80.2	80.2	7	3	10	24.8	23.5	9	3	8	45.2	44.9
7	5	3	107.2	106.0	7	5	10	120.0	117.7	9	5	8	28.9	28.5
7	7	3	115.6	115.6	7	7	10	54.6	54.9	11	1	0*	6.4	2.1
7	9	3	44.3	41.0	7	9	10	110.9	115.7	11	3	0	45.5	43.3
7	11	3	109.0	109.3	7	11	10	37.3	34.5	11	5	0	60.0	57.7
7	13	3	42.4	41.4	7	13	10	117.6	119.1	11	7	0	103.8	104.8
7	15	3	25.8	24.3	7	15	10	24.8	23.1	11	9	0	75.5	73.2
7	1	4	14.8	10.4	7	1	11	35.7	36.9	11	11	0	45.6	45.1

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
11	13	0	42.9	43.2	11	11	5	51.4	54.6	13	3	4	38.4	36.1
11	15	0	43.0	42.1	11	1	6	41.3	41.7	13	5	4	61.2	60.4
11	1	1	26.3	22.3	11	3	6	22.9	21.5	13	7	4	56.5	57.4
11	3	1	31.3	31.8	11	5	6	94.3	96.5	13	9	4	59.1	56.7
11	5	1	50.5	43.2	11	7	6	41.4	40.4	13	1	5	12.0	11.4
11	7	1	125.5	125.2	11	9	6	95.6	96.5	13	3	5	66.1	57.4
11	9	1	50.1	55.1	11	1	7*	11.2	2.4	13	5	5	26.9	26.9
11	11	1	96.5	99.6	11	3	7*	8.9	8.9	13	7	5	74.6	75.5
11	13	1	33.5	33.6	11	5	7	74.7	75.7	13	1	6	44.7	45.1
11	1	2	112.6	111.1	13	1	0	10.5	3.5	13	3	6	14.3	9.7
11	3	2	67.9	64.5	13	3	0	23.3	23.3	13	5	6	72.9	7.2
11	5	2	165.5	165.0	13	5	0	67.6	67.0	15	1	0	10.1	15.3
11	7	2*	8.7	10.0	13	7	0	62.1	62.9	15	3	0	47.7	49.4
11	9	2	166.9	169.5	13	9	0	79.2	78.9	15	5	0	49.4	49.0
11	11	2*	6.1	1.6	13	11	0	78.3	79.3	15	7	0	71.4	70.8
11	13	2	110.2	113.2	15	1	1*	10.1	11.1	15	9	0	61.3	60.7
11	1	3	12.2	9.2	13	3	1	91.2	87.8	15	1	1*	7.0	4.8
11	3	3	61.3	61.5	13	5	1	47.2	46.1	15	3	1	60.0	60.2
11	5	3	66.5	61.9	13	7	1	101.6	103.5	15	5	1	25.9	23.5
11	7	3	106.3	106.2	13	9	1	45.9	45.6	15	7	1	53.0	57.2
11	9	3	66.4	66.9	13	11	1	94.2	94.7	15	9	1	46.7	46.8
11	11	3	73.2	73.9	13	1	2	112.3	106.8	15	1	2	94.3	91.5
11	13	3	21.8	22.0	13	3	2	31.6	32.2	15	3	2	26.5	25.2
11	1	4	22.4	22.3	13	5	2	126.8	128.5	15	5	2	116.3	116.1
11	3	4	54.6	53.6	13	7	2*	8.1	1.3	15	7	2*	10.5	6.5
11	5	4	49.7	48.4	13	9	2	126.9	129.6	15	1	3*	7.3	4.9
11	7	4	77.3	78.3	15	11	2	26.9	25.0	15	3	3	63.1	62.3
11	9	4	73.2	72.4	13	1	3*	2.9	3.8	15	5	3	51.3	48.3
11	11	4	50.9	50.1	13	3	3	43.0	41.2	15	7	3	48.3	47.3
11	1	5	13.5	9.1	13	5	3	54.3	52.2	15	1	4*	9.3	7.3
11	3	5	62.4	62.6	13	7	3	90.2	92.1	15	3	4	25.9	26.2
11	5	5	23.1	22.7	13	9	3	72.5	71.3	15	5	4	53.1	52.1
11	7	5	99.9	100.2	13	11	3	61.3	61.5	17	1	0	22.4	20.9
11	9	5	62.0	63.1	13	1	4	13.6	9.3	17	1	1	13.0	5.1

Table 4. (continued) : Observed and calculated structure factors
Taramellite from Candoglia (Italy)

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	2	0	133.2	144.9	0	4	5	60.4	65.9	2	10	1	44.4	43.3
0	4	0	211.8	232.5	0	6	5*	21.2	13.1	2	12	1	65.1	57.4
0	6	0	63.0	57.5	0	8	5	45.9	38.9	2	14	1*	37.1	25.7
0	8	0	433.8	437.1	0	10	5	127.7	133.7	2	16	1	108.2	115.9
0	10	0	126.3	123.7	0	12	5	105.1	103.4	2	18	1*	32.3	28.7
0	12	0	206.0	209.0	0	14	5*	12.3	21.7	2	0	2	341.5	335.9
0	14	0*	0.	17.4	0	16	5	59.9	52.3	2	2	2	104.4	115.1
0	16	0	91.3	95.6	0	0	6	157.9	156.3	2	4	2	115.8	110.1
0	18	0	165.2	168.3	0	2	6	192.7	193.6	2	6	2	101.3	101.2
0	0	1*	14.6	21.4	0	4	6	66.3	70.7	2	8	2	133.4	132.6
0	2	1	26.3	16.1	0	6	6	157.6	159.7	2	10	2	87.5	90.3
0	4	1	151.5	153.1	0	8	6	74.9	73.0	2	12	2*	36.0	34.5
0	6	1	107.0	99.0	0	10	6	65.7	69.4	2	14	2*	17.1	3.7
0	8	1	41.6	43.6	0	12	6*	39.5	33.6	2	16	2*	40.1	29.2
0	10	1	74.9	76.2	0	14	6*	0.	12.5	2	18	2	126.8	131.5
0	12	1	205.4	204.3	0	0	7*	32.5	14.5	2	0	3	152.6	157.1
0	14	1	95.2	92.3	0	2	7	74.7	76.6	2	2	3	164.4	150.3
0	16	1	157.9	164.3	0	4	7	58.7	60.4	2	4	3*	24.0	19.9
0	18	1	98.8	87.3	0	6	7*	2.4	3.6	2	6	3	179.1	175.4
0	0	2	99.0	108.2	0	8	7	57.2	57.1	2	8	3*	31.2	39.9
0	2	2	375.8	370.6	0	10	7	42.6	38.0	2	10	3*	31.1	33.3
0	4	2	387.4	387.1	0	12	7*	32.5	30.2	2	12	3	93.1	92.0
0	6	2	202.3	200.4	0	14	7	91.8	99.4	2	14	3*	34.1	29.7
0	8	2	65.5	69.2	0	0	8	130.1	129.3	2	16	3	75.1	78.6
0	10	2	175.7	175.1	0	2	8	83.5	81.9	2	18	3	72.1	78.1
0	12	2	42.9	43.0	0	4	8	156.9	155.6	2	0	4	144.9	143.3
0	14	2*	41.3	45.2	0	6	8*	28.3	3.7	2	2	4	66.4	53.1
0	16	2*	0.	1.3	0	8	8*	35.5	36.1	2	4	4	269.1	258.4
0	18	2	57.9	49.5	0	10	8*	16.0	9.5	2	6	4*	22.3	8.8
0	0	3*	24.3	26.4	0	0	9	99.7	101.8	2	8	4	57.4	58.2
0	2	3	165.9	157.5	0	2	9*	0.	21.4	2	10	4	47.5	38.0
0	4	3*	0.	4.5	0	4	9*	32.8	28.3	2	12	4	55.1	52.1
0	6	3	116.1	121.7	0	6	9*	25.7	27.9	2	14	4	110.5	114.6
0	8	3	177.6	177.2	0	8	9	55.6	53.8	2	16	4*	12.1	13.4
0	10	3	59.6	61.4	0	0	10	98.7	96.0	2	0	5*	22.3	7.7
0	12	3	90.8	90.8	2	0	0	171.6	178.5	2	2	5	123.0	121.3
0	14	3	142.4	144.0	2	2	0*	23.1	17.4	2	4	5	212.2	212.9
0	16	3	143.3	146.4	2	4	0	464.5	474.8	2	6	5*	4.9	7.2
0	18	3*	35.3	31.4	2	6	0	63.3	68.1	2	8	5	42.5	40.6
0	0	4	426.7	418.6	2	8	0	75.6	80.0	2	10	5*	40.9	49.6
0	2	4	77.2	85.1	2	10	0	65.8	68.6	2	12	5*	0.	15.2
0	4	4	269.8	271.7	2	12	0	135.7	132.0	2	14	5	94.6	95.9
0	6	4	66.4	67.2	2	14	0	192.4	193.2	2	16	5	54.4	57.5
0	8	4	282.4	287.7	2	16	0*	0.	2.3	2	0	6	69.7	72.3
0	10	4*	19.6	16.6	2	18	0	81.6	85.6	2	2	6	120.3	119.1
0	12	4	94.6	88.8	2	0	1	29.0	24.2	2	4	6	87.7	87.7
0	14	4	75.5	79.8	2	2	1	245.9	239.4	2	6	6	78.3	81.6
0	16	4	47.1	30.5	2	4	1	136.0	135.1	2	8	6*	15.0	6.3
0	0	5	194.2	195.3	2	6	1	154.4	152.9	2	10	6*	16.5	11.6
0	2	5*	19.8	21.4	2	8	1	61.3	59.2	2	12	6*	34.1	30.4

