

ms. # 8035 Oberti et al. Sodic-ferripedrize, a new monoclinic amphibole bridging the magnesium-iron.manganese-lithium and the sosium-calcium groups

Table 7. Observed and calculated structure factors. * = considered as not observed in the structure refinement

Crystal P(1)

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	4	0	147.1	147.3	4	4	0	24.0	23.9	8	10	0	21.8	22.8
0	6	0	41.3	40.1	4	6	0*	7.9	8.2	8	12	0	41.2	41.1
0	8	0*	4.0	3.2	4	8	0	164.2	164.9	8	14	0	27.4	26.9
0	10	0	109.4	108.7	4	10	0	41.7	42.7	8	16	0	29.1	29.2
0	12	0	250.4	251.0	4	12	0	71.8	72.1	8	18	0	27.5	27.5
0	14	0	81.1	80.8	4	14	0	21.2	22.0	9	1	0	41.1	40.9
0	16	0	34.9	36.0	4	16	0	43.0	42.9	9	3	0	19.6	18.2
0	18	0*	7.0	5.1	4	18	0	20.4	19.5	9	5	0	36.2	35.9
0	20	0	66.8	68.0	4	20	0	47.8	47.2	9	7	0	35.2	34.8
0	22	0	96.0	96.1	4	22	0	48.1	48.9	9	9	0*	11.1	12.0
0	24	0	103.4	103.9	5	1	0	79.2	76.1	9	11	0	32.4	31.9
1	3	0	55.4	52.6	5	3	0	26.9	26.8	9	13	0	22.1	21.6
1	5	0	53.6	54.4	5	5	0	29.7	29.6	9	15	0	17.6	17.4
1	7	0	71.6	70.5	5	7	0*	6.7	7.4	9	17	0	43.7	44.6
1	9	0	78.7	76.7	5	9	0*	7.8	7.3	10	0	0	106.0	104.4
1	11	0	135.2	133.5	5	11	0	48.1	47.9	10	2	0	27.4	25.3
1	13	0*	8.2	7.7	5	13	0	57.8	59.0	10	4	0	24.8	22.8
1	15	0	37.4	36.7	5	15	0	53.5	52.6	10	6	0	23.8	23.8
1	17	0*	7.0	5.0	5	17	0	16.1	14.9	10	8	0	93.8	94.0
1	19	0	30.3	30.2	5	19	0	17.5	15.5	10	10	0	31.2	29.4
1	21	0	25.6	25.9	5	21	0	19.6	18.7	10	12	0	107.5	106.3
1	23	0	26.4	27.2	5	23	0	40.9	40.9	10	14	0	44.6	45.0
1	25	0	25.4	26.2	6	0	0	129.1	126.8	10	16	0	27.7	27.1
2	0	0	28.1	31.0	6	2	0	39.8	40.7	11	1	0	61.4	61.1
2	2	0	28.4	28.5	6	4	0	33.8	33.0	11	3	0	36.4	35.6
2	4	0	78.4	76.4	6	6	0	49.7	50.9	11	5	0	27.7	26.9
2	6	0	30.3	29.9	6	8	0*	3.9	5.0	11	7	0	22.1	21.1
2	8	0	22.9	21.8	6	10	0	12.8	12.9	11	9	0*	3.4	3.0
2	10	0	20.0	20.3	6	12	0*	12.1	12.5	11	11	0	55.7	53.8
2	12	0*	12.0	12.3	6	14	0	35.7	35.6	11	13	0*	.0	3.7
2	14	0*	12.7	10.7	6	16	0	50.3	50.4	12	0	0	30.7	30.2
2	16	0	41.9	41.6	6	18	0	15.4	13.5	12	2	0*	8.4	6.7

2	18	0*	5.7	3.1	6	20	0	37.0	37.4	12	4	0*	14.1	13.4
2	20	0*	9.6	11.7	6	22	0	25.1	24.5	12	6	0*	11.1	13.3
2	22	0	14.9	16.9	7	1	0	101.1	102.2	12	8	0*	7.8	9.4
2	24	0	44.7	44.8	7	3	0	78.6	79.8	12	10	0	15.4	13.9
3	1	0	180.6	181.5	7	5	0	33.6	34.3	13	1	0	15.2	15.6
3	3	0	149.7	148.3	7	7	0	64.9	65.0	13	3	0	24.1	24.0
3	5	0	34.4	33.9	7	9	0	94.4	93.7	0	0	1	57.1	56.6
3	7	0	24.6	24.1	7	11	0	170.9	171.8	0	2	1	86.7	86.0
3	9	0	26.2	27.7	7	13	0	52.9	52.8	0	4	1*	6.7	4.5
3	11	0	105.4	108.2	7	15	0	78.4	78.2	0	6	1	142.6	140.0
3	13	0*	6.8	7.0	7	17	0*	6.2	2.9	0	8	1	46.6	46.8
3	15	0	16.8	17.5	7	19	0	46.5	46.0	0	10	1	23.4	22.3
3	17	0	39.2	39.2	7	21	0*	10.9	6.7	0	12	1	15.9	15.9
3	19	0	58.8	59.5	8	0	0	109.0	111.6	0	14	1	55.3	55.5
3	21	0*	13.5	13.2	8	2	0	22.8	23.6	0	16	1	57.2	56.8
3	23	0	76.9	76.5	8	4	0*	2.7	4.3	0	18	1	23.7	23.0
4	0	0	28.9	29.1	8	6	0	16.9	17.6	0	20	1	25.3	24.9
4	2	0	12.0	12.7	8	8	0*	4.9	2.9	0	22	1	24.4	24.2
H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/														

0	24	1*	12.9	15.1	-2	24	1*	13.6	15.7	-5	1	1	25.2	25.8
1	1	1	43.1	42.2	3	1	1	31.2	31.7	5	3	1	16.4	19.3
-1	1	1	47.3	48.7	-3	1	1	42.4	40.9	-5	3	1	62.0	62.9
1	3	1	177.0	174.8	3	3	1	43.4	44.9	5	5	1	99.3	101.8
-1	3	1	34.0	36.9	-3	3	1	135.2	133.7	-5	5	1	53.8	55.6
1	5	1	241.8	239.0	3	5	1	116.9	120.3	5	7	1	50.4	50.5
-1	5	1	88.5	87.9	-3	5	1	137.2	135.5	-5	7	1*	4.3	3.0
1	7	1	98.3	97.6	3	7	1	30.4	31.5	5	9	1*	6.1	3.8
-1	7	1	102.0	101.5	-3	7	1	57.9	56.5	-5	9	1	25.5	25.3
1	9	1	129.3	127.9	3	9	1	30.5	31.0	5	11	1*	3.6	3.8
-1	9	1	67.6	65.1	-3	9	1	99.0	99.0	-5	11	1	40.9	41.0
1	11	1	21.8	21.6	3	11	1	42.9	42.5	5	13	1	26.9	26.7
-1	11	1	40.0	39.1	-3	11	1*	13.3	11.8	-5	13	1	23.6	24.4
1	13	1	85.7	86.1	3	13	1*	1.9	1.4	5	15	1	19.4	20.0
-1	13	1*	6.8	1.7	-3	13	1	60.7	62.8	-5	15	1*	6.1	7.5
1	15	1	55.2	54.7	3	15	1	15.7	15.9	5	17	1	62.9	63.0
-1	15	1	17.0	16.2	-3	15	1	31.5	32.0	-5	17	1	33.2	33.6
1	17	1	159.6	159.0	3	17	1	38.0	38.5	5	19	1*	3.1	5.5
-1	17	1	47.1	47.0	-3	17	1	96.2	96.0	-5	19	1	26.6	27.4

1	19	1	16.9	13.8	3	19	1	30.0	30.3	5	21	1*	14.4	15.4
-1	19	1	44.3	43.8	-3	19	1*	12.4	10.8	-5	21	1*	3.5	1.7
1	21	1	56.3	56.8	3	21	1	16.0	17.2	-5	23	1	17.8	15.9
-1	21	1	59.1	59.4	-3	21	1	20.8	21.3	6	0	1	19.2	18.7
1	23	1*	5.1	2.7	3	23	1	26.5	26.8	-6	0	1	19.5	20.2
-1	23	1*	9.9	8.2	-3	23	1*	1.4	7.7	6	2	1*	3.0	2.3
2	0	1	26.7	26.9	4	0	1*	10.5	7.7	-6	2	1	83.0	84.6
-2	0	1	63.3	62.9	-4	0	1	31.8	32.2	6	4	1*	7.0	3.1
2	2	1	58.7	58.8	4	2	1	115.4	115.5	-6	4	1*	8.5	8.4
-2	2	1	102.5	102.8	-4	2	1	53.4	53.8	6	6	1	94.5	95.4
2	4	1*	7.5	6.6	4	4	1*	9.4	8.9	-6	6	1	284.9	289.5
-2	4	1*	.0	3.3	-4	4	1	22.8	22.2	6	8	1*	9.2	9.7
2	6	1	183.6	184.3	4	6	1	224.8	228.0	-6	8	1	76.4	77.4
-2	6	1	10.4	11.0	-4	6	1	43.2	44.3	6	10	1	22.9	24.1
2	8	1	42.5	43.3	4	8	1	74.1	75.1	-6	10	1	36.5	37.8
-2	8	1	19.1	20.7	-4	8	1	15.1	14.8	6	12	1*	11.3	12.4
2	10	1	67.4	67.4	4	10	1	38.8	38.7	-6	12	1*	7.8	4.3
-2	10	1	12.4	12.6	-4	10	1	72.7	73.4	6	14	1*	8.2	5.6
2	12	1*	5.7	1.6	4	12	1*	2.0	2.1	-6	14	1	62.4	64.5
-2	12	1	17.7	18.1	-4	12	1	12.2	13.8	6	16	1*	7.2	2.3
2	14	1	17.3	17.0	4	14	1	107.2	109.0	-6	16	1	73.5	74.1
-2	14	1	94.9	95.4	-4	14	1*	7.4	4.9	6	18	1	81.2	81.4
2	16	1	48.1	47.8	4	16	1	71.1	71.6	-6	18	1	107.0	108.0
-2	16	1	45.0	45.9	-4	16	1	32.7	32.0	6	20	1	17.7	19.4
2	18	1	20.4	20.1	4	18	1	106.6	107.8	-6	20	1	62.8	62.6
-2	18	1	13.5	11.1	-4	18	1*	9.3	9.2	-6	22	1	14.4	16.7
2	20	1	15.0	15.5	4	20	1	54.1	54.2	7	1	1	12.5	13.6
-2	20	1*	6.9	9.6	-4	20	1*	10.3	9.7	-7	1	1*	4.1	4.5
2	22	1	49.3	48.4	4	22	1	16.2	16.6	7	3	1	69.6	69.7
-2	22	1*	3.0	4.9	-4	22	1	39.4	37.9	-7	3	1	22.3	24.3
2	24	1	17.6	15.8	5	1	1*	4.2	4.0	7	5	1	42.9	43.1

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

-7	5	1	129.6	132.2	-9	13	1*	14.4	12.2	0	4	2	47.0	45.0
7	7	1*	4.0	2.1	9	15	1*	7.2	7.4	0	6	2	21.1	21.1
-7	7	1	53.8	55.5	-9	15	1	18.0	17.6	0	8	2	15.9	13.5
7	9	1	39.1	39.2	9	17	1*	9.3	5.5	0	10	2*	7.0	2.2
-7	9	1	22.1	23.0	-9	17	1	48.6	48.8	0	12	2	138.2	137.0

