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Crystal structure and chemistry of $MnSiO_3$ tetragonal garnet

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Table 4 for deposit

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Table 4. Observed and calculated structure amplitudes of MnSiO₃ tetragonal garnet.

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
4	0	0	524.35	506.97	16	8	0	277.49	272.75	5	0	1	47.56	45.38	4	7	1	80.07	79.24
8	0	0	578.83	579.63	2	10	0	108.80	112.93	7	0	1	19.80	25.71	10	7	1	66.91	66.63
10	0	0	34.76	30.78	4	10	0	241.18	244.22	11	0	1	44.70	43.55	18	7	1	49.41	44.55
12	0	0	155.62	149.98	6	10	0	58.41	54.79	13	0	1	44.25	44.42	3	8	1	45.72	43.46
14	0	0	44.16	47.36	8	10	0	41.11	39.52	4	1	1	22.49	22.46	5	8	1	40.40	40.01
16	0	0	265.18	264.01	10	10	0	62.28	58.01	6	1	1	240.91	240.39	7	8	1	56.12	54.69
20	0	0	77.14	68.33	12	10	0	178.27	177.74	10	1	1	37.81	40.27	11	8	1	41.13	39.81
4	2	0	492.27	478.21	14	10	0	147.41	151.49	12	1	1	42.37	46.28	17	8	1	43.62	39.00
6	2	0	140.34	142.08	16	10	0	69.03	65.85	16	1	1	46.03	38.40	2	9	1	49.02	47.55
8	2	0	61.93	64.57	2	12	0	168.01	158.76	1	2	1	80.61	85.28	4	9	1	80.21	82.63
10	2	0	47.22	47.87	4	12	0	82.96	76.55	3	2	1	53.15	51.58	6	9	1	56.27	62.88
12	2	0	348.35	346.10	6	12	0	253.45	254.03	5	2	1	248.02	248.07	8	9	1	45.15	45.21
14	2	0	68.58	66.07	8	12	0	234.47	236.28	9	2	1	77.50	70.36	14	9	1	72.83	68.00
16	2	0	57.33	66.55	10	12	0	121.45	118.80	15	2	1	47.50	47.31	5	10	1	74.26	76.77
18	2	0	60.30	62.29	12	12	0	46.94	50.03	17	2	1	60.09	53.88	7	10	1	51.21	44.74
20	2	0	165.45	166.29	14	12	0	184.71	186.56	2	3	1	62.98	65.00	9	10	1	65.23	67.56
2	4	0	381.79	369.34	16	12	0	143.34	138.66	4	3	1	193.61	193.67	2	11	1	103.22	111.84
4	4	0	88.46	90.62	2	14	0	37.86	33.85	6	3	1	32.90	29.87	4	11	1	26.02	22.07
6	4	0	488.06	487.03	4	14	0	132.84	130.88	8	3	1	21.95	26.55	1	12	1	36.95	37.97
8	4	0	300.70	301.09	6	14	0	85.91	82.70	10	3	1	91.17	93.41	6	13	1	64.37	62.10
10	4	0	235.85	241.49	10	14	0	65.23	60.23	12	3	1	39.59	44.88	10	13	1	44.14	47.48
14	4	0	160.14	153.70	12	14	0	98.99	89.87	18	3	1	60.82	61.25	14	13	1	48.88	49.20
16	4	0	249.65	249.96	16	14	0	42.32	39.22	3	4	1	44.23	50.05	3	14	1	57.47	49.09
2	6	0	55.09	51.85	2	16	0	55.49	63.86	5	4	1	49.21	41.94	7	14	1	57.16	56.44
4	6	0	336.76	339.83	4	16	0	189.43	189.20	7	4	1	26.52	24.51	15	14	1	46.67	49.67
8	6	0	47.76	47.19	6	16	0	28.08	27.51	11	4	1	45.26	47.27	10	15	1	32.23	38.62
10	6	0	115.59	122.34	8	16	0	234.95	236.55	2	5	1	59.09	63.37	12	15	1	41.10	40.71
12	6	0	108.10	112.09	10	16	0	45.62	46.46	4	5	1	85.79	86.61	1	16	1	37.13	30.23
14	6	0	33.70	30.07	12	16	0	145.95	152.18	6	5	1	68.07	66.83	7	16	1	47.92	41.38
16	6	0	67.67	61.39	14	16	0	89.92	86.56	8	5	1	49.06	51.88	6	17	1	63.01	54.19
18	6	0	105.95	99.36	2	18	0	48.24	52.27	10	5	1	38.51	37.08	1	18	1	61.85	66.00
20	6	0	77.31	75.64	4	18	0	127.50	130.00	1	6	1	173.97	179.21	4	19	1	33.73	26.29
2	8	0	131.94	133.66	6	18	0	71.34	86.05	3	6	1	51.03	48.68	2	0	2	35.23	32.84
4	8	0	374.29	372.81	8	18	0	63.96	67.75	5	6	1	55.39	54.17	4	0	2	419.64	411.36
