AM-93-522

Reassignment of cation site-occupancies in tourmaline: Al-Mg disorder in the crystal structure of dravite

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For deposit: Tables 3 and 4

American Mineralogist, 78, 3-4, 265-270.

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orig.

Table 3

Structure Factor Tables for Dravite

for Deposit

TDVR in R3m

h	k	l	Fo	Fc	A	B	Phi	Del(F)	Sig*(F)
0	1	-10	42.85	42.69	3.95	-42.51	275.30	0.16	1.14
-2	2	-10	54.83	54.08	-23.12	48.88	115.31	0.76	1.47
-1	3	-10	30.96	30.11	12.13	27.56	66.25	0.85	0.82
0	0	-9	81.81	82.65	36.50	-74.15	296.21	-0.84	2.20
-1	2	-9	27.64	27.96	-11.39	-25.53	245.96	-0.32	0.73
-3	3	-9	43.94	43.57	38.49	20.41	27.94	0.37	1.18
0	3	-9	84.97	83.12	45.13	69.80	57.11	1.85	2.30
-2	4	-9	26.87	26.48	1.94	26.41	85.79	0.38	0.71
-4	5	-9	102.88	103.93	-89.98	-52.00	210.02	-1.05	2.76
-1	5	-9	46.65	46.06	-18.05	-42.38	246.93	0.58	1.28
-6	6	-9	100.26	98.75	-41.43	-89.64	245.19	1.51	2.69
-3	6	-9	39.18	38.26	29.86	23.92	38.69	0.92	1.08
0	6	-9	79.63	81.06	-78.44	-20.45	194.61	-1.43	2.15
-5	7	-9	30.27	30.11	-26.04	-15.11	210.12	0.16	0.80
-2	7	-9	23.69	24.48	10.23	22.24	65.29	-0.79	0.71
-7	8	-9	41.29	40.61	-6.32	40.11	98.96	0.68	1.10
-4	8	-9	43.53	41.87	40.35	11.18	15.49	1.66	1.20
-1	8	-9	55.43	53.18	43.81	30.14	34.53	2.25	1.51
-9	9	-9	47.06	46.68	-6.15	-46.27	262.43	0.39	1.26
-6	9	-9	49.48	47.69	20.70	-42.96	295.72	1.80	1.36
-3	9	-9	29.78	28.96	-26.08	12.58	154.24	0.82	0.85
0	9	-9	82.78	80.16	-77.43	-20.75	195.00	2.62	2.24
-5	10	-9	49.16	48.58	-18.22	-45.03	247.97	0.58	1.34
-1	1	-8	91.77	93.02	-86.63	-33.88	201.36	-1.25	2.46
0	2	-8	29.66	30.11	9.83	-28.46	289.05	-0.45	0.79
-2	3	-8	46.71	46.23	5.71	45.88	82.91	0.48	1.26
-4	4	-8	28.57	28.46	-21.53	-18.62	220.86	0.11	0.76
-1	4	-8	41.57	41.98	-1.86	-41.93	267.46	-0.41	1.14
-3	5	-8	56.21	57.57	52.51	23.60	24.21	-1.36	1.51
0	5	-8	41.98	41.08	-37.84	-15.98	202.90	0.90	1.16
-5	6	-8	66.93	65.01	-54.14	35.98	146.39	1.92	1.79
-2	6	-8	24.83	24.43	-21.35	11.86	150.96	0.40	0.72
-7	7	-8	23.57	24.82	20.03	-14.66	323.81	-1.25	0.63
-4	7	-8	89.65	89.37	76.63	-46.00	329.03	0.27	2.41