7	11	1	37.6	38.8	10	0	1	45.2	44.1	0	14	2*	9.0	6.4
-7	11	1	19.8	19.6	-10	0	1*	.0	2.6	0	16	2	51.1	51.5
7	13	1	33.9	33.7	10	2	1*	.0	2.8	0	18	2*	5.1	4.2
-7	13	1	30.6	31.0	-10	2	1	56.3	55.9	0	20	2	21.9	20.9
7	15	1	40.8	40.4	10	4	1	26.4	26.1	0	22	2*	.0	2.5
-7	15	1*	4.4	6.0	-10	4	1	22.1	22.7	0	24	2	60.6	59.9
7	17	1	44.7	45.8	10	6	1	47.3	46.3	1	1	2	13.7	12.3
-7	17	1	88.7	88.5	-10	6	1	67.5	67.9	-1	1	2	38.1	37.4
7	19	1*	12.9	11.3	10	8	1	44.7	45.2	1	3	2	14.1	13.0
-7	19	1*	8.7	8.9	-10	8	1*	12.6	12.6	-1	3	2	37.6	36.7
-7	21	1*	4.7	4.2	10	10	1	31.8	31.0	1	5	2	85.4	83.6
8	0	1	17.7	17.9	-10	10	1	19.0	19.5	-1	5	2	12.4	7.7
-8	0	1	20.0	21.1	10	12	1	23.4	22.8	1	7	2	62.2	60.6
8	2	1	56.6	58.0	-10	12	1*	.0	3.8	-1	7	2*	12.5	3.2
-8	2	1*	1.9	2.2	10	14	1	22.9	24.2	1	9	2	103.3	102.7
8	4	1*	9.7	7.8	-10	14	1	61.2	61.1	-1	9	2	13.3	13.1
-8	4	1	16.2	15.5	-10	16	1	44.9	44.3	1	11	2	141.0	140.8
8	6	1	117.0	117.8	11	1	1*	3.1	3.2	-1	11	2	43.7	44.5
-8	6	1	29.9	29.7	-11	1	1*	5.8	4.0	1	13	2	36.6	37.1
8	8	1	21.2	21.8	11	3	1	62.9	61.0	-1	13	2	26.3	25.1
-8	8	1	15.4	16.6	-11	3	1*	4.4	1.9	1	15	2	45.8	45.8
8	10	1	21.6	22.2	11	5	1	112.3	111.5	-1	15	2*	15.2	12.2
-8	10	1	22.5	23.5	-11	5	1	30.0	28.8	1	17	2*	6.9	6.6
8	12	1*	.0	5.9	11	7	1	64.4	64.7	-1	17	2	18.1	19.1
-8	12	1*	.0	1.3	-11	7	1	28.3	29.4	1	19	2	32.9	32.5
8	14	1	50.8	51.0	11	9	1	57.5	57.5	-1	19	2	31.4	32.5
-8	14	1*	10.5	9.8	-11	9	1	22.2	21.1	1	21	2*	8.4	7.1
8	16	1	51.9	51.3	11	11	1	17.7	15.7	-1	21	2	15.8	13.3
-8	16	1*	14.2	14.7	-11	11	1*	6.7	3.0	1	23	2	47.3	47.3
8	18	1	43.7	44.0	-11	13	1*	17.6	18.8	-1	23	2	15.9	14.2
-8	18	1	41.2	41.0	12	0	1	23.6	22.5	2	0	2	176.3	174.8
-8	20	1*	2.9	5.2	-12	0	1	38.0	37.0	-2	0	2	290.8	288.3
9	1	1*	6.6	1.0	12	2	1	21.8	20.7	2	2	2	35.7	35.6
-9	1	1*	11.0	10.9	-12	2	1*	6.6	2.7	-2	2	2	19.6	20.0
9	3	1*	2.7	3.0	12	4	1	26.1	26.1	2	4	2	107.9	107.2
-9	3	1	56.5	56.3	-12	4	1	18.9	17.5	-2	4	2	36.2	33.2
9	5	1*	8.8	6.8	12	6	1	53.5	52.0	2	6	2	12.9	14.0
-9	5	1	75.9	75.4	-12	6	1*	17.9	15.0	-2	6	2	31.8	31.4
9	7	1	21.9	22.3	-12	8	1	35.8	36.1	2	8	2	80.2	80.9

-9 7 1 24.6 24.8 -12 10 1* 21.6 21.4 -2 8 2 143.6 142.3
9 9 1* 5.8 3.1 -13 1 1* 4.3 3.1 2 10 2 38.5 39.0
-9 9 1 46.2 46.3 -13 3 1 47.6 48.9 -2 10 2 79.6 79.6
9 11 1 17.1 17.2 -13 5 1 78.6 77.2 2 12 2 63.1 63.5
-9 11 1 26.5 26.0 0 0 2 114.2 114.5 -2 12 2 245.7 243.4
9 13 1* 11.1 14.0 0 2 2 20.1 19.4 2 14 2 41.1 39.6

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

-2 14 2 55.7 55.5 4 16 2 18.1 15.9 6 20 2* 8.2 5.4
2 16 2* 6.7 1.5 -4 16 2 55.8 56.1 -6 20 2 64.9 63.6
-2 16 2 28.0 26.8 4 18 2* 6.6 5.6 -6 22 2 53.3 52.2
2 18 2 17.5 16.5 -4 18 2* .0 2.0 7 1 2 20.4 21.3
-2 18 2* 10.7 9.2 4 20 2* 10.2 2.0 -7 1 2 61.2 60.8
2 20 2 66.7 66.2 -4 20 2 19.2 20.5 7 3 2 31.2 31.1
-2 20 2 37.2 36.6 4 22 2 34.5 36.6 -7 3 2 37.2 37.4
2 22 2 53.0 52.3 -4 22 2 25.3 25.3 7 5 2 59.3 59.9
-2 22 2 82.9 82.1 5 1 2 198.0 200.2 -7 5 2 32.8 32.8
-2 24 2 56.4 56.6 -5 1 2 117.3 118.2 7 7 2* .0 4.2
3 1 2* 6.0 2.5 5 3 2 135.4 136.8 -7 7 2* 5.8 5.5
-3 1 2 134.0 132.5 -5 3 2 85.7 87.3 7 9 2* 12.1 8.3
3 3 2 27.1 25.7 5 5 2 15.9 16.2 -7 9 2* .0 2.3
-3 3 2 129.1 128.3 -5 5 2 45.8 44.5 7 11 2 26.2 24.6
3 5 2 18.1 18.9 5 7 2 14.3 14.5 -7 11 2 21.6 21.5
-3 5 2 42.2 39.9 -5 7 2 54.2 53.4 7 13 2* 8.6 10.1
3 7 2 18.0 17.2 5 9 2 44.0 44.6 -7 13 2 39.4 40.7
-3 7 2* 7.6 4.5 -5 9 2 96.3 97.3 7 15 2 16.0 17.0
3 9 2* 8.5 9.3 5 11 2 169.7 169.9 -7 15 2 37.1 36.5
-3 9 2* 12.6 6.4 -5 11 2 182.5 183.9 7 17 2 16.4 16.9
3 11 2* 9.9 9.1 5 13 2 35.7 36.5 -7 17 2* 7.6 7.4
-3 11 2 65.0 62.9 -5 13 2 46.3 47.4 7 19 2* 10.3 8.5
3 13 2 52.9 53.8 5 15 2 56.4 55.9 -7 19 2* .0 3.1
-3 13 2 32.4 33.4 -5 15 2 71.0 72.2 -7 21 2 22.6 22.1
3 15 2 33.3 34.0 5 17 2 26.7 26.8 8 0 2 120.6 120.1
-3 15 2* 3.2 4.2 -5 17 2* 11.6 10.9 -8 0 2* 7.1 3.3
3 17 2 28.9 29.0 5 19 2 60.6 60.5 8 2 2 14.1 13.9
-3 17 2 25.9 26.7 -5 19 2 39.3 38.0 -8 2 2 18.9 19.7
3 19 2 20.9 21.3 5 21 2* 5.1 1.1 8 4 2 74.9 73.5
-3 19 2 48.6 49.1 -5 21 2* 8.8 8.6 -8 4 2* 10.9 10.2

3	21	2	15.9	14.6	6	0	2	86.2	85.5	8	6	2	33.2	34.2
-3	21	2*	8.2	7.9	-6	0	2	186.8	188.1	-8	6	2	47.0	48.0
3	23	2	17.0	17.4	6	2	2*	10.1	8.8	8	8	2	47.1	47.4
-3	23	2	34.8	35.7	-6	2	2	15.7	14.9	-8	8	2	55.5	55.5
4	0	2	121.4	123.8	6	4	2*	10.6	7.0	8	10	2	30.9	30.6
-4	0	2	139.9	141.0	-6	4	2	111.0	111.8	-8	10	2*	9.7	10.2
4	2	2	54.8	54.3	6	6	2	23.2	24.2	8	12	2	36.5	36.9
-4	2	2	28.4	29.2	-6	6	2*	5.8	2.4	-8	12	2*	11.9	11.8
4	4	2	67.0	66.5	6	8	2	17.8	18.1	8	14	2	27.1	28.0
-4	4	2	72.6	72.7	-6	8	2	49.7	49.6	-8	14	2*	11.8	12.6
4	6	2	41.3	42.6	6	10	2	36.1	36.1	8	16	2*	2.2	6.5
-4	6	2	29.8	30.2	-6	10	2	48.0	48.6	-8	16	2*	8.4	9.9
4	8	2	68.3	68.4	6	12	2	35.7	35.4	-8	18	2*	11.3	11.5
-4	8	2	21.5	21.1	-6	12	2	48.3	49.7	9	1	2	26.1	25.9
4	10	2	18.5	18.3	6	14	2	20.6	20.8	-9	1	2	89.4	90.9
-4	10	2	31.0	30.9	-6	14	2	33.2	32.3	9	3	2	25.7	27.0
4	12	2	119.8	119.8	6	16	2	14.4	13.3	-9	3	2	96.8	97.0
-4	12	2	47.3	46.8	-6	16	2*	5.2	4.2	9	5	2	13.2	14.1
4	14	2	52.0	52.5	6	18	2	25.3	25.9	-9	5	2	27.1	27.2
-4	14	2	26.1	27.3	-6	18	2	17.2	18.2	9	7	2	41.7	42.2

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

-9	7	2*	18.8	19.3	0	8	3	26.7	28.0	2	20	3	33.5	33.3
9	9	2	26.0	25.3	0	10	3	42.0	42.8	-2	20	3	38.1	37.9
-9	9	2	37.9	37.4	0	12	3*	6.7	6.3	2	22	3*	6.3	3.3
9	11	2	49.7	48.6	0	14	3*	6.8	7.1	-2	22	3*	12.7	11.2
-9	11	2	71.3	71.5	0	16	3	36.1	36.2	3	1	3*	7.2	6.2
9	13	2*	7.2	1.9	0	18	3*	.0	2.0	-3	1	3	35.4	35.2
-9	13	2*	6.0	1.3	0	20	3*	7.7	8.5	3	3	3	23.2	23.3
9	15	2	16.4	15.4	0	22	3	34.1	35.8	-3	3	3	11.7	10.2
-9	15	2	28.0	28.6	1	1	3	38.3	38.6	3	5	3	56.2	56.7
-9	17	2	14.8	15.9	-1	1	3	29.5	27.9	-3	5	3	14.3	10.7
10	0	2	47.1	47.3	1	3	3	10.8	8.0	3	7	3*	11.6	10.3
-10	0	2*	13.2	12.4	-1	3	3	130.6	128.8	-3	7	3	28.7	28.5
10	2	2*	.0	5.8	1	5	3	30.2	31.3	3	9	3*	9.3	6.3
-10	2	2*	9.1	10.5	-1	5	3	232.6	231.3	-3	9	3	21.7	19.9
10	4	2	43.2	42.6	1	7	3	13.0	13.7	3	11	3*	14.0	11.8
-10	4	2	34.6	34.8	-1	7	3	118.7	118.7	-3	11	3	31.4	31.7