6	8	0	95.33	93.39	2	20	0	81.58	88.62	9	6	1	37.04	41.47	6	0	2	115.69	118.06
8	8	0	517.35	519.13	4	20	0	65.28	66.90	11	6	1	53.64	55.53	8	0	2	64.14	61.00
12	8	0	119.33	119.48	6	20	0	135.44	143.71	15	6	1	76.32	64.55	12	0	2	216.99	212.90
14	8	0	52.12	56.96	1	0	1	24.81	20.32	2	7	1	113.25	111.34	18	0	2	58.19	47.23

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
20	0	2	74.04	78.13	8	6	2	111.26	111.26	12	14	2	134.51	139.33	1	4	3	48.36	50.35
1	1	2	50.74	58.86	10	6	2	25.95	25.54	14	14	2	96.61	106.61	3	4	3	89.51	87.87
5	1	2	152.14	158.06	12	6	2	239.98	241.16	3	15	2	47.59	60.70	5	4	3	46.11	43.69
7	1	2	43.24	37.98	14	6	2	111.84	105.66	2	16	2	43.35	45.62	7	4	3	61.85	64.01
9	1	2	45.86	34.66	16	6	2	88.51	87.83	4	16	2	113.71	110.51	9	4	3	52.57	49.70
11	1	2	48.01	47.62	20	6	2	132.26	132.14	6	16	2	88.75	100.36	2	5	3	83.01	81.33
15	1	2	61.20	65.16	1	7	2	82.54	80.37	8	16	2	65.98	69.83	6	5	3	27.36	31.98
2	2	2	87.01	86.16	3	7	2	31.45	33.84	10	16	2	73.03	64.58	3	6	3	119.91	119.69
4	2	2	310.42	298.44	7	7	2	84.93	82.92	12	16	2	70.88	81.04	5	6	3	56.05	63.62
6	2	2	39.28	29.66	11	7	2	108.76	108.80	9	17	2	43.72	36.75	7	6	3	37.81	30.00
8	2	2	58.54	63.09	15	7	2	56.08	58.03	2	18	2	82.54	78.10	9	6	3	48.00	48.03
10	2	2	96.77	92.56	2	8	2	140.87	144.47	4	18	2	105.72	102.34	11	6	3	73.11	75.65
12	2	2	168.64	162.86	4	8	2	315.22	314.99	6	18	2	41.66	41.73	15	6	3	65.38	58.43
14	2	2	62.28	55.32	6	8	2	104.25	105.64	10	18	2	94.90	88.66	19	6	3	40.57	41.52
16	2	2	65.15	59.28	10	8	2	84.55	95.23	9	19	2	46.78	42.62	6	7	3	40.61	33.22
18	2	2	99.35	105.35	12	8	2	125.40	128.78	2	20	2	183.06	190.72	8	7	3	53.82	36.10
20	2	2	70.24	74.65	1	9	2	24.93	21.66	4	20	2	58.56	52.07	10	7	3	78.05	66.70
1	3	2	93.68	101.06	3	9	2	66.35	71.64	6	20	2	88.73	97.00	1	8	3	41.48	40.23
3	3	2	85.55	84.55	2	10	2	65.41	72.84	11	0	3	24.60	28.87	3	8	3	30.37	27.66
5	3	2	179.26	178.46	4	10	2	156.90	153.83	13	0	3	41.48	40.90	5	8	3	119.87	122.78
9	3	2	81.39	74.06	10	10	2	137.11	144.08	17	0	3	74.83	71.82	9	8	3	43.77	50.05
13	3	2	30.52	26.35	12	10	2	85.46	83.54	2	1	3	35.33	35.97	2	9	3	67.38	77.93
19	3	2	35.12	27.71	18	10	2	72.33	78.36	4	1	3	182.83	186.97	4	9	3	53.58	53.03
2	4	2	334.42	320.70	1	11	2	41.40	41.98	6	1	3	57.22	58.48	6	9	3	47.17	46.46
4	4	2	22.79	21.67	9	11	2	51.30	56.85	1	2	3	62.61	75.04	8	9	3	48.34	43.37
6	4	2	301.11	297.40	17	11	2	34.95	36.89	3	2	3	119.65	121.37	14	9	3	53.25	48.79
8	4	2	257.10	256.01	2	12	2	386.76	385.31	5	2	3	216.86	220.36	1	10	3	39.48	42.45
10	4	2	356.81	354.56	6	12	2	105.57	104.04	7	2	3	25.25	22.68	5	10	3	61.01	57.51
12	4	2	50.18	46.02	8	12	2	156.07	160.21	9	2	3	57.66	54.25	9	10	3	54.73	55.14
14	4	2	149.05	154.37	10	12	2	237.61	234.46	13	2	3	71.50	64.92	15	10	3	48.22	51.61
16	4	2	129.99	125.89	14	12	2	69.77	74.04	15	2	3	43.49	46.60	2	11	3	65.77	61.90
18	4	2	116.59	111.61	16	12	2	66.99	65.52	17	2	3	46.81	50.13	4	11	3	32.01	31.00
1	5	2	140.49	147.89	3	13	2	49.34	57.07	19	2	3	33.26	29.49	6	11	3	50.65	50.13
3	5	2	129.21	136.06	7	13	2	42.32	45.74	2	3	3	58.84	58.43	12	11	3	36.03	39.26
5	5	2	86.96	90.27	2	14	2	88.61	78.86	4	3	3	74.42	77.71	15	12	3	35.86	31.02