-1	7	-8	46.29	46.30	-34.08	-31.34	222.61	0.00	1.27
-6	8	-8	57.64	58.13	52.16	25.66	26.19	-0.49	1.55
-3	8	-8	59.75	59.96	55.14	-23.55	336.87	-0.21	1.62
0	8	-8	20.91	20.76	20.59	2.62	7.25	0.15	0.64
-8	9	-8	22.25	22.50	19.97	10.36	27.41	-0.25	0.59
-5	9	-8	96.69	97.97	-93.81	28.25	163.24	-1.28	2.60
-2	9	-8	29.58	29.83	5.67	29.29	79.04	-0.25	0.84
-10	10	-8	33.02	32.93	-25.00	-21.43	220.61	0.10	0.88
-7	10	-8	8.85	7.44	3.43	-6.60	297.44	1.41	0.63
-4	10	-8	67.22	66.92	-55.04	-38.07	214.67	0.30	1.82
-1	10	-8	9.64	9.26	8.53	-3.59	337.20	0.39	0.61
-9	11	-8	41.70	42.35	-16.51	-39.00	247.05	-0.65	1.12
-6	11	-8	124.34	121.67	-114.76	-40.41	199.40	2.67	3.34
-3	11	-8	17.79	17.97	16.31	7.54	24.80	-0.17	0.60
0	11	-8	22.75	22.91	-22.64	-3.51	188.81	-0.16	0.69
-11	12	-8	25.42	24.77	-7.60	-23.58	252.14	0.65	0.67
-8	12	-8	31.18	29.38	-12.82	26.43	115.88	1.80	0.88
-5	12	-8	51.22	49.74	-49.68	2.50	177.12	1.48	1.40
-2	12	-8	26.29	24.99	4.35	24.61	79.98	1.30	0.77
-10	13	-8	25.90	24.94	22.17	11.43	27.27	0.97	0.76
-7	13	-8	62.35	62.71	57.41	25.23	23.72	-0.36	1.69
-4	13	-8	41.53	39.88	36.50	16.07	23.76	1.65	1.14
0	1	-7	65.06	64.42	42.58	48.35	48.63	0.63	1.76
-2	2	-7	72.83	74.46	49.28	-55.82	311.44	-1.63	1.97
-1	3	-7	48.99	48.98	48.63	5.84	6.85	0.01	1.32
-3	4	-7	23.74	24.46	-20.75	12.95	148.04	-0.73	0.63
0	4	-7	74.80	73.79	-29.11	67.80	113.23	1.02	2.02
-5	5	-7	61.33	64.62	-47.31	-44.01	222.93	-3.28	1.66
-2	5	-7	50.50	51.03	29.21	-41.84	304.92	-0.54	1.38
-4	6	-7	34.35	34.85	-31.05	-15.83	207.01	-0.50	0.93
-1	6	-7	101.89	102.87	-102.27	-11.09	186.19	-0.98	2.74
-6	7	-7	30.48	29.86	-13.10	-26.83	243.97	0.61	0.82
-3	7	-7	91.82	91.79	88.61	23.95	15.13	0.04	2.49
0	7	-7	48.65	49.97	25.87	42.76	58.83	-1.32	1.33
-8	8	-7	65.54	65.45	63.13	-17.30	344.67	0.09	1.77
-5	8	-7	58.89	59.16	56.14	-18.65	341.62	-0.26	1.60
-2	8	-7	25.93	26.21	17.35	19.65	48.56	-0.28	0.74
-7	9	-7	28.60	29.36	-28.46	7.20	165.80	-0.76	0.77
-4	9	-7	17.64	16.18	-11.19	-11.69	226.25	1.46	0.56
-1	9	-7	35.21	34.81	-22.04	-26.94	230.71	0.40	0.97
-9	10	-7	21.66	22.20	-21.03	7.10	161.36	-0.53	0.58
-6	10	-7	41.63	42.36	41.52	8.35	11.37	-0.72	1.15
-3	10	-7	75.44	77.23	77.23	0.00	0.00	-1.79	2.03