10	6	2*	18.7	19.5	1	9	3	29.0	28.6	3	13	3	31.9	32.3
-10	6	2*	11.3	10.1	-1	9	3	120.7	120.8	-3	13	3*	9.7	2.9
10	8	2*	7.0	5.3	1	11	3	47.5	48.3	3	15	3*	3.9	3.4
-10	8	2	20.0	20.2	-1	11	3*	9.0	5.2	-3	15	3	24.4	21.4
10	10	2*	3.8	1.2	1	13	3*	6.5	6.5	3	17	3	40.6	41.3
-10	10	2*	17.7	15.1	-1	13	3	55.7	55.2	-3	17	3*	10.3	10.0
10	12	2	26.0	25.2	1	15	3*	10.6	10.3	3	19	3*	4.0	5.1
-10	12	2	23.7	24.4	-1	15	3	23.7	23.8	-3	19	3	38.4	39.2
-10	14	2*	15.1	10.1	1	17	3	18.8	19.1	3	21	3*	13.6	13.4
-10	16	2*	13.5	14.8	-1	17	3	143.1	142.8	-3	21	3	38.1	38.7
11	1	2	25.6	24.7	1	19	3*	14.2	15.0	4	0	3	39.5	39.3
-11	1	2*	4.0	5.7	-1	19	3*	3.2	3.6	-4	0	3	32.1	32.1
11	3	2	59.3	60.6	1	21	3	24.0	24.9	4	2	3	15.3	15.8
-11	3	2*	5.2	6.8	-1	21	3	43.9	44.2	-4	2	3	82.3	83.2
11	5	2	22.1	22.4	2	0	3	20.3	20.0	4	4	3	16.5	15.9
-11	5	2	45.9	46.2	-2	0	3	26.0	23.9	-4	4	3*	4.3	2.5
11	7	2	20.2	19.7	2	2	3	120.5	120.5	4	6	3	74.8	74.9
-11	7	2	16.7	17.7	-2	2	3	32.0	31.9	-4	6	3	78.7	82.5
-11	9	2*	10.1	9.9	2	4	3*	6.4	2.5	4	8	3*	10.3	10.0
-11	11	2	23.4	21.6	-2	4	3*	8.9	5.2	-4	8	3	43.9	44.6
-11	13	2*	13.7	12.4	2	6	3	120.4	122.2	4	10	3	47.8	48.0
-12	0	2	149.4	145.5	-2	6	3	192.5	189.8	-4	10	3	29.9	31.1
-12	2	2	35.0	33.4	2	8	3	43.1	43.8	4	12	3	15.8	16.3
-12	4	2	55.8	55.2	-2	8	3	59.9	59.8	-4	12	3*	15.5	16.1
-12	6	2	16.2	16.3	2	10	3	63.9	65.5	4	14	3*	10.2	11.5
-12	8	2	41.0	39.7	-2	10	3*	19.5	19.5	-4	14	3	66.3	67.9
-12	10	2	19.9	18.0	2	12	3*	4.5	1.4	4	16	3*	3.7	2.6
-13	1	2	50.2	49.2	-2	12	3*	7.3	6.4	-4	16	3	40.2	39.9
-13	3	2*	12.9	12.6	2	14	3	88.1	88.7	4	18	3	55.2	55.5
-13	5	2*	6.0	5.7	-2	14	3	54.4	54.2	-4	18	3*	11.8	14.8
0	0	3*	7.8	3.3	2	16	3	54.2	55.2	4	20	3*	13.8	13.9
0	2	3	28.0	24.0	-2	16	3	57.0	56.5	-4	20	3	24.2	23.0
0	4	3*	10.1	8.0	2	18	3	37.1	37.4	-4	22	3*	2.9	7.4
0	6	3	80.8	80.7	-2	18	3	79.6	78.5	5	1	3*	11.5	11.9

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-5	1	3	21.6	21.3	-7	9	3	13.4	14.4	10	8	3*	12.5	12.8
5	3	3	89.8	90.7	7	11	3*	12.7	14.5	-10	8	3	33.7	33.8

-5	3	3	84.6	84.9	-7	11	3	25.7	25.4	-10	10	3	28.9	26.9
5	5	3	65.3	68.0	7	13	3	16.7	17.2	-10	12	3*	10.5	8.1
-5	5	3	97.7	97.2	-7	13	3	14.1	13.7	-10	14	3*	3.6	2.7
5	7	3	17.8	18.8	7	15	3*	16.7	17.0	-11	1	3	15.1	17.7
-5	7	3	35.1	34.7	-7	15	3*	14.4	10.9	-11	3	3	54.3	53.5
5	9	3	67.8	68.2	-7	17	3*	10.3	11.5	-11	5	3	79.7	80.0
-5	9	3	53.3	54.5	-7	19	3	32.8	31.2	-11	7	3	38.3	38.4
5	11	3	28.4	28.2	8	0	3	32.3	33.1	-11	9	3	38.0	38.8
-5	11	3*	11.1	9.8	-8	0	3	29.9	30.1	-11	11	3	31.0	29.7
5	13	3	24.7	24.5	8	2	3*	7.5	7.9	-11	13	3	18.9	19.0
-5	13	3	60.7	60.9	-8	2	3	46.8	47.4	-12	0	3*	7.0	2.0
5	15	3	31.0	30.4	8	4	3*	9.5	10.9	-12	2	3	51.3	52.0
-5	15	3	39.7	39.9	-8	4	3*	8.3	7.5	-12	4	3	18.5	17.9
5	17	3	46.3	46.4	8	6	3	48.1	48.4	-12	6	3	80.3	79.8
-5	17	3	90.9	91.1	-8	6	3	167.9	170.3	-12	8	3*	13.4	13.6
5	19	3	28.1	26.6	8	8	3	36.1	35.4	-13	1	3*	7.2	5.2
-5	19	3*	11.2	7.1	-8	8	3	37.6	38.6	-13	3	3*	6.9	7.8
-5	21	3	24.2	23.9	8	10	3*	12.6	11.5	0	0	4	205.2	205.1
6	0	3*	4.4	6.0	-8	10	3*	.0	3.0	0	2	4	33.9	34.7
-6	0	3	31.6	31.2	8	12	3	19.1	17.9	0	4	4	36.3	35.9
6	2	3	51.1	51.5	-8	12	3*	2.3	7.3	0	6	4*	10.7	7.6
-6	2	3	16.0	17.2	8	14	3*	9.9	7.8	0	8	4	77.0	76.2
6	4	3*	13.9	13.9	-8	14	3	62.1	62.4	0	10	4	42.8	42.2
-6	4	3*	8.2	8.2	-8	16	3	55.8	56.7	0	12	4	135.0	133.9
6	6	3	167.3	167.3	-8	18	3	91.4	91.7	0	14	4	53.2	52.8
-6	6	3	40.7	41.4	9	1	3*	6.8	6.6	0	16	4*	6.3	3.4
6	8	3	46.7	46.1	-9	1	3*	9.2	7.9	0	18	4*	13.5	13.4
-6	8	3	13.2	12.8	9	3	3	46.0	44.8	0	20	4	37.7	38.8
6	10	3*	9.9	9.7	-9	3	3	30.7	30.6	1	1	4*	12.8	7.2
-6	10	3	31.6	32.9	9	5	3	101.4	100.7	-1	1	4	125.5	126.0
6	12	3*	.0	1.7	-9	5	3	80.9	81.2	1	3	4	13.4	14.3
-6	12	3*	6.6	7.0	9	7	3	48.3	47.9	-1	3	4	110.7	112.5
6	14	3	56.7	57.0	-9	7	3	39.4	39.4	1	5	4	42.1	43.9
-6	14	3*	5.1	5.5	9	9	3	45.2	46.3	-1	5	4*	5.6	4.2
6	16	3	52.2	52.3	-9	9	3	26.0	26.3	1	7	4	15.9	15.7
-6	16	3	19.0	20.5	9	11	3	17.4	18.5	-1	7	4*	1.6	5.3
6	18	3	86.6	86.3	-9	11	3*	3.4	2.1	1	9	4	12.0	12.6
-6	18	3	55.0	55.1	-9	13	3	24.9	24.7	-1	9	4	39.7	40.1

-6 20 3 21.0 21.2 -9 15 3* 12.2 12.6 1 11 4 37.7 38.2
7 1 3* 11.1 7.9 -9 17 3 54.2 54.9 -1 11 4 102.0 100.6
-7 1 3* 3.8 5.3 10 0 3* 1.3 7.8 1 13 4* 11.8 12.0
7 3 3* 4.6 4.3 -10 0 3* 5.5 7.8 -1 13 4* 1.9 1.3
-7 3 3 30.7 30.8 10 2 3* 19.2 20.2 1 15 4* 3.1 3.6
7 5 3 31.2 30.5 -10 2 3* 10.3 8.9 -1 15 4 26.2 27.2
-7 5 3* 9.6 5.0 10 4 3 23.3 22.8 1 17 4* 3.5 7.2
7 7 3* .0 4.2 -10 4 3* .0 5.4 -1 17 4 35.0 35.3
-7 7 3 38.0 39.0 10 6 3 27.5 24.9 1 19 4* 9.6 6.5
7 9 3* 9.0 7.0 -10 6 3 15.2 14.8 -1 19 4 50.1 50.4

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-1 21 4 14.6 12.6 -4 6 4 15.9 16.3 7 1 4 34.5 35.2
2 0 4 160.3 160.6 4 8 4 35.8 36.6 -7 1 4 114.8 115.9
-2 0 4 125.3 123.7 -4 8 4 68.6 68.1 7 3 4 45.6 45.3
2 2 4 28.3 28.5 4 10 4 26.5 27.8 -7 3 4 96.9 98.0
-2 2 4 29.5 30.3 -4 10 4 45.0 44.4 7 5 4* 6.1 6.4
2 4 4 26.6 27.5 4 12 4* 7.0 3.7 -7 5 4* .0 2.6
-2 4 4 45.7 47.2 -4 12 4 77.4 76.9 7 7 4 33.7 34.8
2 6 4 22.7 23.3 4 14 4* 6.2 3.8 -7 7 4 19.0 18.1
-2 6 4 18.6 18.0 -4 14 4 32.0 32.3 7 9 4 35.9 37.4
2 8 4 13.0 14.0 4 16 4* .0 3.9 -7 9 4 48.8 48.4
-2 8 4 51.5 53.6 -4 16 4* 7.2 3.6 7 11 4 54.9 53.7
2 10 4 23.4 24.4 4 18 4 20.3 21.9 -7 11 4 120.6 121.5
-2 10 4* 13.1 9.2 -4 18 4* 4.5 7.3 7 13 4* 2.2 4.8
2 12 4 40.1 40.3 -4 20 4 64.8 65.5 -7 13 4 19.2 18.9
-2 12 4 51.8 52.2 5 1 4* 11.0 13.7 -7 15 4 50.9 50.4
2 14 4 39.6 38.4 -5 1 4 19.3 18.9 -7 17 4 24.6 22.8
-2 14 4* 9.1 5.2 5 3 4* 7.5 9.4 8 0 4 24.5 25.1
2 16 4 46.3 47.3 -5 3 4* 9.5 10.1 -8 0 4 117.2 118.6
-2 16 4* 7.8 7.9 5 5 4* 11.6 13.0 8 2 4 17.0 16.9
2 18 4* 6.7 1.6 -5 5 4 30.2 31.5 -8 2 4 14.3 15.4
-2 18 4* 4.0 4.2 5 7 4 31.6 33.1 8 4 4* 7.0 7.8
2 20 4 21.4 22.2 -5 7 4 37.3 39.1 -8 4 4* 6.0 4.7
-2 20 4* .0 2.5 5 9 4 18.2 19.3 8 6 4* 8.9 12.0
3 1 4 111.8 112.7 -5 9 4 32.7 32.6 -8 6 4* 5.1 3.2
-3 1 4 17.1 15.6 5 11 4 38.4 37.8 8 8 4 23.8 24.6
3 3 4 61.3 62.0 -5 11 4 44.2 42.6 -8 8 4 75.1 75.7