H	K	L	/FO/	/FC/
2	1	8*	6.1	22.2
2	0	7	166.1	164.2
2	2	7	81.7	85.5
2	4	7*	27.7	14.6
2	6	7	108.0	107.0
2	8	7	56.0	52.7
2	10	7	56.5	50.2
2	12	7	46.4	48.1
2	0	8	138.0	141.6
2	2	8*	37.7	32.4
2	4	8	59.1	60.6
2	6	8	49.6	51.7
2	8	8	77.5	77.9
2	10	8	50.2	54.2
2	0	9*	39.7	41.9
2	2	9	68.7	58.8
2	4	9	109.0	113.4
2	6	9*	0.	3.3
2	8	9*	0.	3.7
4	0	0	416.6	416.7
4	2	0	212.0	226.1
4	4	0	139.3	132.4
4	6	0	203.8	216.1
4	8	0	143.8	141.6
4	10	0	337.2	337.1
4	12	0*	33.8	13.7
4	14	0	152.4	153.8
4	16	0*	0.	26.8
4	18	0	241.3	238.0
4	0	1	252.4	259.7
4	2	1	344.1	343.5
4	4	1	166.2	172.8
4	6	1	283.8	285.7
4	8	1	159.7	160.7
4	10	1	146.5	150.5
4	12	1*	32.0	26.6
4	14	1*	37.1	30.2
4	16	1	46.4	41.0
4	18	1*	11.5	16.9
4	0	2*	22.0	16.6
4	2	2	107.7	96.5
4	4	2*	17.9	6.3
4	6	2	111.9	113.6
4	8	2	128.2	132.6
4	10	2*	25.0	20.9
4	12	2	66.8	69.2
4	14	2	164.1	163.7
4	16	2	145.6	144.4
4	18	2	77.3	69.2
4	0	3	178.7	179.1

H	K	L	/FO/	/FC/
4	2	3	325.9	320.5
4	4	3	229.1	231.7
4	6	3	189.4	187.3
4	8	3*	24.7	14.3
4	10	3	128.5	127.2
4	12	3*	36.8	38.0
4	14	3*	34.2	24.5
4	16	3*	35.1	34.7
4	18	3*	38.8	37.1
4	0	4	177.6	171.8
4	2	4	139.3	138.1
4	4	4	82.2	81.2
4	6	4*	29.9	33.2
4	8	4	127.6	130.3
4	10	4	186.7	189.3
4	12	4	51.0	47.5
4	14	4	157.1	159.5
4	16	4*	53.5	41.2
4	0	5	361.2	362.2
4	2	5	163.5	182.3
4	4	5	58.1	56.8
4	6	5	105.8	101.3
4	8	5	150.2	148.7
4	10	5*	1.2	15.2
4	12	5*	20.2	15.1
4	14	5*	38.0	40.4
4	16	5*	9.1	1.9
4	0	6*	24.2	9.8
4	2	6	90.9	85.3
4	4	6*	20.4	5.2
4	6	6	41.8	33.1
4	8	6	40.3	45.0
4	10	6*	0.	3.8
4	12	6	80.6	89.1
4	14	6	48.8	47.8
4	0	7*	5.1	19.0
4	2	7	137.9	143.3
4	4	7	101.7	159.8
4	6	7	81.2	80.2
4	8	7*	0.	5.5
4	10	7	63.5	67.2
4	12	7*	20.9	7.0
4	0	8	72.3	73.8
4	2	8*	41.1	31.4
4	4	8	97.5	97.0
4	6	8	53.0	48.7
4	8	8*	10.8	3.5
4	10	8*	19.8	19.0
4	0	9	126.3	127.6
4	2	9*	45.9	47.4

H	K	L	/FO/	/FC/
4	4	9	53.6	52.6
4	6	9*	43.0	51.5
6	0	3	171.6	179.3
6	2	0*	26.6	7.5
6	4	0	319.9	326.7
6	6	0	142.8	140.7
6	8	0	52.6	51.0
6	10	0	50.7	49.1
6	12	0	90.5	115.5
6	14	0	197.4	196.4
6	16	0*	22.1	17.3
6	18	0	69.6	95.5
6	0	1	58.1	51.5
6	2	1	226.7	228.5
6	4	1	124.4	126.3
6	6	1	128.3	120.3
6	8	1*	14.5	17.5
6	10	1	76.6	74.5
6	12	1	54.7	59.3
6	14	1*	0.	22.3
6	16	1	79.2	77.3
6	18	1*	12.0	9.7
6	0	2	210.2	211.2
6	2	2	69.4	58.0
6	4	2	63.7	58.3
6	6	2	85.4	81.0
6	8	2	93.1	95.8
6	10	2	81.5	51.3
6	12	2	64.7	56.1
6	14	2*	43.2	28.6
6	16	2*	23.2	30.5
6	0	3	204.1	214.2
6	2	3	162.4	151.5
6	4	3*	21.3	3.3
6	6	3	167.0	150.4
6	8	3	61.3	63.2
6	10	3*	5.0	5.3
6	12	3	63.3	63.4
6	14	3*	29.5	27.3
6	16	3	68.5	59.7
6	0	4	180.3	185.8
6	2	4*	33.4	34.1
6	4	4	164.2	152.4
6	6	4	37.3	28.1
6	8	4	57.1	57.1
6	10	4	50.2	59.1
6	12	4	45.0	44.5
6	14	4	105.5	112.4
6	16	4*	36.5	34.3
6	0	5	44.6	42.1

H	K	L	/FO/	/FC/
6	2	5	111.9	112.6
6	4	5	174.4	174.4
6	6	5	45.0	35.7
6	8	5*	7.1	5.0
6	10	5*	38.6	37.8
6	12	5*	29.5	12.1
6	14	5	68.4	70.6
6	0	6*	34.9	39.0
6	2	6	105.0	101.2
6	4	6	69.9	73.0
6	6	6	63.1	61.0
6	8	6*	19.3	0.8
6	10	6*	27.1	16.9
6	12	6*	40.8	45.0
6	14	6*	31.4	39.6
6	0	7	133.3	133.3
6	2	7	93.3	96.3
6	4	7*	2.9	13.0
6	6	7	75.2	69.3
6	8	7*	39.2	40.7
6	10	7*	30.3	0.3
6	12	7*	36.2	35.8
6	0	8	121.9	119.7
6	2	8*	33.9	32.9
6	4	8	63.1	59.0
6	6	8*	31.1	25.0
6	8	8	59.1	64.4
6	0	9*	45.5	53.7
6	2	9*	45.2	51.1
6	4	9	88.3	88.1
6	6	0	544.5	552.5
6	8	0	66.1	95.5
6	10	0	249.7	260.1
6	12	0*	30.9	15.3
6	14	0	250.7	263.4
6	0	10	66.6	68.4
6	2	10	143.9	152.1
6	4	10*	37.0	37.8
6	6	10	87.1	82.7
6	8	0	55.9	57.0
6	10	1*	31.8	37.7
6	12	1*	42.6	33.6
6	14	1	59.8	63.2
6	0	1	63.1	61.2
6	2	1	60.7	53.9
6	4	1	145.2	143.6
6	6	1	73.2	69.9
6	8	1	129.2	126.4
6	10	2	107.5	110.4
6	12	2	227.7	226.6

H	K	L	/FO/	/FC/
8	4	2	248.2	252.3
8	6	2	158.5	160.7
8	8	2	56.0	52.0
8	10	2	86.2	84.8
8	12	2*	37.6	37.3
8	14	2*	19.8	1.4
8	0	2*	10.8	9.9
8	2	3*	24.1	11.6
8	4	3	93.5	90.9
8	6	3*	18.7	1.8
8	8	3*	23.4	21.1
8	10	3	119.5	116.4
8	12	3*	24.2	2.4
8	14	3	71.1	70.8
8	0	3	75.2	76.5
8	2	4	126.4	126.7
8	4	4	271.6	269.5
8	6	4	63.3	64.2
8	8	4	219.2	218.3
8	10	4	70.9	68.3
8	12	4*	190.9	191.8
8	14	4*	30.1	25.4
8	0	4	68.2	70.5
8	2	4*	49.5	54.4
8	4	5	100.5	100.0
8	6	5*	0.	24.4
8	8	5*	21.3	3.3
8	10	5*	0.	3.4
8	12	5*	14.3	6.2
8	14	5	86.2	89.4
8	0	5	63.4	59.5
8	2	5*	40.9	32.3
8	4	6	97.1	99.0
8	6	6	150.3	150.4
8	8	6	81.3	78.9
8	10	6	120.2	120.7
8	12	6*	35.5	42.9
8	14	6	49.8	54.3
8	0	6*	20.2	19.9
8	2	7*	0.	6.5
8	4	7	62.1	58.9
8	6	7	46.0	44.5
8	8	7*	38.8	22.5
8	10	7	48.8	43.0
8	12	7*	0.	10.0
8	14	7	99.3	101.9
8	0	8	68.9	62.5
8	2	8	123.7	126.0
8	4	8*	11.6	14.7
8	6	8*	217.9	226.8