2	6	2	62.29	61.21	4	14	2	191.75	189.33	6	3	3	30.08	35.32	2	13	3	37.30	35.29
4	6	2	465.80	463.61	6	14	2	113.32	116.97	10	3	3	92.62	92.29	6	13	3	50.46	47.76
6	6	2	116.39	114.26	8	14	2	84.77	77.41	16	3	3	28.90	21.14	8	13	3	52.41	51.52

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
14	13	3	36.51	43.60	5	3	4	103.89	102.56	18	8	4	79.29	87.81	10	18	4	95.57	98.93
1	14	3	55.96	53.14	7	3	4	22.16	23.40	9	9	4	63.60	67.77	3	19	4	38.99	41.72
3	14	3	33.82	39.12	9	3	4	78.79	78.22	2	10	4	213.14	215.99	4	20	4	41.28	46.42
5	14	3	64.78	59.12	11	3	4	43.52	42.92	6	10	4	290.89	292.93	6	20	4	73.76	69.94
7	14	3	55.81	49.61	2	4	4	103.01	103.01	8	10	4	126.24	126.09	1	0	5	105.06	109.73
11	14	3	45.87	50.60	4	4	4	402.47	403.12	10	10	4	176.40	178.01	3	0	5	32.18	32.43
6	15	3	29.00	21.54	8	4	4	51.61	52.79	14	10	4	248.16	251.13	5	0	5	24.07	23.86
12	15	3	47.30	44.93	10	4	4	65.21	51.25	16	10	4	61.99	64.75	7	0	5	26.54	22.43
6	17	3	49.63	55.41	12	4	4	131.01	134.87	18	10	4	115.06	121.04	9	0	5	34.74	31.00
1	18	3	47.50	44.15	16	4	4	58.56	59.68	1	11	4	72.07	68.52	15	0	5	35.12	33.06
2	19	3	54.50	55.93	18	4	4	51.78	47.28	3	11	4	74.21	71.68	2	1	5	57.28	63.84
0	0	4	515.67	509.68	20	4	4	74.98	84.91	2	12	4	70.94	76.63	4	1	5	27.18	23.71
2	0	4	423.78	414.38	3	5	4	101.94	104.76	4	12	4	162.51	159.76	6	1	5	95.62	95.94
4	0	4	65.84	72.14	5	5	4	32.33	34.89	6	12	4	71.92	67.70	8	1	5	21.96	24.64
6	0	4	379.80	384.22	7	5	4	35.89	36.04	8	12	4	33.43	31.27	10	1	5	24.28	30.04
8	0	4	296.97	303.77	9	5	4	51.97	44.54	10	12	4	74.14	66.25	12	1	5	32.42	27.69
10	0	4	240.39	238.16	13	5	4	54.37	61.33	12	12	4	122.64	121.63	16	1	5	35.00	25.29
14	0	4	131.63	137.00	17	5	4	52.21	38.92	14	12	4	45.07	36.76	1	2	5	249.47	254.47
16	0	4	120.94	123.39	2	6	4	336.75	333.93	1	13	4	52.17	33.71	3	2	5	126.57	130.58
18	0	4	94.56	93.01	4	6	4	33.43	32.35	3	13	4	50.46	43.37	5	2	5	136.81	133.36
20	0	4	38.16	48.90	6	6	4	306.63	308.45	5	13	4	40.64	42.46	9	2	5	90.60	86.83
1	1	4	72.65	69.27	8	6	4	269.88	272.98	11	13	4	47.16	41.60	11	2	5	30.24	31.24
3	1	4	89.70	95.70	10	6	4	139.76	136.50	15	13	4	36.01	38.38	2	3	5	168.77	171.74
7	1	4	160.16	159.95	12	6	4	93.95	90.86	2	14	4	137.59	141.73	8	3	5	73.36	76.22
9	1	4	90.28	96.43	14	6	4	144.97	147.24	4	14	4	69.45	71.59	10	3	5	54.13	55.79
13	1	4	56.56	58.23	16	6	4	214.38	215.46	6	14	4	201.74	203.86	18	3	5	53.84	50.39
2	2	4	310.15	299.26	20	6	4	62.26	52.59	8	14	4	162.15	163.05	20	3	5	42.27	32.80
4	2	4	55.25	54.53	1	7	4	68.29	73.73	12	14	4	47.46	42.98	1	4	5	64.26	61.69
6	2	4	502.40	505.69	3	7	4	22.76	24.01	14	14	4	101.43	106.77	3	4	5	37.06	37.98
8	2	4	201.04	204.74	5	7	4	57.49	57.74	3	15	4	54.06	55.35	5	4	5	53.98	50.67
10	2	4	344.90	346.05	9	7	4	48.92	45.61	2	16	4	214.31	215.69	2	5	5	48.67	51.98
12	2	4	79.53	80.86	2	8	4	406.14	413.77	4	16	4	46.85	35.53	4	5	5	53.65	49.61
14	2	4	290.04	289.73	4	8	4	43.01	46.49	6	16	4	86.48	75.77	6	5	5	27.20	27.93
16	2	4	118.20	111.16	6	8	4	203.02	200.01	8	16	4	91.59	84.00	10	5	5	46.15	46.37
18	2	4	174.56	175.90	8	8	4	214.21	211.45	10	16	4	158.80	160.74	14	5	5	63.66	64.16
20	2	4	54.74	40.08	10	8	4	267.54	270.20	2	18	4	84.98	79.85	3	6	5	22.91	25.63