-3 3 4 18.8 16.6 5 13 4 51.9 52.7 8 10 4* 3.6 1.6
3 5 4 14.0 11.9 -5 13 4* 2.6 3.0 -8 10 4 37.4 38.8
-3 5 4 20.9 21.0 5 15 4 43.3 42.8 -8 12 4 113.6 114.9
3 7 4 40.3 40.3 -5 15 4* 10.4 8.1 -8 14 4 36.6 37.0
-3 7 4* 9.2 5.6 -5 17 4* 5.1 6.1 -8 16 4 20.7 20.5
3 9 4 53.0 51.8 -5 19 4 18.1 17.1 9 1 4 17.4 17.8
-3 9 4 13.2 11.4 6 0 4 59.1 61.0 -9 1 4* 7.3 7.5
3 11 4 148.2 148.9 -6 0 4 64.5 64.7 9 3 4 30.7 30.4
-3 11 4 23.6 24.1 6 2 4 19.2 20.6 -9 3 4* 8.7 9.7
3 13 4 45.4 46.0 -6 2 4* 12.2 13.7 9 5 4 49.9 49.1
-3 13 4 21.9 20.3 6 4 4 16.8 14.8 -9 5 4* 8.3 5.7
3 15 4 51.2 51.1 -6 4 4 35.3 34.7 -9 7 4 20.9 18.8
-3 15 4 19.9 19.3 6 6 4 41.2 42.7 -9 9 4 14.6 15.9
3 17 4* 5.0 5.8 -6 6 4 21.7 22.3 -9 11 4* .0 5.3
-3 17 4 19.6 21.5 6 8 4 78.9 79.8 -9 13 4 35.3 34.4
3 19 4 37.7 37.6 -6 8 4 38.7 39.6 -9 15 4 29.3 29.8
-3 19 4 25.6 24.6 6 10 4 18.7 19.5 -10 0 4 41.2 42.7
4 0 4* 4.3 5.3 -6 10 4 14.3 15.2 -10 2 4 14.6 15.2
-4 0 4 175.8 174.3 6 12 4 64.5 64.1 -10 4 4* 17.0 17.8
4 2 4* 1.8 5.6 -6 12 4* 4.2 1.5 -10 6 4 34.5 35.0
-4 2 4 14.8 14.7 6 14 4 29.2 28.9 -10 8 4 36.3 36.3
4 4 4* 6.7 5.5 -6 14 4* 10.2 11.1 -10 10 4 15.8 16.1
-4 4 4 86.5 87.4 -6 16 4 59.3 59.8 -10 12 4 18.6 17.0
4 6 4* 11.0 10.9 -6 18 4* 3.0 .2 -11 1 4 33.3 32.1

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

-11 3 4 42.0 41.2 -2 12 5* 2.7 1.2 -5 9 5* 13.2 12.8
-11 5 4* .0 4.2 2 14 5* 12.9 13.1 5 11 5* .0 4.7
-11 7 4 40.9 42.1 -2 14 5* 12.9 12.2 -5 11 5 31.6 31.7
-11 9 4 53.2 52.9 2 16 5* 10.2 10.1 -5 13 5* 3.8 3.6
-11 11 4 70.7 70.8 -2 16 5 18.9 16.4 -5 15 5* 11.9 11.8
-12 0 4* 8.4 11.2 -2 18 5 29.5 26.5 -5 17 5* 11.0 11.6
-12 2 4* 9.0 3.6 3 1 5* 5.0 6.9 6 0 5 27.0 28.1
-12 4 4* 12.4 5.9 -3 1 5 13.8 13.7 -6 0 5 22.4 21.6
-12 6 4* 3.8 1.6 3 3 5 64.9 64.7 6 2 5* 4.3 5.2
0 0 5 28.4 28.5 -3 3 5 67.8 67.8 -6 2 5 49.1 49.4
0 2 5 83.4 84.8 3 5 5 74.6 75.5 6 4 5* 7.0 .4
0 4 5* 3.3 1.5 -3 5 5 124.0 124.3 -6 4 5* 9.9 8.0

0	6	5	85.8	85.4	3	7	5	22.1	22.9	6	6	5*	5.9	4.7
0	8	5	39.0	38.7	-3	7	5	65.0	64.8	-6	6	5	107.8	107.9
0	10	5	31.8	32.7	3	9	5	54.7	54.5	6	8	5*	14.0	16.6
0	12	5*	11.4	11.7	-3	9	5	58.8	58.4	-6	8	5	41.9	42.4
0	14	5	90.1	90.2	3	11	5	34.7	34.0	6	10	5	18.8	18.4
0	16	5	39.5	38.5	-3	11	5*	10.5	9.3	-6	10	5*	14.0	13.8
0	18	5	42.1	43.1	3	13	5	29.6	29.1	-6	12	5*	6.2	3.1
1	1	5*	7.9	6.8	-3	13	5	47.2	47.4	-6	14	5	52.0	51.8
-1	1	5	28.2	28.5	3	15	5	30.5	31.1	-6	16	5	38.1	39.5
1	3	5	45.4	46.2	-3	15	5	22.6	20.9	7	1	5*	.0	1.6
-1	3	5*	7.6	3.3	-3	17	5	101.2	100.7	-7	1	5	13.3	13.0
1	5	5	56.8	57.1	4	0	5*	4.5	2.3	7	3	5	47.5	47.4
-1	5	5*	12.9	6.9	-4	0	5*	14.2	5.9	-7	3	5	62.5	62.5
1	7	5	17.0	16.7	4	2	5	45.7	46.1	7	5	5	63.0	63.0
-1	7	5	24.9	23.9	-4	2	5	18.4	18.4	-7	5	5	107.6	108.4
1	9	5	31.2	30.0	4	4	5*	12.3	13.8	7	7	5	35.6	33.7
-1	9	5	20.8	21.3	-4	4	5*	10.6	7.4	-7	7	5	51.1	52.3
1	11	5*	11.8	9.6	4	6	5	149.8	151.4	-7	9	5	59.2	58.9
-1	11	5	25.4	26.1	-4	6	5	122.3	120.4	-7	11	5*	6.6	5.3
1	13	5	32.7	32.7	4	8	5	30.6	30.2	-7	13	5	26.6	28.1
-1	13	5*	6.5	7.5	-4	8	5	32.9	33.2	-7	15	5*	15.7	15.9
1	15	5*	13.2	14.0	4	10	5	18.8	19.2	-8	0	5*	13.5	14.2
-1	15	5	15.2	16.0	-4	10	5*	6.6	1.8	-8	2	5*	2.8	1.4
1	17	5	44.9	45.9	4	12	5*	13.1	12.2	-8	4	5*	5.0	4.0
-1	17	5	18.1	17.5	-4	12	5*	2.7	2.6	-8	6	5	34.3	33.5
2	0	5	27.1	27.5	4	14	5	39.4	39.8	-8	8	5*	5.4	3.9
-2	0	5*	5.5	5.8	-4	14	5*	12.6	12.8	-8	10	5	21.4	21.7
2	2	5	23.4	21.6	-4	16	5	43.1	42.6	-8	12	5*	6.3	6.8
-2	2	5*	8.7	2.9	-4	18	5	37.6	38.1	-8	14	5	19.3	18.6
2	4	5*	6.5	10.3	5	1	5*	5.7	1.2	-9	1	5*	11.4	13.1
-2	4	5*	.0	3.1	-5	1	5	21.2	20.6	-9	3	5	25.8	25.7
2	6	5*	4.9	3.6	5	3	5	14.5	13.8	-9	5	5	16.3	15.5
-2	6	5	21.0	19.9	-5	3	5*	5.4	4.3	-9	7	5	24.6	25.8
2	8	5	21.0	20.7	5	5	5	28.6	27.4	-9	9	5*	7.9	2.6
-2	8	5*	8.2	8.5	-5	5	5	18.8	18.3	-9	11	5*	16.7	16.0
2	10	5	37.6	36.9	5	7	5*	2.6	4.8	-10	0	5	19.8	19.9
-2	10	5	23.4	24.3	-5	7	5	15.3	16.2	-10	2	5	37.6	37.5
2	12	5*	11.2	13.0	5	9	5*	13.1	12.7	-10	4	5*	14.5	14.4

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
-10	6	5	87.4	87.2	3	3	6*	11.3	9.7	-8	0	6	35.9	33.8
-10	8	5*	21.0	20.0	-3	3	6	52.3	53.0	-8	2	6*	1.5	6.5
-10	10	5*	12.5	13.1	3	5	6	44.9	44.4	-8	4	6	43.4	44.4
-11	1	5*	9.5	10.3	-3	5	6	19.4	19.9	-8	6	6	17.6	17.2
-11	3	5	14.3	13.8	3	7	6*	6.6	4.0	-8	8	6*	9.9	6.6
-11	5	5	21.3	21.9	-3	7	6	28.0	28.6	-8	10	6*	.0	4.6
0	0	6*	7.2	8.0	3	9	6	24.2	25.6	-9	1	6	52.5	51.7
0	2	6*	7.7	10.1	-3	9	6	52.7	51.4	-9	3	6	49.1	49.1
0	4	6	24.9	24.3	-3	11	6	107.1	106.5	-9	5	6*	11.9	5.9
0	6	6	19.7	19.4	-3	13	6	24.7	25.3	-9	7	6	17.3	17.0
0	8	6	36.6	35.1	4	0	6	105.2	105.2	-10	0	6	104.7	105.6
0	10	6*	11.8	14.9	-4	0	6	23.6	22.2	-10	2	6*	11.4	9.2
0	12	6	25.2	25.2	4	2	6	29.4	27.6	0	0	7*	15.1	9.7
0	14	6	15.6	12.3	-4	2	6	24.1	24.0	0	2	7	23.6	23.6
1	1	6	69.3	69.2	4	4	6	32.7	30.5	0	4	7*	5.2	.3
-1	1	6	13.7	13.7	-4	4	6	12.6	11.1	0	6	7*	13.7	12.3
1	3	6	52.1	52.2	4	6	6	35.4	35.2	1	1	7*	.0	4.1
-1	3	6*	4.9	5.8	-4	6	6*	12.1	10.4	-1	1	7*	9.4	9.4
1	5	6*	5.4	3.1	4	8	6	40.1	41.2	1	3	7	35.2	35.3
-1	5	6*	2.8	4.3	-4	8	6	15.7	16.9	-1	3	7	39.3	40.5
1	7	6	20.0	20.1	-4	10	6*	8.7	.9	-1	5	7	59.6	60.0
-1	7	6	15.1	16.3	-4	12	6	38.0	36.7	-1	7	7	26.0	25.4
1	9	6	35.6	36.0	-4	14	6	17.4	18.8	-2	0	7	21.4	21.8
-1	9	6	28.3	28.9	5	1	6	60.6	59.9	-2	2	7	53.9	55.0
1	11	6	83.3	83.3	-5	1	6	18.7	16.6	-2	4	7*	4.3	1.0
-1	11	6*	9.5	8.6	5	3	6	51.9	52.4	-2	6	7	99.9	98.5
1	13	6	19.4	20.1	-5	3	6	15.2	13.3	-2	8	7	36.5	36.9
-1	13	6	33.8	33.4	-5	5	6	31.8	31.5	-3	1	7	19.2	20.2
2	0	6*	16.5	15.4	-5	7	6*	10.5	7.7	-3	3	7*	11.1	8.1
-2	0	6	148.7	149.0	-5	9	6	27.8	27.9	-3	5	7*	9.9	6.1
2	2	6*	.0	1.3	-5	11	6	49.5	49.5	-3	7	7	22.7	22.9
-2	2	6	13.3	14.7	-5	13	6*	5.9	1.8	-4	0	7	18.4	17.4
2	4	6	25.6	26.1	-6	0	6	79.9	79.3	-4	2	7*	10.5	10.3
-2	4	6	17.9	16.5	-6	2	6	18.3	18.1	-4	4	7*	10.1	4.7
2	6	6*	.0	4.4	-6	4	6	46.0	45.9	-4	6	7	22.0	21.4
-2	6	6*	.0	2.0	-6	6	6	12.5	14.0	-4	8	7*	6.4	7.0
2	8	6*	3.9	9.2	-6	8	6	80.8	82.5	-5	1	7*	6.8	8.7

-2	8	6	47.8	47.3	-6	10	6	23.6	22.9	-5	3	7	40.6	41.9
2	10	6	15.9	16.5	-6	12	6	61.0	62.1	-5	5	7	67.8	66.9
-2	10	6	37.0	37.9	-7	1	6*	9.9	8.4	-5	7	7	31.2	30.7
2	12	6	28.1	28.5	-7	3	6	16.1	16.0	-6	0	7*	9.3	8.8
-2	12	6	113.7	113.0	-7	5	6*	6.4	5.2	-6	2	7*	6.6	9.1
-2	14	6	35.6	36.9	-7	7	6*	10.2	9.3	-6	4	7*	6.7	4.1
3	1	6	44.5	44.9	-7	9	6*	8.4	9.3	-7	1	7*	11.1	12.5
-3	1	6	67.8	67.8	-7	11	6*	13.8	10.4					