H	K	L	/FO/	/FC/
10	2	0*	0.	6.5
10	4	0	229.9	234.9
10	6	0*	23.0	4.5
10	8	0	124.4	131.5
10	10	0	70.6	76.4
10	12	0	87.0	83.3
10	14	0	107.0	107.3
10	0	1	68.3	68.3
10	2	1	120.5	123.9
10	4	1*	14.9	12.0
10	6	1	70.2	68.5
10	8	1*	18.3	23.5
10	10	1*	12.3	19.4
10	12	1	65.2	64.1
10	14	1*	27.8	34.5
10	0	2	191.2	193.5
10	2	2	129.9	130.7
10	4	2	65.3	57.5
10	6	2	46.5	44.4
10	8	2	79.4	77.3
10	10	2*	30.1	26.3
10	12	2*	19.8	15.9
10	14	2*	22.5	28.5
10	0	3	64.8	64.5
10	2	3	105.4	113.4
10	4	3*	9.7	16.5
10	6	3	67.3	65.3
10	8	3*	12.1	10.9
10	10	3*	22.5	11.1
10	12	3	79.4	80.7
10	14	3*	45.9	33.5
10	0	4	158.8	153.0
10	2	4	50.3	47.0
10	4	4	169.8	156.1
10	6	4*	20.6	3.9
10	8	4	88.6	82.5
10	10	4*	23.5	26.0
10	12	4*	39.5	32.2
10	14	4	71.1	65.4
10	0	5	68.0	71.7
10	2	5	75.6	76.5
10	4	5*	0.	8.7
10	6	5*	20.2	1.4
10	8	5*	10.5	11.1
10	10	5*	26.7	7.3
10	12	5*	82.5	84.4
10	14	5*	97.8	102.9
10	0	6*	39.1	39.5
10	2	6	64.2	64.7
10	4	6*	0.	17.9

H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/	H	K	L	/FO/	/FO/
10	10	6*	25.8	25.5	12	6	6*	41.0	39.8	0	7	1	172.1	158.5
10	0	7	93.4	93.7	12	0	7	66.0	56.1	0	9	1*	37.7	47.3
10	2	7	59.7	65.4	12	2	7	81.5	86.3	0	11	1*	31.5	24.5
10	4	7*	6.4	6.2	14	0	0	161.3	165.2	0	13	1	73.4	84.1
10	6	7	59.7	54.8	14	2	0*	17.2	20.3	0	15	1	90.4	11.7
10	8	7*	28.3	24.9	14	4	0	91.9	100.0	0	17	1*	40.3	44.5
10	0	8	105.4	100.3	14	6	0	61.6	62.5	0	19	1*	30.5	37.3
10	2	8*	41.9	29.3	14	8	0	71.3	70.5	0	1	2*	18.5	19.3
12	0	0	147.0	154.7	14	10	0	65.2	70.4	0	3	2	49.0	45.5
12	2	0	80.0	80.2	14	0	1	82.2	83.4	0	5	2	110.5	108.4
12	4	0	103.8	107.2	14	2	1	129.1	126.8	0	7	2*	30.5	24.8
12	6	0	99.0	100.2	14	4	1	60.9	54.3	0	9	2*	29.7	33.7
12	8	0	46.0	49.6	14	6	1	81.4	82.3	0	11	2*	22.9	2.3
12	10	0	166.3	169.3	14	8	1*	33.3	20.4	0	13	2*	26.1	18.5
12	12	0*	35.0	6.5	14	10	1*	47.2	45.1	0	15	2*	25.0	3.1
12	0	1	115.2	114.7	14	0	2	53.0	46.7	0	17	2	48.7	47.1
12	2	1	171.6	174.2	14	2	2	57.1	57.2	0	19	2*	38.0	40.3
12	4	1	111.9	113.1	14	4	2*	36.4	38.5	0	1	3	110.3	117.3
12	6	1	156.7	160.4	14	6	2*	23.0	23.5	0	3	3	67.9	77.2
12	8	1	68.0	66.5	14	8	2*	8.7	13.2	0	5	3	77.9	76.2
12	10	1	72.1	68.9	14	10	2*	24.4	8.2	0	7	3	107.2	115.0
12	12	1*	0.	8.6	14	0	3	90.1	94.0	0	9	3*	25.9	34.7
12	0	2*	22.6	5.1	14	2	3	106.1	109.9	0	11	3*	21.4	30.7
12	2	2	44.8	38.0	14	4	3*	43.6	39.5	0	13	3*	18.3	22.5
12	4	2*	17.1	20.2	14	6	3	67.4	68.2	0	15	3*	29.7	17.3
12	6	2*	14.1	6.4	14	8	3*	31.0	32.5	0	17	3*	27.8	47.3
12	8	2	58.8	55.6	14	0	4	134.8	133.5	0	1	4	41.6	44.5
12	10	2*	34.6	36.2	14	2	4*	27.1	9.3	0	3	4	122.1	124.9
12	12	2	52.3	51.8	14	4	4	59.7	62.4	0	5	4	60.0	57.4
12	0	3	89.9	90.7	14	6	4*	21.3	25.1	0	7	4	97.1	94.2
12	2	3	167.1	158.6	14	8	4*	50.8	44.1	0	9	4	56.3	48.8
12	4	3	131.0	127.9	14	0	5	84.5	82.2	0	11	4*	41.5	47.5
12	6	3	133.8	126.8	14	2	5	59.5	65.4	0	13	4*	6.7	7.7
12	8	3*	9.7	11.9	14	4	5	63.3	66.7	0	15	4	85.5	94.5
12	10	3	50.5	52.0	16	0	0	170.8	170.9	0	17	4*	38.0	47.2
12	12	3*	32.5	20.2	16	2	0	58.9	54.8	0	1	5	117.5	118.3
12	0	4	63.2	62.6	16	4	0	167.5	174.0	0	3	5	41.5	48.9
12	2	4	50.1	44.0	16	6	0*	26.1	14.8	0	5	5	114.0	116.2
12	4	4	90.1	92.3	16	0	1*	38.2	24.7	0	7	5	57.5	59.5
12	6	4	46.1	36.0	16	2	1*	29.1	36.2	0	9	5	70.0	75.1
12	8	4	50.0	41.6	16	4	1*	20.5	11.7	0	11	5	80.5	83.7
12	10	4	87.3	90.5	16	6	1*	17.3	20.9	0	13	5	56.7	56.2
12	0	5	150.4	145.2	16	0	2	101.2	100.7	0	15	5	43.5	32.4
12	2	5	110.7	112.1	16	2	2	100.7	104.9	0	1	5*	11.5	23.3
12	4	5	103.1	97.9	16	4	2	88.8	83.8	0	3	5*	26.1	24.8
12	6	5	52.1	48.1	16	0	3*	29.2	34.4	0	5	5*	12.9	11.7
12	8	5	63.5	64.1	16	2	3*	44.2	39.1	0	7	6	49.0	49.4
12	0	6*	16.7	4.2	0	1	1	82.0	80.3	0	9	6	65.3	53.3
12	2	6	49.8	50.5	0	3	1	80.7	80.2	0	11	6	58.5	58.2
12	4	6*	0.	9.5	0	5	1	124.3	123.7	0	13	6*	11.9	1.2

H	K	L	/FO/	/FC/
0	15	6*	23.5	2.9
0	1	7*	0.	2.4
0	3	7*	33.3	33.2
0	5	7*	0.	22.2
0	7	7*	25.3	21.9
0	9	7*	26.1	4.4
0	11	7*	0.	14.1
0	13	7*	0.	1.9
0	1	8*	38.5	56.6
0	3	8	44.5	50.2
0	5	8*	0.	9.7
0	7	8	83.4	87.5
0	9	8*	0.	17.0
0	11	8*	46.2	54.1
0	1	9*	24.4	13.1
0	3	9*	31.3	38.7
0	5	9*	39.9	49.5
0	7	9*	13.7	14.5
0	1	10*	0.	19.7
2	1	1	80.6	79.3
2	3	1	125.8	125.6
2	5	1	110.9	111.0
2	7	1	54.8	50.7
2	9	1	70.4	73.2
2	11	1	81.8	79.1
2	13	1	65.1	68.6
2	15	1*	15.9	30.2
2	17	1*	30.6	22.1
2	19	1	53.1	49.7
2	1	2	23.7	29.0
2	3	2*	23.5	29.4
2	5	2*	6.8	7.0
2	7	2	40.1	37.7
2	9	2*	0.	20.9
2	11	2*	2.8	14.3
2	13	2*	2.9	8.6
2	15	2*	11.7	31.5
2	17	2*	23.9	23.2
2	19	2*	13.2	3.4
2	1	3*	25.2	31.7
2	3	3	79.1	75.4
2	5	3	36.5	22.5
2	7	3	30.1	28.4
2	9	3*	6.4	10.9
2	11	3	53.6	62.1
2	13	3*	30.7	14.9
2	15	3*	5.9	4.5
2	17	3*	6.7	9.3
2	1	4	36.5	32.4
2	3	4	85.1	80.3