1	3	4	130.66	133.88	14	8	4	87.58	88.18	6	18	4	195.59	203.69	5	6	5	99.76	101.36
3	3	4	78.61	75.36	16	8	4	110.73	106.20	8	18	4	90.12	78.33	7	6	5	95.80	96.50

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
11	6	5	52.60	51.23	1	1	6	207.31	212.45	6	6	6	81.76	83.36	14	12	6	69.69	65.88
15	6	5	32.77	36.41	3	1	6	65.13	70.60	8	6	6	42.35	42.25	16	12	6	52.33	60.48
2	7	5	56.32	55.41	5	1	6	45.20	40.11	12	6	6	221.25	224.77	1	13	6	52.88	51.07
4	7	5	87.47	85.72	7	1	6	37.48	43.01	14	6	6	99.17	91.39	9	13	6	98.30	85.64
6	7	5	50.61	53.42	9	1	6	67.42	67.46	16	6	6	77.13	75.06	2	14	6	65.09	66.48
8	7	5	63.08	61.30	17	1	6	34.52	25.23	1	7	6	48.21	49.39	4	14	6	164.19	160.54
10	7	5	45.28	51.82	2	2	6	36.90	34.00	3	7	6	32.43	23.93	6	14	6	76.84	75.12
18	7	5	58.11	58.93	4	2	6	350.10	352.62	5	7	6	125.32	121.81	8	14	6	83.14	87.53
1	8	5	59.62	60.76	8	2	6	91.27	93.09	9	7	6	56.66	57.45	12	14	6	149.93	145.17
3	8	5	66.19	69.83	10	2	6	94.76	88.94	11	7	6	61.05	53.12	14	14	6	80.35	76.66
7	8	5	33.40	32.56	12	2	6	123.29	115.85	13	7	6	58.44	62.51	5	15	6	58.04	49.16
6	9	5	68.00	66.64	16	2	6	60.93	53.85	17	7	6	43.97	39.06	13	15	6	87.23	97.36
10	9	5	28.34	36.14	18	2	6	63.61	61.63	2	8	6	61.78	61.04	2	16	6	46.86	54.82
12	9	5	28.32	29.71	20	2	6	85.97	80.88	4	8	6	218.91	218.90	4	16	6	86.48	89.98
14	9	5	52.58	51.00	1	3	6	29.07	22.79	6	8	6	36.74	35.86	10	16	6	84.21	74.39
1	10	5	56.99	54.24	3	3	6	107.09	105.25	10	8	6	71.23	72.90	3	17	6	35.79	26.06
5	10	5	34.76	37.74	7	3	6	137.12	139.12	12	8	6	148.29	149.57	2	18	6	61.17	58.17
9	10	5	49.83	38.17	11	3	6	105.09	106.40	16	8	6	35.87	32.18	4	18	6	90.30	80.21
13	10	5	40.82	44.02	15	3	6	84.89	79.04	18	8	6	86.59	88.37	6	18	6	51.77	46.95
17	10	5	44.41	47.30	17	3	6	34.22	32.22	1	9	6	75.15	79.84	3	19	6	75.88	71.25
8	11	5	35.79	29.07	2	4	6	417.01	423.40	3	9	6	68.94	65.06	2	20	6	159.75	154.52
10	11	5	54.82	58.73	4	4	6	27.89	26.88	7	9	6	99.47	104.60	4	20	6	46.16	48.01
3	12	5	27.32	25.51	6	4	6	231.79	232.15	13	9	6	52.91	57.19	5	0	7	35.33	31.69
7	12	5	27.56	26.68	8	4	6	227.60	226.28	4	10	6	192.09	194.24	7	0	7	27.32	36.81
9	12	5	54.87	61.06	10	4	6	208.95	209.55	6	10	6	32.37	27.28	9	0	7	31.46	33.24
6	13	5	91.92	90.93	14	4	6	99.94	95.55	10	10	6	121.49	110.77	2	1	7	49.50	51.73
3	14	5	33.28	35.69	16	4	6	117.58	116.98	12	10	6	102.95	106.55	4	1	7	77.60	76.07
7	14	5	43.39	49.99	18	4	6	111.87	120.08	14	10	6	32.53	25.30	14	1	7	49.36	54.39
15	14	5	48.14	48.26	20	4	6	43.23	38.93	1	11	6	49.42	42.55	1	2	7	37.36	33.98
8	15	5	45.83	36.54	1	5	6	151.92	155.34	3	11	6	67.83	59.47	3	2	7	74.64	73.28
10	15	5	40.53	42.41	3	5	6	69.71	65.97	7	11	6	64.37	77.38	9	2	7	38.82	38.70
8	17	5	41.35	42.01	5	5	6	35.06	31.83	9	11	6	71.99	61.36	11	2	7	37.18	38.33
2	0	6	94.20	95.42	7	5	6	56.42	47.23	11	11	6	55.15	52.24	13	2	7	111.67	114.34
4	0	6	401.20	405.75	9	5	6	44.09	46.97	2	12	6	267.86	270.21	2	3	7	63.74	66.16
12	0	6	146.76	153.38	11	5	6	43.14	44.96	4	12	6	37.15	27.57	4	3	7	21.18	26.94
16	0	6	52.91	57.94	15	5	6	34.24	27.73	6	12	6	144.02	148.61	8	3	7	33.40	40.36
18	0	6	56.62	61.59	19	5	6	41.62	44.24	8	12	6	123.09	127.63	10	3	7	53.08	56.27