Crystal P(2)

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	4	0	147.1	146.6	4	6	0*	7.4	8.2	8	12	0	41.4	41.4
0	6	0	41.1	41.1	4	8	0	165.4	165.5	8	14	0	26.8	26.8
0	8	0*	7.9	3.3	4	10	0	40.1	41.4	8	16	0	31.2	29.7
0	10	0	108.1	108.4	4	12	0	71.4	71.3	8	18	0	26.8	27.0
0	12	0	251.7	250.2	4	14	0	22.8	22.9	9	1	0	41.8	41.3
0	14	0	83.0	81.1	4	16	0	42.3	43.2	9	3	0	18.7	18.9
0	16	0	35.9	37.1	4	18	0	18.0	19.1	9	5	0	37.4	36.4
0	18	0*	.0	4.4	4	20	0	48.4	47.4	9	7	0	34.5	34.4
0	20	0	68.1	68.1	4	22	0	47.4	47.9	9	9	0*	13.2	10.6
0	22	0	96.0	96.2	5	1	0	79.3	76.2	9	11	0	30.5	32.2
0	24	0	104.5	103.8	5	3	0	27.0	26.8	9	13	0	23.4	21.7
1	3	0	56.4	53.4	5	5	0	30.8	30.1	9	15	0	21.1	17.6
1	5	0	53.6	53.9	5	7	0*	10.6	7.4	9	17	0	44.2	45.3
1	7	0	72.7	72.0	5	9	0*	6.4	6.9	10	0	0	107.0	105.9
1	9	0	79.3	78.3	5	11	0	49.1	50.0	10	2	0	26.8	26.7
1	11	0	131.7	130.6	5	13	0	58.1	58.0	10	4	0	23.9	23.2
1	13	0*	10.9	7.5	5	15	0	52.0	52.6	10	6	0	25.4	24.7
1	15	0	36.5	37.3	5	17	0	15.1	15.3	10	8	0	96.5	96.1
1	17	0*	4.9	4.9	5	19	0*	13.2	15.5	10	10	0	29.7	29.1
1	19	0	30.7	30.4	5	21	0*	15.4	16.8	10	12	0	106.0	107.2
1	21	0	25.5	23.9	5	23	0	39.0	41.5	10	14	0	46.6	46.4
1	23	0	24.4	26.4	6	0	0	130.2	126.3	10	16	0	27.0	26.5
2	0	0	29.2	32.5	6	2	0	40.8	41.0	11	1	0	61.7	61.1
2	2	0	28.9	28.9	6	4	0	35.9	34.2	11	3	0	33.4	36.3
2	4	0	77.4	76.1	6	6	0	50.9	51.7	11	5	0	28.7	26.5
2	6	0	30.6	30.7	6	8	0*	.0	5.7	11	7	0	20.5	21.4
2	8	0	23.1	22.6	6	10	0*	13.8	11.7	11	9	0*	.0	3.6

2	10	0	17.5	17.9	6	12	0*	11.7	12.9	11	11	0	56.3	54.1
2	12	0*	13.7	12.7	6	14	0	34.5	35.5	11	13	0*	4.7	2.8
2	14	0*	12.1	9.9	6	16	0	49.9	50.8	12	0	0	30.7	29.9
2	16	0	42.6	42.2	6	18	0	17.4	14.8	12	2	0*	12.0	6.8
2	18	0*	.0	2.8	6	20	0	39.6	38.3	12	4	0*	10.7	13.9
2	20	0*	9.7	10.4	6	22	0	24.3	23.7	12	6	0*	13.4	13.1
2	22	0	17.2	15.2	7	1	0	101.8	102.8	12	8	0*	.0	9.3
2	24	0	45.4	44.7	7	3	0	80.2	81.3	12	10	0	17.3	14.2
3	1	0	181.7	180.5	7	5	0	34.5	35.0	13	1	0*	14.7	14.5
3	3	0	151.4	149.2	7	7	0	65.2	64.9	13	3	0	24.1	25.0
3	5	0	34.0	33.3	7	9	0	94.9	94.6	0	0	1	57.5	56.4
3	7	0	22.6	23.2	7	11	0	173.0	172.4	0	2	1	85.8	85.7
3	9	0	26.2	28.1	7	13	0	52.2	52.4	0	4	1*	6.4	3.6
3	11	0	102.9	106.1	7	15	0	79.6	79.6	0	6	1	140.5	138.2
3	13	0*	8.3	7.4	7	17	0*	.0	3.2	0	8	1	45.8	46.8
3	15	0	16.7	18.0	7	19	0	47.1	45.5	0	10	1	20.0	22.2
3	17	0	39.9	40.1	7	21	0*	12.1	5.9	0	12	1	15.8	16.1
3	19	0	58.2	59.9	8	0	0	110.8	112.0	0	14	1	55.4	55.5
3	21	0*	14.0	14.3	8	2	0	23.0	23.6	0	16	1	55.3	55.2
3	23	0	75.1	76.2	8	4	0*	5.8	4.5	0	18	1	21.1	22.5
4	0	0	29.6	30.2	8	6	0	16.7	16.8	0	20	1	26.8	25.3
4	2	0	12.5	13.5	8	8	0*	8.4	3.1	0	22	1	24.1	24.5
4	4	0	23.3	24.7	8	10	0	21.7	22.6	0	24	1	17.1	14.3

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

1	1	1	43.2	42.7	3	1	1	31.6	31.1	5	3	1	18.0	19.2
-1	1	1	46.2	47.8	-3	1	1	44.1	41.8	-5	3	1	63.5	64.4
1	3	1	174.9	174.4	3	3	1	43.6	45.6	5	5	1	100.6	100.6
-1	3	1	32.6	34.6	-3	3	1	136.5	134.1	-5	5	1	52.4	54.0
1	5	1	236.0	235.9	3	5	1	117.1	117.9	5	7	1	52.1	50.6
-1	5	1	90.5	90.4	-3	5	1	135.3	133.3	-5	7	1*	6.3	2.3
1	7	1	97.1	96.7	3	7	1	30.0	31.3	5	9	1*	3.2	3.5
-1	7	1	100.9	101.3	-3	7	1	56.7	56.0	-5	9	1	24.9	25.8
1	9	1	129.4	129.5	3	9	1	30.5	31.1	5	11	1*	.0	4.6
-1	9	1	64.6	63.5	-3	9	1	100.3	100.8	-5	11	1	40.1	41.5
1	11	1	21.6	22.0	3	11	1	43.1	42.7	5	13	1	27.1	27.4
-1	11	1	40.0	39.6	-3	11	1	14.9	11.7	-5	13	1	24.3	25.0

1	13	1	84.2	86.4	3	13	1*	.0	1.8	5	15	1	20.1	19.4
-1	13	1*	5.7	2.4	-3	13	1	61.0	63.2	-5	15	1*	13.3	9.7
1	15	1	53.6	55.5	3	15	1*	14.1	14.1	5	17	1	63.2	62.9
-1	15	1	15.2	14.1	-3	15	1	32.7	32.6	-5	17	1	32.1	33.2
1	17	1	158.1	157.6	3	17	1	38.0	37.5	5	19	1*	10.9	5.9
-1	17	1	48.4	49.2	-3	17	1	96.0	94.7	-5	19	1	25.6	27.0
1	19	1*	15.8	12.7	3	19	1	28.6	30.4	5	21	1	19.9	15.5
-1	19	1	43.7	43.0	-3	19	1*	12.9	11.8	-5	21	1*	8.6	1.7
1	21	1	57.1	57.3	3	21	1	14.4	17.7	-5	23	1	16.9	16.0
-1	21	1	57.9	59.4	-3	21	1	22.5	21.9	6	0	1	18.8	18.3
1	23	1*	12.5	2.8	3	23	1	28.5	26.9	-6	0	1	21.2	21.5
-1	23	1*	9.1	9.0	-3	23	1*	8.7	8.1	6	2	1*	2.9	2.8
2	0	1	27.8	27.6	4	0	1*	9.3	8.0	-6	2	1	85.0	85.8
-2	0	1	64.2	64.0	-4	0	1	33.4	32.9	6	4	1*	7.8	4.0
2	2	1	55.6	57.4	4	2	1	116.6	116.9	-6	4	1*	8.6	8.0
-2	2	1	103.6	103.0	-4	2	1	53.6	52.8	6	6	1	97.7	96.8
2	4	1*	9.7	5.2	4	4	1*	7.8	8.2	-6	6	1	285.0	289.7
-2	4	1*	6.1	2.3	-4	4	1	22.3	22.3	6	8	1*	12.3	9.4
2	6	1	178.6	181.5	4	6	1	224.8	226.9	-6	8	1	76.9	78.3
-2	6	1	12.2	11.1	-4	6	1	43.2	43.5	6	10	1	23.0	23.9
2	8	1	42.4	42.8	4	8	1	76.3	76.1	-6	10	1	37.6	37.6
-2	8	1	19.8	20.4	-4	8	1	15.7	14.0	6	12	1*	9.5	12.4
2	10	1	66.5	67.7	4	10	1	38.9	38.9	-6	12	1*	7.7	5.1
-2	10	1	12.9	12.7	-4	10	1	71.4	72.9	6	14	1*	9.8	6.3
2	12	1*	5.8	1.7	4	12	1*	2.4	1.9	-6	14	1	64.4	65.3
-2	12	1	19.4	18.8	-4	12	1	12.3	14.8	6	16	1*	7.9	1.9
2	14	1*	15.7	16.3	4	14	1	108.3	109.9	-6	16	1	73.3	74.0
-2	14	1	94.6	95.7	-4	14	1*	.0	5.0	6	18	1	82.2	81.8
2	16	1	47.3	46.2	4	16	1	69.4	70.8	-6	18	1	109.1	108.1
-2	16	1	42.2	44.0	-4	16	1	29.5	30.4	6	20	1	22.1	20.1
2	18	1	22.8	20.7	4	18	1	106.0	107.3	-6	20	1	63.8	63.4
-2	18	1*	9.9	10.8	-4	18	1*	10.5	8.7	-6	22	1	17.5	17.4
2	20	1	14.7	15.1	4	20	1	54.7	54.6	7	1	1	16.4	14.0
-2	20	1*	11.3	9.8	-4	20	1*	8.6	10.4	-7	1	1*	.0	4.7
2	22	1	50.7	48.9	4	22	1*	14.5	16.3	7	3	1	70.9	70.5
-2	22	1*	5.5	4.8	-4	22	1	37.5	38.2	-7	3	1	23.3	24.7
2	24	1*	17.0	14.7	5	1	1*	1.7	4.8	7	5	1	42.1	42.9
-2	24	1*	14.5	15.2	-5	1	1	25.8	26.1	-7	5	1	128.8	131.9