0	10	-7	34.40	34.89	-29.52	-18.58	212.18	-0.48	0.96
-11	11	-7	65.47	65.65	-64.73	-10.96	189.61	-0.18	1.76
-8	11	-7	47.64	47.12	40.49	24.10	30.76	0.52	1.31
-5	11	-7	63.77	62.73	19.75	59.54	71.65	1.04	1.73
-2	11	-7	14.39	12.74	9.12	8.89	44.29	1.65	0.54
-10	12	-7	20.45	19.58	-15.05	12.51	140.26	0.87	0.55
-7	12	-7	25.06	22.65	-19.27	11.91	148.29	2.41	0.73
-4	12	-7	28.30	28.94	15.88	-24.20	303.27	-0.64	0.81
-1	12	-7	31.89	31.79	-7.25	-30.95	256.82	0.09	0.90
-12	13	-7	30.84	31.30	29.87	9.38	17.43	-0.46	0.82
-9	13	-7	72.18	72.29	68.78	-22.28	342.05	-0.11	1.96
-6	13	-7	62.63	62.50	62.48	1.74	1.59	0.12	1.71
-3	13	-7	34.29	34.18	-3.66	-33.99	263.86	0.11	0.95
0	13	-7	52.68	50.50	-12.13	-49.02	256.10	2.18	1.44

-14	14	-7	14.02	13.89	-13.71	2.27	170.61	0.12	0.40
-11	14	-7	21.51	20.53	-12.70	-16.13	231.80	0.98	0.66
-8	14	-7	33.66	34.28	31.19	-14.22	335.50	-0.62	0.95
-5	14	-7	51.56	51.51	-6.77	51.06	97.55	0.06	1.41
-2	14	-7	46.60	46.21	27.65	37.03	53.25	0.38	1.28
-13	15	-7	21.63	21.02	14.43	15.28	46.63	0.61	0.58
-10	15	-7	64.42	64.46	-63.91	8.40	172.51	-0.04	1.75
-7	15	-7	49.17	48.07	45.06	-16.74	339.62	1.11	1.34
-4	15	-7	40.20	40.07	-39.01	-9.14	193.19	0.13	1.11
-9	16	-7	43.63	42.78	-3.06	-42.67	265.89	0.85	1.20
-6	16	-7	67.45	66.02	-65.98	-2.53	182.20	1.43	1.83
0	0	-6	212.72	222.19	-67.41	-211.72	252.34	-9.47	5.58
-1	2	-6	50.38	51.73	-43.64	27.78	147.53	-1.36	1.36
-3	3	-6	78.16	76.95	63.38	-43.63	325.46	1.21	2.12
0	3	-6	114.24	118.28	69.68	-95.58	306.09	-4.04	3.04
-2	4	-6	45.53	47.73	28.67	38.16	53.08	-2.20	1.23
-4	5	-6	62.82	62.68	-57.04	25.98	155.51	0.14	1.71
-1	5	-6	20.63	19.13	16.01	10.46	33.17	1.51	0.60
-6	6	-6	122.36	121.68	-101.97	66.39	146.93	0.68	3.25
-3	6	-6	83.46	86.03	86.00	-2.26	358.50	-2.56	2.26
0	6	-6	51.13	48.96	19.43	44.94	66.61	2.17	1.39
-5	7	-6	45.67	47.35	47.23	-3.48	355.79	-1.68	1.23
-2	7	-6	47.05	47.55	33.57	-33.67	314.92	-0.50	1.28
-7	8	-6	69.46	72.02	71.98	2.51	2.00	-2.56	1.87
-4	8	-6	72.63	72.64	61.24	-39.07	327.46	-0.01	1.97
-1	8	-6	31.67	31.42	24.30	-19.92	320.65	0.25	0.88
-9	9	-6	85.91	87.39	-76.75	41.79	151.43	-1.48	2.31
-6	9	-6	26.03	26.63	-26.10	5.28	168.56	-0.59	0.74