H	K	L	/FO/	/FC/
2	5	4*	19.6	23.3
2	7	4*	31.8	29.7
2	9	4*	14.9	15.9
2	11	4	80.1	81.5
2	13	4*	32.8	31.2
2	15	4*	0.	10.5
2	17	4*	28.0	3.4
2	1	5	108.8	108.7
2	3	5	81.8	80.2
2	5	5	90.4	90.1
2	7	5	69.4	64.5
2	9	5	108.1	110.2
2	11	5	45.5	45.2
2	13	5	67.8	71.7
2	15	5	48.6	46.1
2	1	6*	4.6	9.4
2	3	6	61.9	61.1
2	5	6*	21.9	23.2
2	7	6	65.7	58.1
2	9	6*	27.0	6.1
2	11	6*	31.2	18.7
2	13	6*	9.6	4.7
2	15	6	58.6	57.3
2	1	7*	8.3	3.5
2	3	7*	43.0	28.3
2	5	7*	24.0	7.1
2	7	7*	37.0	33.8
2	9	7*	21.7	8.9
2	11	7*	31.6	26.3
2	13	7*	2.3	21.1
2	1	8*	10.5	28.2
2	3	8*	37.6	43.2
2	5	8*	19.0	7.5
2	7	8*	26.2	26.2
2	9	8*	18.2	0.5
2	11	8	58.9	70.1
2	1	9	43.8	42.0
2	3	9*	29.4	2.0
2	5	9*	40.0	58.1
2	7	9*	22.7	24.7
4	1	1	43.4	45.2
4	3	1	205.2	196.1
4	5	1*	26.3	29.9
4	7	1	53.4	47.9
4	9	1	150.4	155.4
4	11	1*	33.2	15.5
4	13	1*	23.5	18.9
4	15	1	85.1	82.5
4	17	1	62.7	65.6
4	1	2	91.1	83.1

H	K	L	/FO/	/FC/
4	3	2	125.0	122.1
4	5	2*	28.5	23.1
4	7	2*	8.1	17.5
4	9	2*	27.5	24.5
4	11	2*	19.1	14.5
4	13	2*	22.5	13.2
4	15	2*	18.9	17.5
4	17	2*	35.3	18.3
4	1	3*	36.9	30.4
4	3	3	35.3	35.3
4	5	3	53.5	52.0
4	7	3	60.5	59.3
4	9	3*	21.3	4.3
4	11	3*	39.5	39.3
4	13	3*	23.5	22.5
4	15	3	54.5	51.4
4	17	3	56.6	46.5
4	1	4	111.7	118.3
4	3	4*	31.1	32.0
4	5	4*	25.8	32.5
4	7	4	115.7	114.9
4	9	4	47.0	48.8
4	11	4*	15.3	30.3
4	13	4	43.4	38.7
4	15	4	51.1	54.2
4	17	4*	35.5	40.5
4	1	5	76.5	75.2
4	3	5	72.5	70.4
4	5	5	136.5	135.1
4	7	5	49.3	50.0
4	9	5	80.3	83.5
4	11	5*	35.0	34.5
4	13	5	71.2	68.5
4	15	5*	46.2	51.3
4	1	6*	0.	8.4
4	3	6*	25.1	12.8
4	5	6*	0.	4.7
4	7	6*	7.5	2.3
4	9	6*	21.1	18.5
4	11	6	54.5	57.5
4	13	6*	0.	7.5
4	15	6*	8.1	14.9
4	1	7*	10.7	7.7
4	3	7	44.1	41.1
4	5	7*	39.2	26.4
4	7	7	41.7	38.2
4	9	7*	9.3	17.5
4	11	7*	30.8	13.5
4	13	7*	0.	5.2
4	1	8	43.8	44.5

H	K	L	/FO/	/FC/
4	3	8*	36.0	39.9
4	5	6*	39.0	36.0
4	7	8	70.5	77.8
4	9	8*	15.1	6.4
4	1	9*	30.0	31.2
4	3	9*	30.4	21.0
4	5	9*	35.9	37.7
4	7	9*	38.7	14.7
6	1	1	101.0	94.4
6	3	1	58.6	57.3
6	5	1	85.4	89.1
6	7	1	53.9	54.6
6	9	1	49.1	43.3
6	11	1	77.9	73.1
6	13	1	77.0	73.7
6	15	1*	11.7	14.7
6	17	1*	21.9	17.7
6	1	2*	22.0	6.5
6	3	2*	12.7	14.0
6	5	2	34.5	26.0
6	7	2	40.5	44.4
6	9	2*	36.0	2.2
6	11	2*	16.0	1.7
6	13	2*	7.3	0.6
6	15	2*	24.5	31.1
6	17	2*	2.6	20.2
6	1	3*	33.5	20.6
6	3	3	40.4	40.2
6	5	3	41.5	46.0
6	7	3	46.7	47.2
6	9	3*	10.6	18.7
6	11	3	48.8	42.3
6	13	3*	34.1	30.1
6	15	3*	23.5	10.9
6	17	3*	17.5	4.6
6	1	4*	34.5	29.2
6	3	4	74.3	73.9
6	5	4*	30.3	19.9
6	7	4*	31.5	26.0
6	9	4*	11.9	19.9
6	11	4	67.7	65.3
6	13	4*	20.4	28.2
6	15	4*	17.0	17.0
6	1	5	73.4	69.7
6	3	5	63.7	71.4
6	5	5	111.3	110.9
6	7	5	53.9	57.4
6	9	5	74.2	70.7
6	11	5*	33.1	31.4
6	13	5	76.6	77.0

H	K	L	/FO/	/FC/
6	15	5*	44.0	42.5
6	1	6*	26.2	36.8
6	3	6*	28.0	24.4
6	5	6*	14.4	9.0
6	7	6	63.7	53.5
6	9	6*	11.5	18.7
6	11	6*	13.1	23.1
6	13	6*	9.0	6.0
6	1	7*	10.7	10.9
6	3	7*	15.2	13.5
6	5	7*	30.1	8.1
6	7	7*	44.7	39.0
6	9	7*	9.4	16.6
6	11	7*	36.0	25.2
6	1	8*	15.6	9.3
6	3	8*	43.3	47.3
6	5	8*	26.7	14.0
6	7	8*	21.8	31.2
6	9	8*	10.6	12.0
6	1	9	51.8	50.7
6	3	9*	24.3	5.5
6	5	9*	33.4	37.5
6	1	1	102.6	105.1
6	3	1	43.9	44.5
6	5	1	44.3	36.2
6	7	1	100.0	109.0
6	9	1	80.7	55.7
6	11	1*	22.6	10.6
6	13	1	49.1	44.8
6	15	1	54.8	53.7
6	17	1*	37.5	40.5
6	1	2*	24.3	21.9
6	3	2	48.4	47.7
6	5	2*	16.8	17.3
6	7	2*	18.5	15.5
6	9	2*	7.2	5.2
6	11	2*	21.9	8.4
6	13	2*	31.1	23.0
6	15	2*	26.4	18.0
6	1	3	68.5	68.8
6	3	3*	23.2	16.0
6	5	3*	31.9	37.2
6	7	3	66.7	57.3
6	9	3*	17.5	4.3
6	11	3*	34.5	37.2
6	13	3*	6.0	6.3
6	15	3*	20.7	10.1
6	1	4	60.1	54.1
6	3	4	60.9	72.2
6	5	4*	5.9	7.2

H	K	L	/FO/	/FC/
6	7	4	50.5	58.2
6	9	4	55.7	56.5
6	11	4	49.2	57.4
6	13	4*	0.	12.4
6	15	4*	45.5	49.5
6	1	5	90.5	87.0
6	3	5	41.2	42.3
6	5	5	54.5	53.1
6	7	5	62.5	61.5
6	9	5	56.9	51.8
6	11	5	55.3	54.4
6	13	5	51.0	51.7
6	1	6*	9.5	4.8
6	3	6*	0.	6.4
6	5	6*	27.0	25.4
6	7	6*	21.1	29.5
6	9	6	54.0	58.5
6	11	6	40.7	45.7
6	1	7*	28.1	12.7
6	3	7	49.5	44.3
6	5	7*	0.	4.3
6	7	7*	11.2	10.8
6	9	7*	9.9	4.8
6	1	8	47.5	43.3
6	3	8*	33.2	42.2
6	5	8*	0.	0.5
6	7	8	54.9	58.9
10	1	1*	9.5	7.0
10	3	1	101.7	103.2
10	5	1	106.5	106.3
10	7	1*	13.5	24.9
10	9	1*	33.9	19.4
10	11	1*	39.8	30.3
10	13	1	50.0	54.4
10	15	1	62.0	53.9
10	1	2*	39.2	39.3
10	3	2*	24.4	2.5
10	5	2*	29.5	30.5
10	7	2*	22.7	19.5
10	9	2*	34.3	31.5
10	11	2*	30.9	21.7
10	13	2*	36.5	21.3
10	15	2*	0.	5.4
10	1	3*	0.	2.5
10	3	3	52.7	58.1
10	5	3*	24.2	29.7
10	7	3*	29.3	20.2
10	9	3*	0.	2.3
10	11	3*	21.5	23.1
10	13	3*	10.4	18.7