20	0	6	72.31	65.47	4	6	6	309.15	315.88	10	12	6	205.00	208.47	12	3	7	29.85	25.23

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
1	4	7	22.46	26.61	2	0	8	64.77	58.30	3	5	8	133.67	131.46	2	12	8	107.81	111.77
3	4	7	39.34	44.68	4	0	8	320.09	325.24	5	5	8	83.14	78.51	6	12	8	234.11	237.89
5	4	7	34.98	33.43	8	0	8	460.94	465.88	11	5	8	28.74	32.31	8	12	8	139.14	129.99
9	4	7	49.79	50.06	12	0	8	157.43	162.80	13	5	8	68.49	65.89	10	12	8	69.84	66.48
4	5	7	67.02	68.02	14	0	8	50.43	43.17	17	5	8	43.70	52.35	12	12	8	72.07	69.75
6	5	7	129.08	126.50	16	0	8	250.47	254.52	2	6	8	95.72	101.90	14	12	8	111.73	123.12
10	5	7	39.53	40.78	18	0	8	63.10	46.36	4	6	8	141.81	139.36	5	13	8	47.27	44.42
3	6	7	73.32	72.76	1	1	8	80.32	87.88	8	6	8	54.92	54.36	13	13	8	36.31	30.15
5	6	7	30.58	22.32	5	1	8	72.68	66.95	10	6	8	78.41	84.65	2	14	8	90.42	94.08
9	6	7	37.26	37.43	7	1	8	71.13	77.48	12	6	8	115.35	109.70	4	14	8	117.97	117.58
15	6	7	49.05	54.47	9	1	8	91.15	89.78	18	6	8	52.95	51.13	6	14	8	33.95	27.76
19	6	7	51.22	56.25	11	1	8	28.29	26.07	1	7	8	121.30	120.09	10	14	8	82.90	77.22
2	7	7	107.84	101.27	19	1	8	42.32	32.49	7	7	8	94.72	93.72	1	15	8	31.03	27.60
10	7	7	31.26	25.58	2	2	8	26.16	30.49	9	7	8	59.33	63.42	3	15	8	45.33	47.73
14	7	7	40.37	34.37	4	2	8	294.02	298.28	13	7	8	33.79	30.91	9	15	8	84.23	79.00
1	8	7	45.44	39.54	6	2	8	59.39	61.82	17	7	8	36.56	28.70	11	15	8	38.24	28.33
7	8	7	35.87	23.88	8	2	8	65.39	67.59	4	8	8	237.05	243.01	2	16	8	78.14	87.96
6	9	7	66.56	75.83	10	2	8	61.02	56.10	6	8	8	122.61	116.71	4	16	8	180.52	176.23
12	9	7	32.45	41.51	12	2	8	229.44	228.35	8	8	8	360.87	359.45	6	16	8	46.51	38.21
16	9	7	42.64	23.63	14	2	8	73.17	70.49	12	8	8	190.56	193.36	8	16	8	216.53	217.65
1	10	7	75.77	83.94	16	2	8	56.17	56.97	16	8	8	190.12	193.12	10	16	8	40.01	43.12
5	10	7	26.31	32.72	18	2	8	33.78	49.13	1	9	8	56.48	54.99	1	17	8	84.04	81.24
17	10	7	44.04	48.20	3	3	8	76.36	73.98	3	9	8	58.45	57.46	3	17	8	30.86	27.82
2	11	7	65.16	62.80	5	3	8	66.41	65.59	5	9	8	37.75	37.30	4	18	8	100.88	103.60
4	11	7	45.94	53.73	9	3	8	37.76	37.26	9	9	8	61.34	60.44	6	18	8	82.66	68.73
3	12	7	67.24	69.07	11	3	8	90.33	87.67	17	9	8	35.47	31.68	8	18	8	56.16	56.21
8	13	7	46.18	48.35	13	3	8	80.34	82.63	2	10	8	56.51	57.00	1	0	9	40.03	38.42
3	14	7	45.58	52.52	15	3	8	34.85	36.74	4	10	8	202.01	201.60	3	0	9	23.39	20.67
7	14	7	35.08	27.12	2	4	8	283.03	284.14	6	10	8	119.08	123.90	5	0	9	42.58	31.86
11	14	7	60.44	69.16	4	4	8	85.47	91.63	8	10	8	89.25	80.07	9	0	9	40.69	45.54
2	15	7	41.23	54.91	6	4	8	300.70	299.56	12	10	8	179.35	172.51	15	0	9	56.53	52.03
8	15	7	40.58	35.08	8	4	8	253.23	256.40	14	10	8	73.35	88.11	4	1	9	35.53	39.35
10	15	7	32.34	28.29	10	4	8	155.12	154.67	16	10	8	79.90	70.82	6	1	9	74.95	79.50
3	16	7	48.88	49.72	12	4	8	40.07	46.45	1	11	8	27.65	38.81	18	1	9	31.20	29.98
2	17	7	38.08	44.51	14	4	8	146.57	155.33	3	11	8	96.02	98.55	1	2	9	51.46	46.83
4	17	7	36.79	30.55	16	4	8	140.67	136.20	5	11	8	96.08	93.81	3	2	9	59.27	58.88
5	18	7	57.70	58.74	18	4	8	79.47	75.74	7	11	8	40.21	28.53	5	2	9	32.26	31.56
0	0	8	537.98	547.88	1	5	8	56.29	68.04	13	11	8	42.68	45.81	7	2	9	39.09	38.68