-3	9	-6	25.87	26.71	25.11	9.11	19.94	-0.84	0.74
0	9	-6	94.03	94.89	64.49	69.61	47.19	-0.86	2.54
-8	10	-6	66.90	69.18	61.05	-32.55	331.93	-2.28	1.81
-5	10	-6	138.41	144.12	-143.84	-8.88	183.53	-5.70	3.67
-2	10	-6	20.28	19.40	-3.22	-19.13	260.45	0.88	0.61
-10	11	-6	75.56	76.06	73.16	-20.80	344.13	-0.49	2.03
-7	11	-6	26.31	25.87	-17.10	-19.40	228.60	0.44	0.75
-4	11	-6	45.24	46.22	-34.39	-30.88	221.93	-0.98	1.24
-1	11	-6	63.82	64.19	-62.07	-16.39	194.79	-0.37	1.74
-12	12	-6	31.14	32.02	-26.03	18.65	144.38	-0.88	0.84
-9	12	-6	37.64	37.34	-34.39	14.55	157.07	0.31	1.04
-6	12	-6	81.35	81.39	-65.98	-47.65	215.84	-0.04	2.20
-3	12	-6	79.03	81.14	71.14	39.02	28.74	-2.11	2.14
0	12	-6	83.86	83.39	53.95	63.58	49.68	0.47	2.27
-11	13	-6	67.91	68.88	68.00	-10.98	350.83	-0.97	1.83
-8	13	-6	9.94	9.52	8.47	4.35	27.21	0.42	0.55
-5	13	-6	27.38	26.61	12.29	-23.60	297.50	0.77	0.78
-2	13	-6	7.67	4.80	-0.14	4.80	91.67	2.87	0.65
-13	14	-6	32.39	31.53	27.36	-15.67	330.21	0.86	0.86
-10	14	-6	17.57	17.63	15.82	7.76	26.14	-0.06	0.59
-7	14	-6	74.62	75.25	74.71	-9.00	353.13	-0.63	2.02
-4	14	-6	17.89	16.98	13.15	10.74	39.22	0.91	0.59
-1	14	-6	32.60	32.29	28.79	-14.61	333.09	0.31	0.92
-15	15	-6	67.60	68.36	-67.57	10.37	171.28	-0.76	1.82
-12	15	-6	24.18	23.57	23.00	5.15	12.62	0.61	0.71
-9	15	-6	17.29	17.36	-17.10	-2.99	189.92	-0.07	0.59
-6	15	-6	22.03	21.81	-2.18	-21.70	264.27	0.22	0.66
-3	15	-6	12.40	12.71	6.54	-10.90	300.94	-0.32	0.56
0	15	-6	75.91	73.91	-73.90	-1.08	180.84	2.00	2.05
-14	16	-6	21.27	20.50	-12.03	-16.60	234.07	0.76	0.57
-11	16	-6	82.71	82.66	-76.96	30.14	158.61	0.05	2.23
-8	16	-6	36.38	35.50	25.17	25.03	44.84	0.88	1.01
-5	16	-6	30.81	29.46	-19.85	21.77	132.36	1.34	0.87
-2	16	-6	18.85	17.83	4.73	-17.19	285.39	1.01	0.62
-13	17	-6	22.37	23.17	22.37	6.02	15.07	-0.80	0.68
-10	17	-6	33.08	32.23	6.62	31.54	78.14	0.85	0.93
-7	17	-6	36.87	36.14	34.57	10.53	16.94	0.73	1.03
-4	17	-6	62.83	61.13	60.65	-7.66	352.80	1.70	1.71
-9	18	-6	70.99	70.42	27.16	-64.97	292.69	0.57	1.93
-1	1	-5	146.35	144.96	16.23	144.05	83.57	1.39	3.85
0	2	-5	65.33	65.03	33.02	-56.03	300.51	0.30	1.76
-2	3	-5	35.65	34.75	21.22	-27.52	307.64	0.89	0.96