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
10	1	4*	12.8	6.5	12	3	5*	20.1	26.0	1	0	2*	18.9	11.1
10	3	4	55.3	53.5	12	5	5	63.3	62.1	1	2	2	93.4	35.2
10	5	4	50.3	51.4	12	7	5*	36.9	42.8	1	4	2	33.3	29.1
10	7	4	48.0	43.6	12	9	5	71.1	70.8	1	6	2	124.8	121.4
10	9	4*	22.7	23.8	12	1	6*	41.2	31.9	1	8	2*	0.	12.7
10	11	4*	22.4	34.1	12	3	6*	27.3	32.5	1	10	2*	30.0	24.5
10	13	4	51.2	44.3	12	5	6*	41.6	44.3	1	12	2*	15.7	24.5
10	1	5	57.1	57.2	12	7	6*	6.9	4.3	1	14	2	62.2	60.3
10	3	5	68.4	68.9	12	1	7*	1.6	8.3	1	16	2*	9.3	17.5
10	5	5	58.5	57.8	14	1	1*	9.4	15.0	1	18	2*	34.5	19.5
10	7	5*	28.5	26.1	14	3	1*	37.5	38.7	1	0	3	124.2	121.5
10	9	5	81.2	81.0	14	5	1	83.9	83.9	1	2	3	136.1	137.9
10	11	5*	38.2	37.2	14	7	1*	29.4	30.4	1	4	3	94.0	32.3
10	1	6*	23.1	25.6	14	9	1*	17.4	13.7	1	6	3	163.6	151.0
10	3	6*	17.7	21.7	14	11	1*	18.9	21.7	1	8	3	56.7	56.1
10	5	6*	28.3	21.3	14	1	2*	12.9	21.5	1	10	3	106.8	117.0
10	7	6*	43.4	49.1	14	3	2*	27.7	11.5	1	12	3	57.8	59.4
10	9	6*	22.5	23.1	14	5	2*	29.4	11.1	1	14	3	90.3	34.3
10	1	7*	0.	15.6	14	7	2*	5.3	21.1	1	16	3*	37.8	30.1
10	3	7*	11.9	8.3	14	9	2*	19.1	8.7	1	18	3	78.7	34.5
10	5	7*	22.3	20.7	14	1	3*	6.7	2.2	1	0	4*	26.1	19.1
10	7	7*	38.6	30.3	14	3	3*	38.0	24.2	1	2	4	99.3	112.1
10	1	8*	16.1	20.5	14	5	3	53.7	43.0	1	4	4	52.4	51.9
12	1	1	72.1	68.7	14	7	3*	42.2	36.9	1	6	4	75.0	75.9
12	3	1	58.1	63.1	14	9	3*	28.0	30.3	1	8	4*	17.0	19.5
12	5	1*	36.8	17.4	14	1	4*	2.9	4.0	1	10	4	77.0	73.5
12	7	1	48.8	48.3	14	3	4*	46.0	50.9	1	12	4*	20.5	0.3
12	9	1	30.6	39.3	14	5	4*	37.1	37.5	1	14	4*	21.7	8.2
12	11	1*	17.6	29.6	14	7	4*	23.2	21.7	1	16	4*	21.8	11.9
12	13	1*	0.	10.8	14	1	5*	34.4	31.5	1	0	5	73.5	72.8
12	1	2*	28.4	28.2	14	3	5	50.4	39.5	1	2	5*	0.	1.3
12	3	2	46.3	40.8	14	5	5	66.9	66.5	1	4	5*	34.5	27.4
12	5	2*	27.6	6.9	16	1	1	79.7	76.9	1	6	5*	17.3	14.1
12	7	2*	21.2	8.7	16	3	1*	27.1	21.3	1	8	5	68.4	70.8
12	9	2*	24.8	4.2	16	5	1*	15.5	9.8	1	10	5*	35.3	29.5
12	11	2*	24.4	2.1	16	1	2*	32.7	28.8	1	12	5	51.0	54.5
12	13	2*	21.4	8.2	16	3	2*	29.7	27.2	1	14	5*	35.4	22.0
12	1	3	47.3	51.9	16	5	2*	41.9	17.5	1	16	5*	35.5	35.1
12	3	3*	34.0	16.6	16	1	3*	45.9	43.3	1	0	6*	23.1	16.9
12	5	3*	6.4	4.5	16	3	3*	29.4	9.4	1	2	6	120.9	124.5
12	7	3*	33.0	30.7	1	0	1*	11.3	15.7	1	4	6*	35.1	32.5
12	9	3*	39.3	31.5	1	2	1	30.8	33.7	1	6	6	103.3	115.7
12	11	3	61.6	51.8	1	4	1	141.0	135.3	1	8	6*	3.1	10.7
12	1	4	60.3	63.7	1	6	1	97.8	93.5	1	10	6	75.2	71.5
12	3	4*	28.8	19.3	1	8	1*	30.6	34.7	1	12	6*	4.1	18.7
12	5	4*	11.7	7.5	1	10	1*	22.6	9.3	1	14	6	52.3	49.2
12	7	4	55.4	51.0	1	12	1	55.5	54.8	1	0	7	51.0	51.3
12	9	4*	55.3	46.5	1	14	1*	32.9	31.9	1	2	7	69.2	71.9
12	11	4*	6.5	34.4	1	16	1	56.5	52.0	1	4	7*	20.3	15.0
12	1	5	83.6	77.7	1	18	1*	31.2	16.7	1	6	7	80.0	36.5

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
1	8	7*	35.2	19.3	3	10	4	46.9	44.2	5	4	2	68.7	73.5
1	10	7	75.2	76.4	3	12	4	64.0	63.4	5	6	2*	25.9	18.0
1	12	7*	17.3	3.0	3	14	4*	12.1	4.5	5	8	2	43.1	44.8
1	0	0	35.1	85.1	3	16	4	50.2	78.0	5	10	2*	17.5	11.9
1	2	0	72.8	75.6	3	0	5	104.7	100.0	5	12	2	67.6	55.1
1	4	8	60.6	61.2	3	2	5	105.4	105.3	5	14	2*	19.2	12.5
1	6	0	59.1	58.3	3	4	5*	0.	18.6	5	16	2*	40.0	35.9
1	0	8*	39.4	31.0	3	6	5*	34.6	33.9	5	18	2*	0.	3.1
1	10	0*	15.9	22.8	3	8	5*	19.7	14.2	5	0	3	118.0	119.5
1	0	9	45.7	46.4	3	10	5	46.1	55.5	5	2	3	39.5	39.3
1	2	9*	0.	15.2	3	12	5*	35.7	26.9	5	4	3	218.2	218.0
1	4	9*	28.2	15.6	3	14	5*	0.	20.6	5	6	3	101.1	98.3
1	6	9*	28.2	11.8	3	16	5*	19.1	9.2	5	8	3	97.8	94.4
1	8	9*	37.1	33.6	3	0	6	92.2	94.9	5	10	3*	23.3	23.1
1	0	10	60.5	53.8	3	2	6	39.5	36.4	5	12	3	103.0	102.9
3	0	1	79.9	77.7	3	4	6	44.7	43.4	5	14	3	71.2	75.3
3	2	1	89.4	87.0	3	6	6*	6.5	2.6	5	16	3	77.1	76.5
3	4	1*	5.7	13.1	3	8	6	70.5	76.7	5	0	4	124.5	126.3
3	6	1	36.1	31.9	3	10	6*	30.9	35.0	5	2	4*	0.	9.1
3	8	1	64.6	63.1	3	12	6	72.7	71.4	5	4	4*	0.	4.4
3	10	1	75.9	77.4	3	14	6*	39.8	39.1	5	6	4*	4.1	0.3
3	12	1*	8.6	4.5	3	0	7	90.5	89.5	5	8	4*	60.7	32.7
3	14	1*	0.	10.0	3	2	7*	10.8	12.3	5	10	4*	0.	6.4
3	16	1*	27.6	30.3	3	4	7	131.5	131.8	5	12	4*	45.4	45.4
3	18	1*	44.7	32.3	3	6	7*	29.6	14.8	5	14	4*	40.9	39.5
3	0	2	82.1	82.9	3	8	7	79.0	82.7	5	16	4*	37.5	49.4
3	2	2	68.4	64.9	3	10	7*	0.	14.9	5	0	5	93.7	95.9
3	4	2	53.5	55.0	3	12	7*	38.7	42.5	5	2	5	96.1	97.5
3	6	2*	14.2	4.7	3	0	8	43.8	37.2	5	4	5*	0.	12.5
3	8	2	75.1	73.1	3	2	8*	29.4	5.7	5	6	5	94.6	93.2
3	10	2	41.9	47.9	3	4	8	54.6	47.4	5	8	5*	34.7	26.0
3	12	2	50.9	50.7	3	6	8*	35.8	26.0	5	10	5*	34.2	29.4
3	14	2*	16.5	9.4	3	8	8*	0.	21.1	5	12	5*	31.6	19.2
3	16	2*	33.9	37.0	3	10	8*	41.1	39.3	5	14	5	52.0	55.2
3	18	2*	0.	22.1	3	0	9	79.0	78.0	5	16	5*	28.0	9.5
3	0	3	184.8	184.1	3	2	9	78.7	68.3	5	0	6*	9.0	15.2
3	2	3	61.7	62.7	3	4	9*	10.9	19.5	5	2	6*	0.	4.3
3	4	3	133.0	132.7	3	6	9	64.4	57.2	5	4	6	115.6	114.5
3	6	3	44.3	39.7	5	0	1*	25.9	14.9	5	6	6	42.6	38.1
3	8	3	144.3	143.7	5	2	1	84.8	83.9	5	8	6*	39.3	43.9
3	10	3	69.1	71.8	5	4	1	79.6	80.2	5	10	6	45.3	44.8
3	12	3	69.1	65.9	5	6	1	112.8	110.3	5	12	6	75.0	32.3
3	14	3*	38.4	41.1	5	8	1*	0.	17.7	5	14	6*	7.7	17.3
3	16	3	59.3	67.5	5	10	1*	27.1	19.4	5	0	7	111.9	112.4
3	18	3	48.3	51.0	5	12	1	53.2	45.2	5	2	7*	16.3	11.9
3	0	4*	22.7	21.8	5	14	1	79.3	76.5	5	4	7	125.0	127.2
3	2	4*	2.7	13.5	5	16	1*	29.1	28.9	5	6	7	43.5	32.1
3	4	4	71.7	76.1	5	18	1*	0.	6.3	5	0	7	98.0	94.5
3	6	4	42.2	42.3	5	0	2	68.2	67.4	5	10	7*	13.0	26.9
3	8	4*	18.1	22.9	5	2	2*	30.0	34.4	5	12	7	58.6	54.7