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
9	2	9	83.25	85.77	2	0	10	29.57	27.68	2	6	10	49.26	36.90	1	13	10	40.92	34.24
11	2	9	28.75	35.96	4	0	10	233.13	237.69	4	6	10	199.06	193.03	3	13	10	71.42	68.30
2	3	9	55.06	56.46	10	0	10	102.40	104.81	6	6	10	62.13	72.94	7	13	10	57.64	46.93
4	3	9	35.00	37.19	12	0	10	117.13	113.35	8	6	10	51.05	55.37	9	13	10	43.83	41.69
8	3	9	28.84	20.47	14	0	10	54.38	61.16	12	6	10	215.49	215.52	4	14	10	104.62	103.94
1	4	9	91.30	101.08	16	0	10	55.95	47.82	14	6	10	70.03	60.95	12	14	10	114.11	118.06
3	4	9	37.67	35.74	18	0	10	56.42	55.53	16	6	10	39.71	42.26	1	15	10	43.28	38.67
5	4	9	32.88	35.30	1	1	10	33.58	27.52	1	7	10	95.32	89.41	3	15	10	58.26	47.22
7	4	9	43.36	42.39	3	1	10	97.80	93.54	3	7	10	86.17	92.18	7	15	10	62.40	61.26
15	4	9	72.42	70.77	5	1	10	123.11	120.17	5	7	10	105.44	106.44	2	16	10	66.52	69.71
2	5	9	44.50	50.64	7	1	10	42.67	34.79	7	7	10	50.10	51.19	4	16	10	94.88	89.01
6	5	9	37.49	40.89	11	1	10	41.77	33.44	11	7	10	107.00	107.93	5	17	10	68.97	64.91
8	5	9	48.62	45.90	13	1	10	56.36	54.25	13	7	10	54.47	42.81	4	18	10	63.31	59.33
12	5	9	30.95	20.67	15	1	10	63.73	60.92	15	7	10	55.04	34.70	3	0	11	75.87	82.30
14	5	9	50.97	59.86	4	2	10	235.78	231.08	2	8	10	58.26	49.87	7	0	11	41.18	46.30
18	5	9	36.50	27.80	10	2	10	69.25	67.99	4	8	10	140.58	139.01	10	1	11	59.30	56.59
1	6	9	25.20	25.98	12	2	10	135.01	137.61	10	8	10	43.15	49.24	12	1	11	42.97	33.16
3	6	9	44.81	40.31	14	2	10	42.96	44.24	12	8	10	106.09	112.36	1	2	11	78.12	74.29
5	6	9	58.42	55.86	1	3	10	178.80	184.04	1	9	10	55.18	58.60	7	2	11	49.25	54.80
7	6	9	94.70	99.43	3	3	10	41.02	40.57	5	9	10	86.78	91.70	2	3	11	68.80	73.40
2	7	9	53.58	59.10	5	3	10	50.34	55.95	7	9	10	35.05	24.46	4	3	11	32.41	36.90
6	7	9	35.20	35.07	7	3	10	29.24	32.53	13	9	10	83.19	75.23	6	3	11	56.63	55.37
8	7	9	56.92	63.33	9	3	10	109.74	120.89	2	10	10	49.25	48.40	1	4	11	39.43	49.59
1	8	9	66.33	66.86	15	3	10	63.21	46.61	4	10	10	178.37	172.67	6	5	11	62.25	61.26
7	8	9	47.46	43.33	17	3	10	50.68	61.59	6	10	10	40.68	34.59	14	5	11	52.57	48.41
4	9	9	30.88	31.76	2	4	10	309.71	311.19	10	10	10	46.46	43.03	16	5	11	48.34	52.59
1	10	9	62.63	67.81	6	4	10	195.97	194.81	12	10	10	80.28	80.93	3	6	11	74.47	70.32
11	10	9	41.23	48.88	8	4	10	182.44	183.34	1	11	10	96.39	90.33	7	6	11	35.59	41.47
10	11	9	58.62	62.25	10	4	10	172.47	168.91	3	11	10	28.38	31.91	17	6	11	35.94	31.62
9	12	9	47.55	36.66	14	4	10	74.47	82.83	7	11	10	36.52	28.80	2	7	11	36.51	34.02
14	13	9	46.40	35.55	16	4	10	66.54	58.44	9	11	10	77.41	76.25	4	7	11	37.99	33.25
9	14	9	43.43	30.17	18	4	10	89.04	90.09	13	11	10	42.59	33.81	1	8	11	38.77	25.04
13	14	9	42.47	36.86	1	5	10	47.08	45.08	2	12	10	178.85	179.21	13	8	11	29.43	30.95
2	15	9	53.81	59.84	3	5	10	61.72	62.37	4	12	10	31.17	26.49	10	9	11	40.55	40.27
4	15	9	32.52	23.37	5	5	10	40.70	35.73	6	12	10	110.79	106.65	13	10	11	33.13	39.63
10	15	9	31.62	41.64	7	5	10	79.70	72.08	8	12	10	91.21	94.56	8	11	11	48.66	56.54
8	17	9	45.23	42.74	9	5	10	65.53	70.01	10	12	10	127.33	127.88	10	11	11	59.59	60.10