H K L			/FO/			/FC/			H K L			/FO/			/FC/			H K L			/FO/			/FC/		
7	7	1*	1.2	1.7	9	15	1*	.0	6.7	0	6	2	21.3	21.8												
-7	7	1	54.4	55.2	-9	15	1	20.6	19.0	0	8	2	15.7	13.1												
7	9	1	41.0	40.1	9	17	1*	4.5	6.0	0	10	2*	9.1	4.4												
-7	9	1	23.3	23.9	-9	17	1	50.1	49.0	0	12	2	139.5	138.2												
7	11	1	39.8	39.8	10	0	1	44.3	45.6	0	14	2*	5.8	7.2												
-7	11	1	19.2	20.2	-10	0	1*	.0	2.9	0	16	2	52.3	51.7												
7	13	1	33.9	33.7	10	2	1*	7.9	3.2	0	18	2*	6.7	3.7												
-7	13	1	30.9	31.4	-10	2	1	56.5	56.6	0	20	2	21.2	22.4												
7	15	1	41.8	41.8	10	4	1	25.8	26.2	0	22	2*	1.9	3.5												
-7	15	1*	4.6	5.3	-10	4	1	22.8	22.8	0	24	2	60.5	59.8												
7	17	1	44.4	45.2	10	6	1	48.4	48.1	1	1	2	14.5	12.3												
-7	17	1	88.1	88.2	-10	6	1	68.1	68.5	-1	1	2	37.4	36.2												
7	19	1*	11.5	11.2	10	8	1	45.4	45.3	1	3	2	13.8	13.0												
-7	19	1*	.0	8.0	-10	8	1*	12.4	13.3	-1	3	2	38.6	37.7												
-7	21	1*	10.4	3.9	10	10	1	31.7	31.3	1	5	2	86.7	84.8												
8	0	1	19.5	19.7	-10	10	1	21.3	19.4	-1	5	2	11.4	7.9												
-8	0	1	22.4	21.5	10	12	1	24.8	24.2	1	7	2	62.0	60.4												
8	2	1	57.8	58.1	-10	12	1*	7.7	3.1	-1	7	2*	6.0	4.2												
-8	2	1*	2.6	2.9	10	14	1	24.7	25.3	1	9	2	102.7	102.3												
8	4	1*	3.7	7.5	-10	14	1	64.5	61.5	-1	9	2	14.0	14.4												
-8	4	1	18.1	16.9	-10	16	1	44.6	44.8	1	11	2	138.4	138.8												
8	6	1	116.0	118.7	11	1	1*	.0	4.1	-1	11	2	41.5	42.5												
-8	6	1	30.1	30.4	-11	1	1*	8.0	4.4	1	13	2	36.6	37.6												
8	8	1	22.9	22.0	11	3	1	62.3	63.3	-1	13	2	23.8	24.8												
-8	8	1	16.5	16.5	-11	3	1*	.0	2.0	1	15	2	45.6	46.5												
8	10	1	19.9	21.9	11	5	1	115.2	113.1	-1	15	2	14.5	11.6												
-8	10	1	21.9	24.2	-11	5	1	30.1	28.7	1	17	2*	.0	7.2												
8	12	1*	2.9	4.7	11	7	1	64.5	65.0	-1	17	2	20.2	19.5												
-8	12	1*	.0	1.7	-11	7	1	27.9	28.8	1	19	2	32.2	32.0												
8	14	1	51.0	51.2	11	9	1	58.0	58.6	-1	19	2	32.7	32.5												
-8	14	1*	10.5	11.5	-11	9	1	23.6	21.7	1	21	2*	10.0	6.6												
8	16	1	52.6	52.0	11	11	1*	14.9	16.9	-1	21	2*	10.8	11.1												
-8	16	1*	7.0	13.8	-11	11	1*	.0	2.9	1	23	2	46.0	46.3												
8	18	1	45.0	44.7	-11	13	1	19.8	18.9	-1	23	2*	16.2	13.7												
-8	18	1	42.2	40.9	12	0	1	22.6	23.1	2	0	2	170.0	172.3												
-8	20	1*	.0	5.1	-12	0	1	40.1	38.4	-2	0	2	290.7	285.7												
9	1	1*	5.6	1.0	12	2	1	21.5	21.5	2	2	2	36.4	36.8												

-9 1 1* 10.3 11.1 -12 2 1* 4.8 3.1 -2 2 2 19.1 19.3
9 3 1* .0 3.2 12 4 1 25.1 26.0 2 4 2 108.1 108.1
-9 3 1 57.4 57.6 -12 4 1 19.4 16.9 -2 4 2 34.9 32.4
9 5 1* 9.1 7.0 12 6 1 53.5 52.5 2 6 2 13.3 14.0
-9 5 1 76.3 75.8 -12 6 1 20.4 17.6 -2 6 2 33.8 32.6
9 7 1 23.3 22.2 -12 8 1 35.1 36.1 2 8 2 82.0 81.7
-9 7 1 26.8 24.9 -12 10 1 22.6 21.5 -2 8 2 143.3 142.7
9 9 1* 10.1 2.5 -13 1 1* 7.4 4.0 2 10 2 37.6 37.3
-9 9 1 47.1 47.1 -13 3 1 50.9 51.0 -2 10 2 79.4 79.0
9 11 1 17.7 17.1 -13 5 1 79.7 79.5 2 12 2 63.5 62.5
-9 11 1 26.3 27.2 0 0 2 116.5 115.5 -2 12 2 244.4 243.5
9 13 1* 15.6 13.3 0 2 2 20.4 19.3 2 14 2 42.4 40.8
-9 13 1 15.8 13.2 0 4 2 48.1 46.3 -2 14 2 56.5 55.5

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

2 16 2* 5.5 1.5 -4 16 2 56.5 56.8 -6 20 2 65.2 64.4
-2 16 2 29.4 26.8 4 18 2* 13.4 6.3 7 1 2 21.0 21.7
2 18 2 15.1 15.9 -4 18 2* .0 2.7 -7 1 2 61.9 61.6
-2 18 2* .0 8.6 4 20 2* .0 2.0 7 3 2 31.2 31.3
2 20 2 66.4 66.8 -4 20 2 17.8 19.3 -7 3 2 35.3 37.3
-2 20 2 37.1 36.2 4 22 2 34.2 36.0 7 5 2 59.5 60.1
2 22 2 52.1 51.4 -4 22 2 22.9 23.9 -7 5 2 33.6 32.9
-2 22 2 82.5 82.2 5 1 2 200.0 199.8 7 7 2* 9.2 3.8
-2 24 2 56.2 56.1 -5 1 2 115.9 116.7 -7 7 2* 3.6 6.8
3 1 2* 1.4 2.0 5 3 2 136.6 138.2 7 9 2* 12.4 9.3
-3 1 2 133.7 131.1 -5 3 2 87.0 89.4 -7 9 2* 13.2 1.9
3 3 2 26.9 25.9 5 5 2 16.1 15.9 7 11 2 23.2 23.9
-3 3 2 129.8 129.2 -5 5 2 45.0 45.1 -7 11 2 22.4 22.5
3 5 2 16.9 19.3 5 7 2 15.3 15.2 7 13 2* 8.8 9.9
-3 5 2 42.0 40.4 -5 7 2 54.0 54.9 -7 13 2 39.1 40.4
3 7 2 17.8 17.3 5 9 2 44.7 45.8 7 15 2* 13.4 17.9
-3 7 2* 3.5 3.9 -5 9 2 98.1 99.0 -7 15 2 35.9 36.1
3 9 2* 5.7 8.9 5 11 2 169.7 169.9 7 17 2 19.1 17.2
-3 9 2* 13.9 7.1 -5 11 2 181.1 182.5 -7 17 2* 7.7 7.7
3 11 2* 10.1 11.2 5 13 2 34.5 35.5 7 19 2* 10.2 8.0
-3 11 2 62.4 60.6 -5 13 2 47.2 47.0 -7 19 2* 1.6 3.3
3 13 2 53.4 53.2 5 15 2 57.9 56.6 -7 21 2 20.7 20.8
-3 13 2 32.2 33.5 -5 15 2 73.2 72.9 8 0 2 121.9 120.6

3	15	2	32.6	33.8	5	17	2	27.4	26.9	-8	0	2*	12.6	3.3
-3	15	2*	3.5	4.4	-5	17	2*	9.1	11.2	8	2	2*	14.8	14.6
3	17	2	29.8	29.4	5	19	2	60.7	61.0	-8	2	2	19.7	19.8
-3	17	2	25.7	26.6	-5	19	2	39.7	39.1	8	4	2	74.7	73.6
3	19	2	20.5	21.3	5	21	2*	.0	1.9	-8	4	2*	8.8	9.4
-3	19	2	49.2	49.4	-5	21	2*	14.6	7.8	8	6	2	34.7	35.3
3	21	2*	11.4	12.5	6	0	2	84.3	85.2	-8	6	2	48.4	49.0
-3	21	2*	11.6	5.9	-6	0	2	184.4	187.4	8	8	2	48.0	48.8
3	23	2*	24.5	18.3	6	2	2*	10.2	8.7	-8	8	2	56.0	56.9
-3	23	2	37.0	35.6	-6	2	2	15.7	15.1	8	10	2	31.2	30.0
4	0	2	120.3	122.6	6	4	2*	4.9	7.2	-8	10	2*	9.4	9.3
-4	0	2	137.8	139.6	-6	4	2	111.8	112.2	8	12	2	39.0	37.3
4	2	2	55.6	54.9	6	6	2	21.6	24.0	-8	12	2*	12.4	12.4
-4	2	2	29.1	29.0	-6	6	2*	.0	2.6	8	14	2	28.8	28.3
4	4	2	66.9	65.6	6	8	2	18.6	18.7	-8	14	2*	10.6	12.2
-4	4	2	72.3	73.1	-6	8	2	49.0	49.7	8	16	2*	12.8	7.1
4	6	2	41.7	42.7	6	10	2	34.9	35.9	-8	16	2*	8.8	10.4
-4	6	2	30.1	30.9	-6	10	2	47.1	48.3	-8	18	2*	8.6	11.9
4	8	2	69.6	69.1	6	12	2	38.1	35.2	9	1	2	22.9	26.1
-4	8	2	20.5	20.2	-6	12	2	48.7	48.8	-9	1	2	90.9	92.2
4	10	2	15.4	17.0	6	14	2	20.9	20.9	9	3	2	26.2	27.6
-4	10	2	28.2	29.5	-6	14	2	32.8	33.1	-9	3	2	97.4	97.8
4	12	2	119.6	119.9	6	16	2*	12.3	13.5	9	5	2*	13.3	13.8
-4	12	2	46.6	47.6	-6	16	2*	6.4	5.1	-9	5	2	28.6	26.6
4	14	2	52.3	52.4	6	18	2	25.9	25.8	9	7	2	41.8	42.1
-4	14	2	24.9	27.1	-6	18	2	19.2	18.4	-9	7	2	18.1	18.7
4	16	2	17.7	16.2	6	20	2*	3.1	6.2	9	9	2	25.5	25.8

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-9	9	2	37.0	37.4	0	12	3*	4.4	6.3	2	22	3*	.0	3.5
9	11	2	49.9	48.8	0	14	3*	.0	6.2	-2	22	3*	13.8	11.3
-9	11	2	71.4	72.2	0	16	3	35.2	34.5	3	1	3*	9.1	5.3
9	13	2*	10.3	1.5	0	18	3*	10.7	2.3	-3	1	3	34.2	34.8
-9	13	2*	.0	1.6	0	20	3*	8.4	8.0	3	3	3	22.4	23.1
9	15	2*	14.9	15.8	0	22	3	36.0	36.3	-3	3	3*	10.9	11.1
-9	15	2	26.5	29.0	1	1	3	38.7	38.5	3	5	3	55.8	56.0
-9	17	2*	14.6	16.7	-1	1	3	29.5	28.0	-3	5	3	11.3	8.2
10	0	2	46.0	46.7	1	3	3*	9.5	8.2	3	7	3*	11.2	10.9