-4	4	-5	147.07	149.84	-32.04	146.37	102.35	-2.76	3.88
-1	4	-5	31.95	35.08	8.50	34.03	75.98	-3.13	0.88
-3	5	-5	94.78	94.54	9.68	-94.04	275.88	0.25	2.53
0	5	-5	307.10	311.42	-308.29	44.03	171.87	-4.32	8.04
-5	6	-5	52.04	55.56	-49.99	24.26	154.11	-3.52	1.40
-2	6	-5	12.79	12.26	0.25	12.25	88.83	0.54	0.46
-7	7	-5	11.49	11.13	8.84	6.76	37.40	0.36	0.32
-4	7	-5	102.09	103.57	99.82	-27.62	344.53	-1.49	2.72
-1	7	-5	82.51	82.37	-76.68	30.09	158.57	0.14	2.23
-6	8	-5	24.79	24.45	14.09	-19.98	305.20	0.35	0.67
-3	8	-5	17.58	13.34	12.90	-3.41	345.21	4.24	0.53
0	8	-5	81.53	83.21	-41.40	-72.19	240.17	-1.68	2.21
-8	9	-5	49.64	50.16	36.13	-34.79	316.08	-0.52	1.35
-5	9	-5	44.06	43.08	32.61	28.15	40.80	0.98	1.20
-2	9	-5	72.84	73.69	73.37	-6.85	354.67	-0.85	1.97
-10	10	-5	109.96	115.24	-100.11	57.09	150.31	-5.28	2.94
-7	10	-5	21.93	22.14	0.55	22.13	88.56	-0.21	0.64
-4	10	-5	65.68	65.92	-44.61	48.54	132.58	-0.24	1.79
-1	10	-5	23.14	23.32	-19.67	12.52	147.53	-0.18	0.67
-9	11	-5	75.62	76.02	-71.70	25.25	160.60	-0.40	2.04
-6	11	-5	166.88	169.42	-88.88	144.23	121.64	-2.54	4.40
-3	11	-5	36.94	37.79	37.65	-3.23	355.10	-0.85	1.02
0	11	-5	58.30	58.42	35.73	46.22	52.30	-0.12	1.60
-11	12	-5	78.08	80.05	-79.39	10.25	172.65	-1.97	2.11
-8	12	-5	67.70	71.38	58.84	-40.42	325.51	-3.69	1.83
-5	12	-5	76.79	78.42	59.52	51.06	40.63	-1.63	2.08

-2	12	-5	29.74	27.95	23.64	14.92	32.27	1.79	0.84
-13	13	-5	64.87	64.11	63.41	-9.42	351.55	0.76	1.74
-10	13	-5	88.45	89.17	53.76	-71.14	307.08	-0.72	2.38
-7	13	-5	53.35	56.25	56.15	-3.47	356.46	-2.90	1.45
-4	13	-5	68.97	70.21	-46.64	-52.48	228.37	-1.24	1.89
-1	13	-5	60.99	61.98	-28.27	-55.16	242.87	-1.00	1.66
-12	14	-5	24.58	24.13	-23.99	2.58	173.87	0.45	0.65
-9	14	-5	66.92	67.55	-19.83	64.57	107.07	-0.63	1.82
-6	14	-5	46.32	46.91	44.15	-15.84	340.26	-0.59	1.27
-3	14	-5	52.51	52.72	52.68	2.06	2.24	-0.20	1.44
0	14	-5	73.24	73.52	73.41	-3.87	356.99	-0.28	1.99
-14	15	-5	40.95	41.08	-29.17	28.92	135.25	-0.13	1.10
-11	15	-5	21.86	21.75	-21.56	-2.86	187.55	0.11	0.66
-8	15	-5	62.64	64.07	46.20	-44.38	316.15	-1.43	1.70
-5	15	-5	141.03	142.03	-122.26	72.29	149.40	-1.00	3.75