5	18	9	48.07	37.58	13	5	10	61.97	70.16	14	12	10	55.97	48.37	12	11	11	35.83	37.39

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
5	12	11	65.57	58.95	5	5	12	57.25	64.80	7	13	12	36.76	28.04	7	14	13	45.17	44.19
7	12	11	29.95	30.52	13	5	12	37.07	43.49	2	14	12	80.07	85.01	2	15	13	69.95	62.36
9	12	11	33.36	22.95	2	6	12	146.53	138.50	4	14	12	49.32	50.92	4	15	13	49.97	51.31
11	12	11	59.54	49.51	6	6	12	200.40	197.27	6	14	12	158.26	156.43	4	0	14	97.07	90.83
13	12	11	31.33	19.32	8	6	12	188.10	182.18	8	14	12	112.03	110.83	10	0	14	65.65	65.90
4	13	11	51.43	52.52	10	6	12	82.14	82.57	10	14	12	43.04	54.60	12	0	14	84.58	88.77
8	13	11	35.87	39.04	12	6	12	61.93	54.86	1	15	12	75.03	74.47	3	1	14	114.81	114.80
3	14	11	29.90	29.91	14	6	12	114.22	121.53	3	15	12	63.03	58.60	5	1	14	64.49	82.81
11	14	11	45.82	53.38	16	6	12	137.67	135.36	7	15	12	41.42	34.83	9	1	14	50.85	50.53
4	15	11	37.69	37.80	1	7	12	76.53	83.49	9	15	12	68.06	76.09	11	1	14	60.08	57.65
6	17	11	45.08	33.47	3	7	12	52.52	54.66	2	16	12	134.79	130.13	13	1	14	45.54	30.99
0	0	12	86.63	84.20	7	7	12	80.80	86.08	4	16	12	54.13	53.17	2	2	14	36.38	29.46
2	0	12	205.78	210.90	9	7	12	114.95	114.72	6	16	12	33.59	49.66	4	2	14	138.46	143.90
6	0	12	150.35	146.81	11	7	12	59.21	50.85	1	17	12	69.40	69.15	6	2	14	33.95	37.27
8	0	12	153.40	151.92	2	8	12	215.33	214.40	7	0	13	43.23	41.11	10	2	14	42.01	50.01
10	0	12	138.23	141.21	6	8	12	145.07	143.30	9	0	13	48.40	31.03	12	2	14	72.33	80.13
14	0	12	110.16	113.41	8	8	12	87.72	86.07	14	1	13	53.83	61.58	14	2	14	57.98	47.54
16	0	12	92.96	93.96	10	8	12	130.66	123.89	1	2	13	35.79	29.48	1	3	14	59.56	66.94
1	1	12	101.19	103.81	12	8	12	38.10	26.89	3	2	13	49.52	31.87	5	3	14	51.73	46.44
9	1	12	47.02	59.45	14	8	12	34.80	24.22	9	2	13	44.78	52.79	7	3	14	115.19	111.94
13	1	12	39.51	30.97	1	9	12	66.69	69.26	2	3	13	31.68	28.65	9	3	14	84.79	77.42
2	2	12	268.21	272.88	3	9	12	61.88	59.34	4	3	13	32.84	20.73	15	3	14	44.14	58.59
6	2	12	216.83	218.20	5	9	12	45.37	46.49	3	4	13	51.13	46.34	2	4	14	209.82	209.60
8	2	12	150.46	148.29	9	9	12	43.88	52.51	2	5	13	37.81	34.41	6	4	14	135.10	134.54
10	2	12	204.29	207.99	13	9	12	31.97	26.07	6	5	13	37.13	29.45	8	4	14	82.03	88.33
14	2	12	196.81	197.86	2	10	12	160.82	162.33	8	5	13	40.47	49.08	10	4	14	117.41	108.16
16	2	12	62.78	52.61	6	10	12	259.22	271.81	1	6	13	34.26	30.91	14	4	14	71.68	68.46
3	3	12	91.45	91.28	8	10	12	87.87	84.56	7	6	13	61.68	60.48	1	5	14	132.47	131.64
5	3	12	102.09	107.10	10	10	12	104.42	111.71	13	6	13	55.90	36.92	3	5	14	32.30	27.17
7	3	12	64.56	66.99	14	10	12	146.04	148.82	15	6	13	51.14	51.46	7	5	14	32.83	30.87
11	3	12	98.60	96.01	5	11	12	101.12	101.32	2	7	13	36.31	37.43	9	5	14	95.66	93.12
13	3	12	64.84	73.97	11	11	12	33.91	34.17	1	8	13	51.26	50.95	11	5	14	33.74	33.34
2	4	12	72.19	70.54	13	11	12	74.90	76.79	8	9	13	53.47	38.35	2	6	14	53.83	48.20
4	4	12	128.89	129.36	2	12	12	45.33	49.71	10	11	13	37.93	39.35	4	6	14	137.33	130.52
6	4	12	53.17	56.70	4	12	12	93.93	91.11	7	12	13	47.43	47.36	8	6	14	84.63	75.08
10	4	12	66.66	75.24	10	12	12	60.47	56.49	2	13	13	39.39	30.12	12	6	14	159.05	159.65
12	4	12	110.11	110.30	12	12	12	62.88	55.37	3	14	13	44.47	42.99	14	6	14	51.00	55.62