-10	0	2*	12.8	13.1	-1	3	3	130.3	128.7	-3	7	3	28.9	28.4
10	2	2*	10.2	5.2	1	5	3	27.9	29.7	3	9	3*	5.4	6.8
-10	2	2*	.0	9.9	-1	5	3	232.2	230.6	-3	9	3	19.9	19.1
10	4	2	41.2	43.5	1	7	3*	10.2	13.3	3	11	3*	12.5	12.7
-10	4	2	35.6	34.7	-1	7	3	118.0	118.7	-3	11	3	33.5	32.2
10	6	2	20.2	20.4	1	9	3	28.9	29.0	3	13	3	32.5	31.8
-10	6	2*	18.8	9.6	-1	9	3	119.8	121.6	-3	13	3*	12.7	2.0
10	8	2*	2.9	4.5	1	11	3	48.9	48.5	3	15	3*	7.7	3.9
-10	8	2	19.8	20.4	-1	11	3*	9.7	5.8	-3	15	3	19.6	19.7
10	10	2*	3.8	1.2	1	13	3*	3.3	6.5	3	17	3	42.4	40.3
-10	10	2	19.2	15.8	-1	13	3	54.9	55.7	-3	17	3*	10.4	11.4
10	12	2	25.1	24.7	1	15	3*	1.4	8.6	3	19	3*	1.4	5.2
-10	12	2	24.8	25.6	-1	15	3	24.1	24.5	-3	19	3	38.4	39.0
-10	14	2*	9.8	10.1	1	17	3	18.8	18.2	3	21	3*	13.7	13.7
-10	16	2*	12.5	14.3	-1	17	3	143.3	142.7	-3	21	3	38.0	38.8
11	1	2	24.8	25.6	1	19	3	15.7	14.4	4	0	3	38.1	39.6
-11	1	2*	3.8	6.9	-1	19	3*	6.3	2.8	-4	0	3	32.1	33.1
11	3	2	60.4	61.7	1	21	3	22.3	25.5	4	2	3	16.9	15.9
-11	3	2*	17.0	8.0	-1	21	3	44.3	44.6	-4	2	3	81.6	83.8
11	5	2	24.5	23.7	2	0	3	21.5	21.0	4	4	3	19.2	16.7
-11	5	2	46.7	46.9	-2	0	3	26.0	23.1	-4	4	3*	5.8	2.8
11	7	2	23.7	20.5	2	2	3	123.5	121.4	4	6	3	75.6	76.3
-11	7	2	16.2	17.9	-2	2	3	32.8	32.7	-4	6	3	79.7	82.0
-11	9	2*	11.6	11.7	2	4	3*	6.1	2.3	4	8	3*	11.7	9.5
-11	11	2	22.9	22.5	-2	4	3*	4.1	3.7	-4	8	3	43.9	45.0
-11	13	2*	13.5	11.7	2	6	3	117.7	120.7	4	10	3	48.7	48.4
-12	0	2	150.0	148.7	-2	6	3	190.0	188.2	-4	10	3	28.4	30.5
-12	2	2	35.5	34.7	2	8	3	43.7	43.6	4	12	3	17.9	17.1
-12	4	2	54.0	56.0	-2	8	3	59.8	60.5	-4	12	3	17.1	16.9
-12	6	2*	14.9	18.0	2	10	3	65.4	65.7	4	14	3*	12.0	11.8
-12	8	2	42.2	41.4	-2	10	3	18.1	19.3	-4	14	3	67.3	68.8
-12	10	2	21.1	18.1	2	12	3*	4.5	1.6	4	16	3*	5.3	1.8
-13	1	2	49.7	49.4	-2	12	3*	4.9	5.7	-4	16	3	38.8	38.9
-13	3	2	19.4	13.9	2	14	3	88.9	89.5	4	18	3	55.1	55.4
-13	5	2*	5.7	6.2	-2	14	3	53.7	54.2	-4	18	3*	13.2	14.6
0	0	3*	8.4	3.2	2	16	3	53.4	54.7	4	20	3*	12.9	14.8
0	2	3	26.1	22.0	-2	16	3	56.0	55.1	-4	20	3	24.7	23.3
0	4	3*	8.7	6.5	2	18	3	36.5	36.8	-4	22	3*	.0	8.1
0	6	3	79.7	79.2	-2	18	3	76.8	78.3	5	1	3*	14.6	12.1

0 8 3 27.3 27.9 2 20 3 35.5 33.7 -5 1 3 21.8 22.1
0 10 3 40.0 42.2 -2 20 3 38.4 38.3 5 3 3 90.8 91.8

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-5 3 3 84.2 85.8 -7 11 3 26.6 26.1 -10 10 3 25.8 27.2
5 5 3 66.6 66.8 7 13 3 21.2 17.7 -10 12 3* 11.4 8.7
-5 5 3 94.9 95.1 -7 13 3 18.3 13.6 -10 14 3* 14.6 3.8
5 7 3 20.0 18.7 7 15 3* 16.0 15.7 -11 1 3* 14.4 18.2
-5 7 3 35.0 34.1 -7 15 3* 5.5 12.7 -11 3 3 55.8 56.3
5 9 3 69.6 69.1 -7 17 3* 14.6 11.5 -11 5 3 82.6 80.5
-5 9 3 54.3 55.7 -7 19 3 31.8 30.7 -11 7 3 37.5 38.6
5 11 3 30.3 28.7 8 0 3 33.4 33.6 -11 9 3 39.8 39.9
-5 11 3* 9.6 9.7 -8 0 3 34.6 32.1 -11 11 3 29.8 30.9
5 13 3 25.6 24.7 8 2 3* 6.6 8.4 -11 13 3 20.3 20.8
-5 13 3 61.4 61.7 -8 2 3 48.6 48.4 -12 0 3* 6.4 2.0
5 15 3 32.7 31.5 8 4 3* 9.7 11.5 -12 2 3 53.9 52.9
-5 15 3 39.9 40.1 -8 4 3* 9.2 7.2 -12 4 3* 16.4 17.7
5 17 3 44.7 45.8 8 6 3 48.3 48.8 -12 6 3 80.9 80.4
-5 17 3 89.9 90.2 -8 6 3 169.5 171.7 -12 8 3 16.6 15.1
5 19 3 27.3 27.0 8 8 3 35.0 35.3 -13 1 3* 7.2 5.5
-5 19 3* 8.1 6.2 -8 8 3 38.9 38.5 -13 3 3* 10.2 8.0
-5 21 3 27.1 24.2 8 10 3* 10.9 11.8 0 0 4 205.8 204.6
6 0 3* 7.9 6.9 -8 10 3* 1.2 3.1 0 2 4 37.1 36.5
-6 0 3 32.4 32.1 8 12 3* 15.5 17.8 0 4 4 37.0 37.4
6 2 3 50.7 51.7 -8 12 3* 4.9 8.1 0 6 4* 3.2 7.0
-6 2 3 16.1 16.8 8 14 3* 10.5 9.2 0 8 4 77.3 76.9
6 4 3* 13.4 14.2 -8 14 3 63.5 63.1 0 10 4 41.4 40.5
-6 4 3* 11.9 9.0 -8 16 3 57.2 57.0 0 12 4 133.3 133.6
6 6 3 169.8 168.9 -8 18 3 92.0 92.6 0 14 4 54.5 54.1
-6 6 3 43.3 42.1 9 1 3* 4.3 6.6 0 16 4* 4.5 3.2
6 8 3 47.8 47.0 -9 1 3* 4.4 8.0 0 18 4* 11.5 13.6
-6 8 3 12.3 14.3 9 3 3 46.0 46.2 0 20 4 39.3 39.3
6 10 3 15.5 9.8 -9 3 3 31.1 31.3 1 1 4* 1.1 7.8
-6 10 3 30.3 32.8 9 5 3 102.1 102.3 -1 1 4 125.5 125.8
6 12 3* .0 1.1 -9 5 3 80.7 81.6 1 3 4* 12.5 14.1
-6 12 3* 1.9 7.6 9 7 3 50.3 47.9 -1 3 4 112.2 112.2
6 14 3 55.4 56.6 -9 7 3 40.7 39.6 1 5 4 42.6 43.9
-6 14 3* 6.4 5.5 9 9 3 46.8 47.4 -1 5 4* 8.1 3.5

6	16	3	51.9	52.7	-9	9	3	26.9	27.3	1	7	4	16.4	16.4
-6	16	3	20.2	19.8	9	11	3*	13.9	19.1	-1	7	4*	15.1	5.1
6	18	3	85.6	86.4	-9	11	3*	.0	2.2	1	9	4*	12.0	13.7
-6	18	3	54.3	55.0	-9	13	3	25.9	24.8	-1	9	4	39.1	39.2
-6	20	3	20.9	21.9	-9	15	3*	11.9	11.9	1	11	4	37.6	37.2
7	1	3*	.0	7.3	-9	17	3	53.7	55.4	-1	11	4	98.6	99.5
-7	1	3*	7.3	5.2	10	0	3*	10.5	8.0	1	13	4*	12.0	11.8
7	3	3*	13.2	4.9	-10	0	3*	9.6	8.1	-1	13	4*	8.2	1.2
-7	3	3	29.9	31.2	10	2	3	20.2	20.5	1	15	4*	10.5	3.3
7	5	3	30.9	30.0	-10	2	3*	12.2	8.1	-1	15	4	26.7	27.7
-7	5	3*	8.4	4.5	10	4	3	18.5	22.4	1	17	4*	7.8	7.1
7	7	3*	3.9	3.5	-10	4	3*	1.1	5.6	-1	17	4	37.9	36.1
-7	7	3	37.4	38.0	10	6	3	22.4	24.6	1	19	4*	6.2	6.7
7	9	3*	9.8	6.9	-10	6	3	16.1	16.4	-1	19	4	51.3	50.3
-7	9	3	14.6	15.1	10	8	3*	14.7	12.5	-1	21	4*	9.4	13.0
7	11	3*	15.3	14.2	-10	8	3	35.2	34.6	2	0	4	159.7	159.6

H K L /FO/ /FC/ H K L /FO/ /FC/ H K L /FO/ /FC/

-2	0	4	125.9	126.6	-4	8	4	69.5	68.6	-7	1	4	114.5	116.2
2	2	4	28.4	28.4	4	10	4	28.4	27.6	7	3	4	45.6	45.9
-2	2	4	30.2	30.1	-4	10	4	45.4	44.9	-7	3	4	99.1	99.9
2	4	4	27.7	27.7	4	12	4*	12.8	3.5	7	5	4*	5.1	5.6
-2	4	4	45.9	47.0	-4	12	4	76.9	76.3	-7	5	4*	7.1	2.5
2	6	4	22.2	22.9	4	14	4*	8.0	4.4	7	7	4	34.2	34.5
-2	6	4	18.0	18.3	-4	14	4	29.1	32.5	-7	7	4	18.8	19.2
2	8	4	15.2	13.6	4	16	4*	.0	3.8	7	9	4	35.8	38.0
-2	8	4	51.9	54.5	-4	16	4*	.0	3.6	-7	9	4	49.4	49.9
2	10	4	22.2	23.6	4	18	4	21.7	21.2	7	11	4	53.4	53.9
-2	10	4*	12.3	10.7	-4	18	4*	11.1	6.3	-7	11	4	122.1	122.0
2	12	4	40.2	40.3	-4	20	4	64.8	65.8	7	13	4*	.0	4.4
-2	12	4	52.4	52.9	5	1	4	15.3	14.6	-7	13	4	21.2	18.4
2	14	4	37.4	38.0	-5	1	4	17.9	18.9	-7	15	4	52.0	51.6
-2	14	4*	4.0	4.8	5	3	4*	11.5	8.8	-7	17	4	23.1	23.4
2	16	4	49.4	47.5	-5	3	4*	6.6	10.7	8	0	4	25.3	25.4
-2	16	4*	10.2	7.8	5	5	4*	7.8	13.6	-8	0	4	120.3	119.3
2	18	4*	4.3	1.7	-5	5	4	30.4	31.8	8	2	4*	17.5	16.8
-2	18	4*	2.5	3.5	5	7	4	30.7	33.3	-8	2	4	15.4	15.7