H	K	L	/FC/	/FC/
5	0	0	51.1	55.7
5	2	8*	0.	4.6
5	4	8*	13.0	13.1
5	6	8	57.4	53.0
5	8	8	71.5	70.7
5	10	3*	0.	15.8
5	0	9*	0.	12.7
5	2	9	36.2	31.4
5	4	9	79.3	84.2
5	6	9*	47.0	48.5
7	0	1	135.1	138.4
7	2	1	40.5	38.6
7	4	1	41.3	36.8
7	6	1*	9.5	3.8
7	8	1	71.1	72.7
7	10	1	80.2	76.3
7	12	1*	8.1	19.8
7	14	1*	41.5	45.1
7	16	1*	28.4	27.5
7	0	2	75.9	74.0
7	2	2	69.1	66.4
7	4	2	40.0	39.2
7	6	2	40.1	29.0
7	8	2	50.9	54.3
7	10	2	70.4	68.7
7	12	2*	25.6	14.8
7	14	2*	20.5	7.4
7	16	2*	5.6	7.8
7	0	3	145.4	145.1
7	2	3	87.9	87.6
7	4	3*	23.3	14.5
7	6	3	91.9	88.9
7	8	3	85.5	81.9
7	10	3	93.0	94.5
7	12	3*	30.3	32.3
7	14	3*	37.6	44.5
7	16	3*	27.6	21.5
7	0	4	114.4	111.4
7	2	4	50.4	50.9
7	4	4	56.6	54.8
7	6	4	88.7	88.2
7	8	4	63.4	61.4
7	10	4*	27.6	2.7
7	12	4*	31.3	22.7
7	14	4*	47.2	42.5
7	16	4*	0.	18.4
7	0	5*	7.5	23.0
7	2	5*	28.4	3.9
7	4	5*	29.3	17.3
7	6	5*	21.8	1.5

H	K	L	/FC/	/FC/
7	8	5*	27.7	38.5
7	10	5*	25.9	24.7
7	12	5*	36.2	36.5
7	14	5*	39.2	18.9
7	0	6	49.1	43.3
7	2	6	104.3	102.5
7	4	6	53.5	55.0
7	6	6	51.2	48.5
7	8	6*	27.3	28.5
7	10	6	91.5	93.9
7	12	6*	34.3	8.0
7	0	7	47.2	46.4
7	2	7*	18.0	34.4
7	4	7*	37.8	27.5
7	6	7	89.8	83.6
7	8	7*	0.	10.3
7	10	7*	38.2	29.2
7	0	8	100.9	102.7
7	2	8	45.6	47.1
7	4	8*	30.7	11.5
7	6	8	51.9	50.5
7	8	8*	46.6	48.3
7	0	9*	15.4	0.9
7	2	9*	6.4	8.8
9	0	1	52.7	52.4
9	2	1*	35.2	35.2
9	4	1	158.3	150.7
9	6	1	84.5	85.2
9	8	1*	30.4	8.4
9	10	1*	10.1	21.5
9	12	1	54.6	56.7
9	14	1	76.4	72.9
9	16	1*	52.2	49.9
9	0	2*	30.9	35.5
9	2	2	57.0	49.4
9	4	2	44.9	39.1
9	6	2	97.7	98.3
9	8	2*	23.2	20.0
9	10	2*	24.2	3.4
9	12	2*	42.8	26.1
9	14	2	57.4	61.0
9	16	2*	12.9	13.3
9	0	3*	8.1	16.7
9	2	3	100.0	97.5
9	4	3	121.0	120.9
9	6	3	133.0	133.0
9	8	3*	28.1	15.7
9	10	3	69.6	67.9
9	12	3	45.1	51.5
9	14	3	99.0	104.3

H	K	L	/FC/	/FC/
9	0	4*	35.2	35.7
9	2	4	85.0	84.4
9	4	4	64.1	93.8
9	6	4*	35.8	29.8
9	8	4*	22.5	17.3
9	10	4	62.2	88.0
9	12	4*	36.4	22.5
9	14	4*	0.	18.2
9	0	5	43.5	42.0
9	2	5*	0.	3.0
9	4	5	50.1	50.1
9	6	5*	22.9	5.4
9	8	5	63.2	56.7
9	10	5*	29.3	24.1
9	12	5	50.4	49.7
9	0	6	77.2	74.7
9	2	6	67.1	85.9
9	4	6*	24.7	11.9
9	6	6	113.5	110.7
9	8	6*	36.7	43.5
9	10	6*	7.0	19.2
9	0	7*	21.0	35.1
9	2	7	64.3	72.0
9	4	7*	25.1	4.5
9	6	7*	42.7	52.3
9	8	7*	5.3	21.4
9	0	8*	38.3	38.5
9	2	8	76.5	72.3
9	4	8	84.1	85.5
11	0	1	73.6	76.3
11	2	1	45.3	44.5
11	4	1*	38.5	34.5
11	6	1*	24.3	9.1
11	8	1	60.6	51.5
11	10	1	57.5	58.4
11	12	1*	9.0	13.8
11	14	1*	17.7	14.4
11	0	2*	39.0	41.9
11	2	2*	36.0	37.8
11	4	2*	25.5	14.8
11	6	2*	14.3	4.1
11	8	2	52.5	51.2
11	10	2*	38.9	33.2
11	12	2*	11.8	18.3
11	14	2*	34.3	6.2
11	0	3	127.1	130.1
11	2	3	49.7	48.7
11	4	3*	34.3	37.5
11	6	3*	8.4	7.5
11	8	3	101.9	101.7

H	K	L	/FO/	/FC/
11	10	3	73.2	71.5
11	12	3*	14.8	27.5
11	0	4*	36.8	30.1
11	2	4*	19.5	3.2
11	4	4	57.5	59.1
11	6	4*	45.5	42.1
11	8	4*	18.3	12.3
11	10	4*	43.7	41.5
11	12	4*	41.8	46.7
11	0	5*	32.7	27.4
11	2	5	61.4	61.6
11	4	5*	31.5	25.6
11	6	5*	0.	3.9
11	6	5*	29.5	8.6
11	10	5*	43.6	46.2
11	0	6	100.1	96.6
11	2	6*	41.3	41.8
11	4	6*	8.6	22.2
11	6	6*	33.3	14.9
11	8	6	67.5	67.1
11	0	7	51.7	42.1
11	2	7*	8.8	4.5
11	4	7	89.9	88.6
11	6	7*	35.9	2.0
13	0	1*	11.3	28.4
13	2	1*	36.5	39.5
13	4	1	78.5	81.2
13	6	1	81.2	87.8
13	8	1*	0.	10.0
13	10	1*	33.8	8.4
13	12	1	52.5	47.6
13	0	2*	0.	3.4
13	2	2*	0.	6.6
13	4	2	64.1	65.7
13	6	2*	12.0	25.6
13	8	2*	0.	6.2
13	10	2*	0.	9.1
13	12	2	52.3	48.5
13	0	3	77.8	74.0
13	2	3*	17.5	15.0
13	4	3	123.6	124.4
13	6	3	70.9	69.1
13	8	3	56.6	49.1
13	10	3*	10.9	5.1
13	0	4	82.3	85.5
13	2	4*	3.2	2.4
13	4	4*	5.1	20.0
13	6	4*	33.1	20.1
13	8	4	64.3	63.1
13	10	4*	0.	7.1