1	5	12	48.78	47.64	5	13	12	67.36	83.32	5	14	13	34.61	23.57	1	7	14	31.68	22.66

Table 4. (continued)

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
3	7	14	70.45	68.09	6	5	15	35.57	47.16	4	8	16	137.07	136.48	9	5	18	40.22	37.29
5	7	14	112.86	116.57	8	5	15	40.37	40.08	8	8	16	188.30	187.34	2	6	18	44.36	33.48
13	7	14	76.40	92.66	14	5	15	63.67	53.58	10	8	16	57.47	44.27	4	6	18	102.66	98.75
4	8	14	109.28	117.12	3	6	15	41.21	52.33	1	9	16	93.64	95.99	6	6	18	68.16	67.30
8	8	14	49.97	44.56	5	6	15	31.27	23.43	7	9	16	53.04	45.32	8	6	18	65.82	53.73
10	8	14	68.57	61.09	11	6	15	31.47	47.08	9	9	16	73.56	71.34	3	7	18	68.51	76.14
12	8	14	50.12	53.75	4	7	15	29.13	24.03	4	10	16	89.94	88.35	5	7	18	62.66	62.99
1	9	14	35.46	35.08	10	11	15	61.65	57.79	6	10	16	42.87	41.97	7	7	18	61.58	58.38
3	9	14	93.99	91.95	0	0	16	249.61	250.68	8	10	16	32.39	33.73	5	9	18	101.57	90.75
5	9	14	54.05	51.84	4	0	16	172.89	176.57	5	11	16	84.75	71.53	2	10	18	42.12	47.54
7	9	14	53.40	39.11	6	0	16	60.75	66.26	7	11	16	59.74	65.15	4	10	18	96.79	82.86
9	9	14	56.10	59.01	8	0	16	235.61	237.96	2	12	16	80.31	81.27	5	0	19	61.01	54.62
2	10	14	76.35	88.63	10	0	16	54.68	35.94	4	12	16	56.56	65.98	6	3	19	32.04	23.18
4	10	14	112.36	106.93	12	0	16	102.65	99.07	6	12	16	90.98	90.20	8	3	19	39.84	34.41
12	10	14	81.41	75.23	1	1	16	84.10	86.96	1	13	16	35.03	24.33	5	4	19	70.78	67.30
1	11	14	75.95	71.11	5	1	16	39.42	40.87	7	0	17	31.92	27.00	3	8	19	38.60	36.83
3	11	14	41.81	41.26	7	1	16	41.07	46.03	9	0	17	30.16	26.20	0	0	20	35.60	34.06
7	11	14	54.36	56.96	4	2	16	147.41	144.62	2	1	17	38.26	27.67	2	0	20	109.58	110.30
9	11	14	72.93	66.27	12	2	16	114.29	105.44	2	3	17	53.80	38.58	6	0	20	78.93	76.47
11	11	14	49.53	47.19	3	3	16	72.75	61.05	6	3	17	30.73	27.11	1	1	20	81.60	88.97
2	12	14	96.62	99.67	5	3	16	125.48	131.08	9	4	17	31.52	24.86	2	2	20	117.81	110.01
4	12	14	31.20	25.27	9	3	16	46.03	49.36	6	9	17	31.94	44.41	6	2	20	135.21	137.00
6	12	14	67.24	75.62	11	3	16	66.26	63.62	2	0	18	31.14	38.21	3	3	20	87.86	87.77
8	12	14	60.31	62.80	13	3	16	86.73	77.87	4	0	18	48.55	38.19	5	3	20	78.85	87.62
10	12	14	132.03	124.71	2	4	16	144.20	141.55	10	0	18	45.69	52.48	2	4	20	37.15	29.42
1	13	14	120.76	113.50	4	4	16	80.91	78.17	5	1	18	74.75	80.59	4	4	20	53.82	49.52
9	13	14	36.72	51.79	6	4	16	125.16	128.46	7	1	18	35.11	29.76	3	5	20	37.11	32.65
4	14	14	66.67	71.59	8	4	16	135.62	141.82	4	2	18	79.13	78.26	2	6	20	102.08	113.30
6	14	14	60.03	50.40	10	4	16	63.59	68.54	1	3	18	96.58	94.43					
5	15	14	76.27	76.02	12	4	16	56.14	51.15	7	3	18	60.15	55.18					
14	1	15	46.04	41.35	3	5	16	58.10	44.47	9	3	18	103.68	114.84					
3	2	15	43.10	35.86	5	5	16	78.34	79.15	2	4	18	116.80	108.92					
5	2	15	36.15	36.62	9	5	16	43.23	35.13	6	4	18	82.55	76.43					
7	2	15	31.44	33.61	4	6	16	121.64	118.40	8	4	18	62.21	66.43					
11	2	15	37.93	44.15	12	6	16	86.86	90.08	10	4	18	72.54	71.98					
2	3	15	58.85	61.56	1	7	16	104.11	110.01	1	5	18	58.91	61.42					
8	3	15	43.23	53.26	3	7	16	48.66	38.59	5	5	18	58.48	54.95					
10	3	15	58.49	44.94	9	7	16	88.03	82.47	7	5	18	62.57	57.86					