-2	15	-5	13.41	13.40	6.32	11.81	61.87	0.01	0.56
-16	16	-5	77.16	75.39	-24.79	71.20	109.20	1.77	2.08
-13	16	-5	58.17	56.74	51.27	-24.32	334.62	1.43	1.58
-10	16	-5	58.68	60.20	-44.71	40.30	137.97	-1.51	1.61
-7	16	-5	54.69	54.30	-40.91	-35.71	221.11	0.38	1.49
-4	16	-5	88.89	87.18	-87.16	-1.82	181.19	1.71	2.40
-1	16	-5	86.76	86.15	-56.29	65.21	130.80	0.61	2.36
-15	17	-5	17.42	16.94	9.41	14.09	56.28	0.47	0.60
-12	17	-5	35.75	35.14	0.18	35.14	89.70	0.60	1.00
-9	17	-5	18.19	16.44	16.31	-2.11	352.62	1.75	0.60
-6	17	-5	76.34	75.33	-69.73	28.51	157.76	1.01	2.07
-3	17	-5	74.56	75.80	69.84	-29.46	337.13	-1.24	2.03
-14	18	-5	67.15	66.85	44.13	-50.22	311.30	0.29	1.83
-11	18	-5	54.90	55.55	5.22	-55.30	275.39	-0.65	1.50
-8	18	-5	32.21	30.60	18.25	24.56	53.38	1.61	0.91
-5	18	-5	19.53	18.13	-9.42	-15.49	238.70	1.40	0.64
-13	19	-5	9.97	9.00	7.49	-4.98	326.36	0.97	0.62
-7	19	-5	35.23	35.34	7.91	-34.45	282.94	-0.11	0.99
0	1	-4	100.57	101.38	20.02	99.38	78.61	-0.81	2.66
-2	2	-4	87.25	84.43	-47.47	-69.83	235.79	2.82	2.32
-1	3	-4	29.30	29.63	-19.80	-22.05	228.07	-0.33	0.79
-3	4	-4	37.04	35.15	-10.17	-33.65	253.18	1.89	1.00
0	4	-4	131.99	129.66	125.57	32.31	14.43	2.34	3.48
-5	5	-4	300.93	295.26	-229.15	186.20	140.90	5.67	7.87
-2	5	-4	64.54	63.96	-60.87	19.64	162.12	0.58	1.75
-4	6	-4	109.10	109.45	-2.45	109.42	91.28	-0.35	2.89
-1	6	-4	220.08	219.29	58.49	211.35	74.53	0.79	5.77
-6	7	-4	30.29	29.82	-5.58	29.29	100.78	0.47	0.82
-3	7	-4	197.23	198.15	134.19	-145.80	312.63	-0.92	5.18
0	7	-4	89.08	88.32	83.93	27.49	18.13	0.76	2.39
-8	8	-4	13.65	12.94	-5.71	11.61	116.21	0.71	0.37
-5	8	-4	101.25	103.32	-63.55	-81.46	232.04	-2.07	2.69
-2	8	-4	69.75	72.49	-42.98	-58.37	233.63	-2.74	1.90
-7	9	-4	46.28	46.28	-32.96	-32.49	224.59	0.00	1.25
-4	9	-4	112.39	115.79	27.69	112.43	76.16	-3.40	2.98
-1	9	-4	49.00	47.49	-47.48	1.20	178.55	1.51	1.33
-9	10	-4	64.87	65.92	28.36	59.51	64.52	-1.05	1.74
-6	10	-4	54.16	56.94	-47.63	31.20	146.77	-2.77	1.47
-3	10	-4	48.10	48.73	21.26	-43.85	295.86	-0.64	1.31
0	10	-4	156.42	159.46	-32.82	156.05	101.88	-3.04	4.13
-11	11	-4	202.91	203.37	141.58	146.00	45.88	-0.46	5.34
-8	11	-4	55.91	55.88	19.92	-52.21	290.88	0.02	1.52