H	K	L	/FO/	/FC/
13	0	5	47.3	37.4
13	2	5	58.3	63.1
13	4	5*	35.3	14.5
13	6	5	68.8	67.1
13	8	5*	0.	20.3
13	0	6*	0.	11.3
13	2	6*	8.0	2.0
13	4	6	65.4	86.6
15	0	1	75.0	75.5
15	2	1*	27.9	28.3
15	4	1*	27.7	26.3
15	6	1*	0.	3.3
15	8	1*	48.6	49.2
15	0	2	53.5	49.2
15	2	2*	44.9	38.2
15	4	2*	27.1	27.3
15	6	2*	16.5	8.9
15	8	2*	47.3	37.9
15	0	3	73.6	70.6
15	2	3*	35.9	42.7
15	4	3*	27.0	18.2
15	6	3*	40.0	35.7
15	0	4	63.7	59.8
15	2	4*	19.4	18.3
15	4	4*	22.3	35.1
17	0	1*	11.9	12.5
1	1	0*	5.9	2.3
1	3	0	69.4	70.4
1	5	0	182.2	187.1
1	7	0	107.3	108.5
1	9	0	126.2	130.3
1	11	0	157.5	153.3
1	13	0	120.0	111.9
1	15	0*	27.3	30.7
1	17	0*	45.7	47.4
1	19	0*	32.5	28.3
1	1	1	55.2	55.5
1	3	1	146.8	143.7
1	5	1	78.0	75.1
1	7	1	176.2	174.0
1	9	1	57.0	55.9
1	11	1	159.5	157.3
1	13	1	43.1	42.8
1	15	1	88.5	82.4
1	17	1*	0.	6.6
1	19	1*	45.5	33.8
1	1	2	251.0	245.9
1	3	2	87.3	84.1
1	5	2	256.5	253.8
1	7	2*	15.5	7.3

H	K	L	/FO/	/FC/
1	9	2	271.5	271.0
1	11	2*	1.7	5.3
1	13	2	194.0	194.6
1	15	2*	11.4	6.3
1	17	2	104.2	117.3
1	19	2	59.3	54.5
1	1	3	42.2	44.5
1	3	3	151.3	146.7
1	5	3	40.7	49.1
1	7	3	122.0	121.7
1	9	3	92.9	90.6
1	11	3	115.2	111.3
1	13	3	54.1	51.3
1	15	3	66.7	75.3
1	17	3*	0.	5.2
1	1	4	29.7	22.4
1	3	4	62.6	50.9
1	5	4	72.8	71.6
1	7	4	117.7	120.4
1	9	4	124.3	125.6
1	11	4	114.6	110.9
1	13	4	73.6	71.6
1	15	4	55.2	58.2
1	17	4*	35.0	32.9
1	1	5*	21.8	24.7
1	3	5	76.9	75.6
1	5	5	46.1	39.7
1	7	5	131.9	133.3
1	9	5	63.4	59.8
1	11	5	111.4	109.6
1	13	5*	38.4	39.7
1	15	5	60.3	60.3
1	1	6	93.2	93.3
1	3	6*	0.3	22.0
1	5	6	147.8	151.6
1	7	6*	0.	14.2
1	9	6	106.8	111.0
1	11	6*	30.1	36.0
1	13	6	118.6	121.2
1	15	6*	33.6	16.9
1	1	7*	16.3	24.9
1	3	7*	0.	2.5
1	5	7	84.6	86.8
1	7	7	54.9	45.0
1	9	7	92.2	98.4
1	11	7	60.4	56.6
1	13	7	72.7	74.4
1	1	8*	34.0	25.2
1	3	8	59.0	57.3
1	5	9*	19.0	30.8

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
1	7	8	97.5	100.4	3	11	4	67.9	91.4	5	9	1	74.5	75.8
1	9	8*	43.1	45.8	3	13	4	62.4	57.3	5	11	1	167.7	156.2
1	11	8	76.9	81.2	3	15	4	67.8	56.5	5	13	1	66.2	62.0
1	1	9*	17.4	16.6	3	17	4*	30.8	23.1	5	15	1	95.7	94.4
1	3	9	46.9	48.7	3	1	5*	10.7	1.3	5	17	1*	0.	1.9
1	5	9*	43.7	37.6	3	3	5	80.6	82.1	5	1	2	216.4	209.3
1	7	9	55.4	54.6	3	5	5*	29.0	32.1	5	3	2	51.3	51.2
3	1	0*	28.0	30.2	3	7	5	137.0	135.8	5	5	2	189.4	157.8
3	3	0	70.2	67.9	3	9	5	87.8	89.5	5	7	2	38.3	31.4
3	5	0	119.1	117.3	3	11	5	97.0	97.5	5	9	2	231.5	232.1
3	7	0	155.4	152.9	3	13	5*	47.2	47.6	5	11	2*	3.7	4.5
3	9	0	135.4	130.6	3	15	5	80.4	83.9	5	13	2	163.1	153.0
3	11	0	65.8	60.1	3	1	6	70.0	70.9	5	15	2*	21.8	24.2
3	13	0	64.6	64.0	3	3	6*	29.5	34.7	5	17	2	75.3	66.8
3	15	0	80.8	76.3	3	5	6	124.1	128.9	5	1	3*	9.2	1.0
3	17	0	56.0	44.7	3	7	6	55.8	51.1	5	3	3	97.2	96.7
3	19	0*	24.4	17.7	3	9	6	140.4	141.5	5	5	3	83.5	63.1
3	1	1*	30.3	30.9	3	11	6*	6.9	5.5	5	7	3	125.1	123.8
3	3	1	133.9	131.0	3	13	6	78.4	84.5	5	9	3	94.0	91.3
3	5	1	57.7	56.9	3	15	6*	27.7	10.9	5	11	3	122.9	121.3
3	7	1	203.0	200.5	3	1	7*	10.9	14.5	5	13	3	62.1	63.5
3	9	1	65.1	68.6	3	3	7*	7.9	2.0	5	15	3	67.4	73.5
3	11	1	145.0	146.0	3	5	7	90.4	89.3	5	17	3*	12.2	25.0
3	13	1	56.9	54.9	3	7	7	48.9	56.4	5	1	4*	5.9	3.1
3	15	1	119.4	115.1	3	9	7	89.9	91.3	5	3	4	69.3	70.4
3	17	1*	32.9	6.9	3	11	7	60.5	68.7	5	5	4	107.2	107.5
3	19	1*	45.4	33.2	3	13	7	60.2	74.7	5	7	4	65.5	63.3
3	1	2	167.3	167.8	3	1	8*	10.4	14.3	5	9	4	62.5	51.3
3	3	2	160.5	157.6	3	3	8	63.3	64.9	5	11	4	117.5	118.2
3	5	2	266.2	262.5	3	5	8*	34.5	37.8	5	13	4	74.2	77.1
3	7	2*	15.5	5.4	3	7	8	79.5	79.7	5	15	4*	36.4	20.2
3	9	2	250.3	247.7	3	9	8*	22.1	16.5	5	17	4*	25.4	18.3
3	11	2*	31.5	5.0	3	11	8	75.8	82.3	5	1	5*	23.2	21.7
3	13	2	173.6	174.9	3	1	9*	23.5	8.5	5	3	5	98.2	97.4
3	15	2	53.5	52.8	3	3	9*	41.5	24.1	5	5	5	51.4	51.4
3	17	2	96.0	91.9	3	5	9	47.3	34.8	5	7	5	98.1	98.5
3	1	3	52.9	50.2	3	7	9	67.6	70.3	5	9	5	54.1	50.2
3	3	3	74.6	74.4	5	1	0	49.5	51.1	5	11	5	144.0	145.4
3	5	3	111.2	113.0	5	3	0	72.2	71.0	5	13	5	62.1	60.9
3	7	3	163.2	168.2	5	5	0	102.6	104.4	5	15	5	45.8	46.2
3	9	3	30.5	77.7	5	7	0	82.2	80.3	5	1	6	88.5	89.4
3	11	3	117.8	120.5	5	9	0	119.0	118.4	5	3	6*	13.5	9.5
3	13	3	57.5	53.1	5	11	0	110.4	111.3	5	5	6	102.4	103.9
3	15	3	80.4	74.8	5	13	0	81.2	79.9	5	7	6*	32.5	27.5
3	17	3*	38.9	39.4	5	15	0*	20.6	16.2	5	9	6	119.7	125.9
3	1	4*	8.3	8.0	5	17	0*	35.5	32.1	5	11	6*	13.8	19.3
3	3	4	78.8	72.9	5	1	1*	23.9	17.3	5	13	6	60.0	62.7
3	5	4	84.9	81.8	5	3	1	191.3	184.8	5	1	7	68.1	64.0
3	7	4	101.6	104.4	5	5	1	39.6	37.8	5	3	7*	6.3	19.3
3	9	4	85.9	82.2	5	7	1	145.4	145.3	5	5	7	49.6	47.7