2	20	4	21.5	22.8	-5	7	4	37.8	39.3	8	4	4*	.0	8.8
-2	20	4*	.0	2.0	5	9	4	20.6	18.6	-8	4	4*	11.1	4.2
3	1	4	112.2	112.6	-5	9	4	34.2	32.9	8	6	4*	12.7	12.6
-3	1	4	17.1	15.7	5	11	4	39.4	39.2	-8	6	4*	11.7	2.8
3	3	4	63.2	63.4	-5	11	4	40.2	42.3	8	8	4	24.4	25.3
-3	3	4	18.2	17.4	5	13	4	53.5	52.1	-8	8	4	76.1	76.2
3	5	4*	11.0	11.2	-5	13	4*	10.2	2.2	8	10	4*	10.2	1.4
-3	5	4	20.9	21.8	5	15	4	42.0	43.7	-8	10	4	36.6	38.7
3	7	4	41.6	40.8	-5	15	4*	4.3	8.3	-8	12	4	115.7	116.0
-3	7	4*	5.0	5.7	5	17	4	34.3	35.5	-8	14	4	37.3	37.8
3	9	4	52.4	52.8	-5	17	4*	5.2	6.7	-8	16	4	21.0	20.4
-3	9	4	14.1	12.1	-5	19	4*	19.5	16.2	9	1	4	21.1	18.7
3	11	4	148.8	148.8	6	0	4	61.2	61.9	-9	1	4*	6.4	7.2
-3	11	4	23.2	22.6	-6	0	4	65.5	65.7	9	3	4	28.7	31.5
3	13	4	44.8	45.2	6	2	4	19.8	20.8	-9	3	4	16.3	11.5
-3	13	4	18.8	19.8	-6	2	4*	11.7	13.6	9	5	4	51.0	49.4
3	15	4	51.3	51.4	6	4	4	14.6	14.8	-9	5	4*	5.5	5.3
-3	15	4	20.8	19.7	-6	4	4	33.7	33.7	-9	7	4	17.8	17.9
3	17	4*	.0	5.3	6	6	4	43.2	44.2	-9	9	4*	14.0	14.6
-3	17	4	22.3	22.3	-6	6	4	21.7	23.1	-9	11	4*	10.5	6.2
3	19	4	39.4	37.9	6	8	4	78.9	79.7	-9	13	4	35.2	35.1
-3	19	4	23.4	25.1	-6	8	4	38.7	38.9	-9	15	4	33.4	29.8
4	0	4*	.0	6.0	6	10	4	17.2	19.1	-10	0	4	46.2	43.8
-4	0	4	173.6	172.9	-6	10	4*	8.1	13.8	-10	2	4*	14.2	15.5
4	2	4*	9.5	6.4	6	12	4	64.4	64.4	-10	4	4	18.5	18.0
-4	2	4	14.5	13.6	-6	12	4*	7.4	1.4	-10	6	4	34.0	35.8
4	4	4*	7.2	5.8	6	14	4	31.3	28.9	-10	8	4	38.6	38.0
-4	4	4	87.1	88.6	-6	14	4*	11.9	10.5	-10	10	4	16.7	16.4
4	6	4*	11.6	10.1	-6	16	4	60.3	60.4	-10	12	4*	21.2	17.9
-4	6	4	16.8	16.9	-6	18	4*	4.5	.3	-11	1	4	32.6	32.7
4	8	4	37.0	37.0	7	1	4	37.0	35.3	-11	3	4	40.6	41.3

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-11	5	4*	.0	5.2	2	14	5*	16.0	13.3	5	11	5*	11.1	3.8
-11	7	4	42.8	42.2	-2	14	5*	13.2	13.5	-5	11	5	32.3	32.3
-11	9	4	53.1	53.4	2	16	5*	7.7	8.8	-5	13	5*	.0	4.1
-11	11	4	71.7	72.1	-2	16	5*	15.7	15.5	-5	15	5*	13.0	10.2
-12	0	4*	13.4	12.1	-2	18	5	26.1	26.1	-5	17	5*	5.1	11.7

-12	2	4*	.8	4.2	3	1	5*	11.9	6.0	6	0	5	25.8	27.9
-12	4	4*	11.3	6.5	-3	1	5*	11.7	13.2	-6	0	5	25.9	22.5
-12	6	4*	6.0	1.7	3	3	5	65.9	65.7	6	2	5*	8.7	5.6
0	0	5	29.4	29.9	-3	3	5	68.5	67.8	-6	2	5	50.2	50.4
0	2	5	85.9	84.9	3	5	5	74.8	75.0	6	4	5*	6.1	.4
0	4	5*	3.4	1.1	-3	5	5	123.5	124.8	-6	4	5*	12.5	9.2
0	6	5	84.4	84.8	3	7	5	18.3	22.4	6	6	5*	6.3	5.1
0	8	5	38.2	38.2	-3	7	5	64.1	66.0	-6	6	5	108.4	109.0
0	10	5	30.3	32.9	3	9	5	54.9	55.6	6	8	5*	16.9	16.2
0	12	5*	10.1	12.6	-3	9	5	56.3	58.4	-6	8	5	43.5	43.2
0	14	5	91.3	89.9	3	11	5	36.0	33.3	6	10	5	17.2	18.2
0	16	5	39.0	38.4	-3	11	5*	11.1	9.3	-6	10	5*	11.2	13.5
0	18	5	42.5	42.2	3	13	5	30.9	29.3	-6	12	5*	9.4	3.0
1	1	5*	8.8	6.5	-3	13	5	47.3	47.2	-6	14	5	52.0	53.0
-1	1	5	27.9	28.7	3	15	5	32.2	32.0	-6	16	5	38.9	39.0
1	3	5	46.2	46.5	-3	15	5	21.1	21.3	7	1	5*	.0	1.0
-1	3	5*	7.3	3.8	-3	17	5	100.9	101.2	-7	1	5*	11.1	14.2
1	5	5	55.1	56.3	4	0	5*	4.4	2.3	7	3	5	47.0	48.1
-1	5	5*	8.2	8.2	-4	0	5*	3.0	4.2	-7	3	5	63.1	63.1
1	7	5	18.5	16.5	4	2	5	48.1	46.4	7	5	5	65.0	63.5
-1	7	5	22.9	23.8	-4	2	5	18.9	19.7	-7	5	5	108.2	108.1
1	9	5	30.3	30.6	4	4	5*	11.3	13.9	7	7	5	33.6	33.9
-1	9	5	22.5	21.8	-4	4	5*	10.0	6.6	-7	7	5	51.3	51.3
1	11	5*	9.9	10.7	4	6	5	152.3	152.6	-7	9	5	58.7	60.5
-1	11	5	25.3	26.4	-4	6	5	121.7	119.7	-7	11	5*	11.9	5.5
1	13	5	32.8	33.0	4	8	5	33.5	30.8	-7	13	5	28.8	28.9
-1	13	5*	2.3	7.9	-4	8	5	33.9	34.2	-7	15	5*	13.9	16.4
1	15	5	16.7	14.9	4	10	5*	13.8	18.9	-8	0	5*	13.7	15.3
-1	15	5*	16.3	15.0	-4	10	5*	.0	1.0	-8	2	5*	.0	1.3
1	17	5	44.0	45.5	4	12	5*	5.4	12.2	-8	4	5*	8.8	4.6
-1	17	5	20.3	18.5	-4	12	5*	10.5	3.4	-8	6	5	35.1	33.6
2	0	5	27.1	27.5	4	14	5	40.2	40.5	-8	8	5*	10.3	3.1
-2	0	5*	.0	6.7	-4	14	5*	13.8	13.0	-8	10	5	22.7	22.1
2	2	5	22.5	22.1	-4	16	5	41.5	41.4	-8	12	5*	3.9	7.2
-2	2	5*	8.4	2.0	-4	18	5	36.5	38.1	-8	14	5	18.9	19.0
2	4	5*	13.8	11.3	5	1	5*	.0	.9	-9	1	5*	15.5	13.4
-2	4	5*	.0	3.1	-5	1	5	20.5	20.8	-9	3	5	26.0	26.5
2	6	5*	5.2	3.4	5	3	5*	10.9	13.0	-9	5	5	15.6	15.0
-2	6	5	21.7	20.8	-5	3	5*	.0	3.7	-9	7	5	25.9	25.0

2 8 5 20.1 20.7 5 5 5 27.8 26.9 -9 9 5* 8.2 2.5
-2 8 5* 13.7 7.6 -5 5 5 19.3 18.1 -9 11 5* 13.3 16.7
2 10 5 37.7 37.5 5 7 5* 4.7 4.4 -10 0 5 20.5 20.2
-2 10 5 22.7 24.2 -5 7 5 16.1 15.3 -10 2 5 36.9 38.2
2 12 5* 13.1 13.2 5 9 5* 9.4 12.8 -10 4 5 16.6 15.7
-2 12 5* 9.3 1.3 -5 9 5 17.0 12.4 -10 6 5 89.9 88.2

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-10 8 5 20.9 20.3 -3 3 6 53.5 53.5 -8 0 6 36.9 34.0
-10 10 5* 9.2 13.3 3 5 6 44.2 45.1 -8 2 6* 3.7 6.2
-11 1 5* 9.9 10.1 -3 5 6 17.9 19.7 -8 4 6 42.4 44.1
-11 3 5* 14.5 14.0 3 7 6* 8.8 3.1 -8 6 6 16.8 17.5
-11 5 5 21.2 22.7 -3 7 6 29.8 28.8 -8 8 6* 12.2 8.2
0 0 6* 6.6 7.5 3 9 6 26.3 25.7 -8 10 6* 11.3 4.4
0 2 6* 9.3 8.9 -3 9 6 52.5 51.4 -9 1 6 53.6 53.1
0 4 6 24.8 24.3 -3 11 6 107.1 106.3 -9 3 6 50.8 49.9
0 6 6 20.9 20.0 -3 13 6 25.9 25.5 -9 5 6* .0 6.3
0 8 6 35.1 34.7 4 0 6 104.6 105.7 -9 7 6 15.3 16.6
0 10 6* 12.7 14.9 -4 0 6 22.9 22.1 -10 0 6 107.2 107.7
0 12 6 25.3 25.0 4 2 6 27.9 28.2 -10 2 6* 5.4 9.5
0 14 6* 12.5 10.7 -4 2 6 25.8 24.8 0 0 7* 10.9 8.7
1 1 6 69.6 68.6 4 4 6 30.6 29.8 0 2 7* 24.2 23.9
-1 1 6* 14.2 13.6 -4 4 6* 10.7 11.6 0 4 7* .0 1.4
1 3 6 51.8 52.5 4 6 6 35.2 35.7 0 6 7* 5.5 13.0
-1 3 6* 11.4 6.4 -4 6 6* 11.4 10.0 1 1 7* 6.5 3.0
1 5 6* .0 3.0 4 8 6 40.3 41.2 -1 1 7* 7.6 9.7
-1 5 6* 4.2 4.9 -4 8 6 16.7 16.7 1 3 7 35.8 35.9
1 7 6* 19.8 20.7 -4 10 6* 5.2 1.7 -1 3 7 39.6 41.7
-1 7 6 18.1 15.9 -4 12 6 36.7 36.9 -1 5 7 60.6 60.2
1 9 6 38.1 36.8 -4 14 6 18.7 19.3 -1 7 7 25.1 25.5
-1 9 6 25.6 27.6 5 1 6 60.9 60.4 -2 0 7 20.6 21.7
1 11 6 83.5 83.3 -5 1 6* 13.4 16.6 -2 2 7 56.5 54.5
-1 11 6* 14.9 9.2 5 3 6 53.7 53.4 -2 4 7* 13.1 .7
1 13 6* 15.5 19.6 -5 3 6 15.6 13.7 -2 6 7 99.4 99.1
-1 13 6 32.6 33.4 -5 5 6 31.5 32.6 -2 8 7 37.0 37.3
2 0 6* 18.2 15.2 -5 7 6* 11.5 8.4 -3 1 7 19.0 20.4
-2 0 6 149.0 149.4 -5 9 6 27.4 28.9 -3 3 7* 12.7 8.4
2 2 6* 8.4 1.2 -5 11 6 50.1 49.8 -3 5 7* 11.6 7.2

-2	2	6*	16.4	15.8	-5	13	6*	7.5	1.9	-3	7	7	22.3	23.1
2	4	6	24.3	25.7	-6	0	6	78.4	78.9	-4	0	7	23.4	19.2
-2	4	6	19.0	17.1	-6	2	6	16.3	17.5	-4	2	7*	11.6	10.5
2	6	6*	8.4	6.1	-6	4	6	46.0	46.5	-4	4	7*	6.6	3.9
-2	6	6*	11.8	2.0	-6	6	6*	11.0	14.9	-4	6	7	21.7	21.3
2	8	6*	12.4	9.1	-6	8	6	83.3	83.0	-4	8	7*	4.9	5.9
-2	8	6	48.5	48.5	-6	10	6	22.1	23.3	-5	1	7*	11.9	8.6
2	10	6*	16.4	16.4	-6	12	6	61.0	61.6	-5	3	7	40.7	41.5
-2	10	6	36.6	37.2	-7	1	6*	3.6	9.2	-5	5	7	68.7	67.6
2	12	6	27.7	28.8	-7	3	6	17.3	15.3	-5	7	7	32.8	30.9
-2	12	6	112.9	114.1	-7	5	6*	8.5	5.2	-6	0	7*	8.2	8.4
-2	14	6	38.4	38.3	-7	7	6*	19.9	9.9	-6	2	7*	13.0	9.9
3	1	6	43.5	45.3	-7	9	6*	12.2	10.3	-6	4	7*	.0	3.6
-3	1	6	68.5	68.2	-7	11	6*	14.1	10.3	-7	1	7*	12.5	12.7
3	3	6*	9.9	10.2										