-5	11	-4	71.70	76.27	-36.00	67.24	118.16	-4.56	1.93
-2	11	-4	32.68	32.38	-21.56	-24.15	228.24	0.31	0.91
-10	12	-4	36.73	36.84	23.44	28.43	50.50	-0.11	0.99
-7	12	-4	35.54	34.66	3.84	34.44	83.64	0.88	0.98
-4	12	-4	32.74	33.72	-17.48	-28.84	238.79	-0.98	0.91
-1	12	-4	63.98	64.37	-40.53	50.01	129.02	-0.39	1.73
-12	13	-4	29.94	30.28	6.16	-29.64	281.73	-0.33	0.80
-9	13	-4	66.27	68.20	-63.15	-25.74	202.17	-1.92	1.79
-6	13	-4	82.38	83.44	-68.82	-47.17	214.42	-1.06	2.24
-3	13	-4	11.88	12.38	-8.46	9.04	133.11	-0.49	0.49
0	13	-4	7.21	6.83	6.40	2.37	20.30	0.39	0.63
-14	14	-4	55.58	56.11	36.16	42.91	49.88	-0.53	1.50
-11	14	-4	27.36	27.24	12.50	24.20	62.68	0.12	0.78
-8	14	-4	106.79	107.37	68.89	-82.36	309.91	-0.59	2.86
-5	14	-4	46.76	47.29	45.50	-12.88	344.20	-0.53	1.27
-2	14	-4	55.98	55.17	-1.82	-55.14	268.11	0.81	1.53
-13	15	-4	72.52	75.04	2.21	-75.01	271.68	-2.52	1.96
-10	15	-4	93.15	93.88	-40.27	84.80	115.40	-0.72	2.53
-7	15	-4	56.55	56.63	50.10	26.40	27.79	-0.08	1.54
-4	15	-4	82.66	82.68	-9.48	82.13	96.58	-0.01	2.23
-1	15	-4	47.44	48.57	-48.32	-4.95	185.85	-1.13	1.30
-15	16	-4	68.61	67.89	-48.64	47.37	135.76	0.71	1.84
-12	16	-4	104.12	104.95	-88.39	56.58	147.37	-0.83	2.81
-9	16	-4	68.34	71.55	-67.19	24.57	159.91	-3.21	1.86
-6	16	-4	126.03	127.11	25.96	124.43	78.21	-1.08	3.37
-3	16	-4	42.04	42.98	41.90	9.58	12.88	-0.94	1.16
0	16	-4	96.27	95.62	-11.21	94.96	96.73	0.65	2.59
-17	17	-4	35.97	37.08	19.26	31.69	58.71	-1.11	0.96
-14	17	-4	24.27	25.33	23.29	-9.97	336.83	-1.06	0.71
-11	17	-4	94.31	94.39	-42.57	84.25	116.81	-0.09	2.53
-8	17	-4	42.47	42.98	20.34	-37.86	298.25	-0.51	1.17
-5	17	-4	52.58	52.92	44.27	29.00	33.23	-0.35	1.43
-2	17	-4	49.49	48.75	41.95	-24.83	329.38	0.74	1.36
-16	18	-4	55.85	55.34	0.22	-55.34	270.23	0.51	1.52
-13	18	-4	61.68	61.64	42.37	-44.77	313.42	0.03	1.67
-10	18	-4	31.27	27.40	-17.56	-21.03	230.14	3.87	0.88
-7	18	-4	30.20	30.97	29.25	-10.18	340.80	-0.77	0.86
-4	18	-4	41.83	41.11	-6.58	-40.58	260.79	0.73	1.16
-1	18	-4	43.34	40.91	-32.93	-24.27	216.39	2.42	1.20

-15	19	-4	11.12	12.25	0.23	12.24	88.92	-1.13	0.59
-12	19	-4	38.98	36.27	-23.53	-27.60	229.55	2.71	1.08