H	K	L	/FO/	/FC/
5	7	7	47.7	47.1
5	9	7	123.3	124.2
5	11	7*	29.3	43.9
5	1	8*	20.7	7.8
5	3	8	81.3	80.6
5	5	8*	5.6	13.9
5	7	8	68.4	73.0
5	9	8*	40.3	39.6
5	1	9*	0.	4.6
5	3	9*	42.9	30.2
5	5	9	55.2	49.0
7	1	0*	29.7	28.8
7	3	0	52.1	56.1
7	5	0	56.9	59.3
7	7	0	149.2	148.0
7	9	0	144.9	147.7
7	11	0	65.6	69.9
7	13	0	54.0	55.3
7	15	0	81.3	82.6
7	17	0	45.9	36.2
7	1	1	35.8	34.3
7	3	1	81.6	78.7
7	5	1*	31.2	32.9
7	7	1	171.4	172.1
7	9	1	76.4	76.9
7	11	1	99.9	99.1
7	13	1*	36.1	27.9
7	15	1	100.1	95.9
7	17	1*	0.	4.4
7	1	2	130.0	129.5
7	3	2	100.4	98.8
7	5	2	251.2	250.2
7	7	2*	17.2	1.7
7	9	2	190.9	191.6
7	11	2*	15.0	0.9
7	13	2	175.3	172.1
7	15	2*	41.0	25.3
7	17	2	109.6	105.6
7	1	3	41.6	38.3
7	3	3	79.8	75.2
7	5	3	96.1	96.6
7	7	3	112.8	113.3
7	9	3*	38.6	40.3
7	11	3	114.5	114.3
7	13	3	52.3	50.8
7	15	3	45.6	45.5
7	1	4*	22.7	21.6
7	3	4*	23.5	25.9
7	5	4	56.2	57.3
7	7	4	128.7	129.1

H	K	L	/FO/	/FC/
7	9	4	102.8	102.4
7	11	4	88.8	87.9
7	13	4	45.2	47.0
7	15	4	59.5	60.6
7	1	5*	22.5	2.5
7	3	5	54.1	51.7
7	5	5*	40.5	23.8
7	7	5	133.0	131.5
7	9	5	86.6	84.3
7	11	5	54.2	55.5
7	13	5*	30.5	25.5
7	1	6	83.8	85.5
7	3	6*	0.	7.9
7	5	6	124.5	122.3
7	7	6*	10.8	20.7
7	9	6	100.5	106.0
7	11	6*	14.9	11.2
7	13	6	98.4	103.4
7	1	7*	0.	3.0
7	3	7*	8.8	4.9
7	5	7	77.9	78.2
7	7	7	50.2	50.8
7	9	7	78.6	76.5
7	11	7	66.0	66.2
7	1	8*	39.9	35.8
7	3	8	48.0	43.3
7	5	8*	14.4	28.5
7	7	8	91.2	100.1
7	1	9*	7.0	21.9
7	3	9*	31.1	34.3
9	1	0*	14.8	5.4
9	3	0	62.7	64.2
9	5	0	124.7	127.4
9	7	0	47.7	52.2
9	9	0	79.5	75.9
9	11	0	139.2	142.5
9	13	0	98.1	97.2
9	15	0*	28.9	11.0
9	1	1*	11.0	24.5
9	3	1	108.2	108.4
9	5	1	49.8	47.2
9	7	1	107.0	108.9
9	9	1	41.4	38.0
9	11	1	123.3	124.2
9	13	1*	39.0	34.3
9	15	1	50.8	53.5
9	1	2	152.3	152.6
9	3	2	45.4	44.3
9	5	2	143.7	140.7
9	7	2*	29.1	13.2

H	K	L	/FO/	/FC/
9	9	2	210.5	211.9
9	11	2*	13.4	3.4
9	13	2	139.7	138.5
9	15	2*	12.9	9.0
9	1	3*	39.5	38.5
9	3	3	85.0	89.5
9	5	3*	24.6	27.1
9	7	3	63.5	65.2
9	9	3	77.2	80.0
9	11	3	75.3	75.4
9	13	3*	39.1	47.2
9	15	3	67.2	64.5
9	1	4*	18.4	18.4
9	3	4	70.5	67.9
9	5	4	76.5	74.9
9	7	4	70.5	71.1
9	9	4	73.9	71.2
9	11	4	97.0	94.1
9	13	4	72.5	68.5
9	1	5*	31.4	32.3
9	3	5	62.5	60.5
9	5	5	43.6	37.3
9	7	5	86.1	89.1
9	9	5*	33.3	39.5
9	11	5	106.0	113.3
9	13	5*	34.3	33.3
9	1	6	69.1	63.5
9	3	6*	9.2	14.0
9	5	6	104.4	102.4
9	7	6*	26.5	15.9
9	9	6	95.5	94.7
9	11	6*	38.0	40.2
9	1	7	47.5	43.4
9	3	7*	38.7	13.2
9	5	7	64.4	58.7
9	7	7*	34.5	30.3
9	9	7	69.9	67.8
9	1	8*	1.5	6.2
9	3	8	54.4	53.0
9	5	8*	26.5	18.2
11	1	0*	19.2	1.7
11	3	0	48.2	47.0
11	5	0	66.4	74.0
11	7	0	52.9	103.1
11	9	0	64.2	67.4
11	11	0*	42.5	54.5
11	13	0	54.1	49.1
11	15	0	55.9	62.2
11	1	1*	38.0	23.2
11	3	1	68.2	72.2

H	K	L	/FO/	/FC/
11	5	1*	40.8	43.8
11	7	1	112.7	116.1
11	9	1	54.7	53.1
11	11	1	103.3	101.5
11	13	1	46.3	46.3
11	1	2	102.0	102.6
11	3	2	65.4	66.7
11	5	2	156.4	159.3
11	7	2*	9.7	10.2
11	9	2	164.0	162.4
11	11	2*	0.	10.1
11	13	2	122.6	119.0
11	1	3*	15.7	10.2
11	3	3	57.1	59.8
11	5	3	53.4	52.4
11	7	3	94.3	100.9
11	9	3	67.7	64.2
11	11	3	87.2	84.8
11	13	3*	0.	28.4
11	1	4*	0.	14.1
11	3	4	61.0	59.9
11	5	4*	20.8	20.8
11	7	4	83.0	81.2
11	9	4	58.0	65.6
11	11	4	60.4	62.3
11	1	5*	0.	10.2
11	3	5	59.2	55.7
11	5	5*	10.2	22.6
11	7	5	93.8	94.2
11	9	5	71.3	63.3
11	11	5	52.4	55.7
11	1	6	45.0	39.9

H	K	L	/FO/	/FC/
11	3	6*	34.8	29.2
11	5	6	100.9	99.7
11	7	6*	44.6	34.3
11	9	6	90.8	95.2
11	1	7*	0.	5.1
11	3	7*	35.4	3.2
11	5	7	73.4	75.2
13	1	0*	24.6	7.4
13	3	0*	27.7	21.3
13	5	0	60.8	57.2
13	7	0	53.6	63.6
13	9	0	77.2	73.1
13	11	0	77.3	62.9
13	1	1*	12.1	11.0
13	3	1	79.6	78.8
13	5	1	44.1	39.7
13	7	1	93.1	96.0
13	9	1*	33.4	46.0
13	11	1	100.4	94.9
13	1	2	101.4	97.7
13	3	2*	34.3	30.9
13	5	2	112.8	115.6
13	7	2*	15.0	2.3
13	9	2	118.0	124.2
13	11	2*	2.5	13.0
13	1	3*	23.6	0.5
13	3	3	46.5	37.7
13	5	3	46.4	46.0
13	7	3	87.6	87.3
13	9	3	71.3	67.1
13	11	3	55.7	63.7
13	1	4*	26.5	0.9

H	K	L	/FO/	/FC/
13	3	4	43.9	37.3
13	5	4	49.3	49.1
13	7	4	63.4	59.4
13	9	4	53.1	54.4
13	1	5*	20.5	11.9
13	3	5	68.1	59.2
13	5	5*	34.2	22.9
13	7	5	73.0	59.7
13	1	5*	40.9	48.3
13	3	5*	10.5	6.5
15	1	0*	26.5	9.4
15	3	0*	26.0	48.5
15	5	0	59.5	38.7
15	7	0	79.4	73.9
15	9	0	55.5	53.7
15	1	1*	10.5	4.5
15	3	1	58.4	52.6
15	5	1*	9.0	20.4
15	7	1	77.9	79.2
15	9	1*	46.9	46.3
15	1	2	84.2	83.3
15	3	2*	35.9	23.4
15	5	2	106.6	117.2
15	7	2*	11.0	10.3
15	1	3*	8.5	0.7
15	3	3	53.1	59.8
15	5	3	50.2	42.2
15	7	3*	44.4	46.4
15	1	4*	38.3	13.5
15	3	4*	19.5	29.3
15	5	4*	37.3	37.7
17	1	3*	14.9	16.3