-9	19	-4	16.74	16.01	11.36	-11.28	315.19	0.73	0.59
-6	19	-4	10.05	9.48	9.17	-2.38	345.45	0.57	0.61
-3	19	-4	20.00	19.14	16.81	-9.15	331.45	0.86	0.64
-14	20	-4	41.89	41.56	6.15	41.10	81.49	0.33	1.16
-11	20	-4	52.81	51.66	-43.61	27.69	147.59	1.15	1.44
-8	20	-4	14.05	14.04	-0.96	-14.00	266.08	0.01	0.57
-1	2	-3	20.51	17.50	-13.68	-10.91	218.56	3.01	0.56
-3	3	-3	119.67	120.71	-31.27	116.59	105.01	-1.04	3.15
0	3	-3	113.75	110.38	-109.20	-16.14	188.41	3.37	3.00
-2	4	-3	126.26	125.31	-80.51	-96.02	230.02	0.96	3.32
-4	5	-3	101.07	98.60	98.00	-10.89	353.66	2.46	2.67
-1	5	-3	26.91	29.78	-11.28	27.56	112.26	-2.87	0.74
-6	6	-3	273.29	268.84	214.62	161.91	37.03	4.44	7.15
-3	6	-3	90.93	90.80	23.18	-87.79	284.79	0.13	2.41
0	6	-3	142.11	138.52	-134.57	-32.85	193.72	3.59	3.74
-5	7	-3	18.29	17.45	9.84	-14.41	304.32	0.85	0.49
-2	7	-3	19.48	17.77	-15.96	-7.81	206.08	1.71	0.56
-7	8	-3	105.17	106.60	-56.67	-90.29	237.89	-1.43	2.79
-4	8	-3	23.97	23.97	20.60	-12.26	329.23	0.00	0.68
-1	8	-3	53.94	54.40	-53.16	-11.56	192.26	-0.47	1.47
-9	9	-3	54.34	54.83	54.82	-0.67	359.30	-0.48	1.47
-6	9	-3	72.44	73.05	65.40	32.55	26.46	-0.61	1.96
-3	9	-3	115.96	114.93	-45.79	-105.42	246.52	1.03	3.07
0	9	-3	86.21	86.72	34.43	-79.60	293.39	-0.52	2.32
-8	10	-3	95.83	95.91	-86.76	-40.89	205.23	-0.08	2.56
-5	10	-3	128.69	128.10	-45.12	119.89	110.62	0.59	3.40
-2	10	-3	34.75	37.13	-19.50	31.60	121.68	-2.37	0.96
-10	11	-3	18.35	18.10	-6.20	17.01	110.03	0.25	0.49
-7	11	-3	51.78	51.00	-38.74	33.16	139.43	0.79	1.41
-4	11	-3	65.82	65.60	5.55	65.36	85.14	0.22	1.78
-1	11	-3	169.76	171.93	157.28	69.46	23.83	-2.18	4.47
-12	12	-3	24.04	22.43	19.52	-11.03	330.53	1.62	0.65
-9	12	-3	41.82	44.28	-31.89	-30.71	223.92	-2.45	1.15
-6	12	-3	26.30	27.39	22.19	16.05	35.88	-1.09	0.74
-3	12	-3	97.29	99.74	-50.48	-86.02	239.59	-2.45	2.61
0	12	-3	52.38	52.50	51.47	-10.32	348.67	-0.12	1.43
-11	13	-3	77.00	77.98	-53.47	-56.77	226.71	-0.99	2.07
-8	13	-3	61.54	60.87	-53.35	-29.31	208.78	0.67	1.68
-5	13	-3	24.85	23.80	-22.37	8.12	160.05	1.05	0.71
-2	13	-3	33.62	34.21	5.00	-33.84	278.41	-0.59	0.93
-13	14	-3	56.99	58.69	-52.60	-26.04	206.34	-1.70	1.54
-10	14	-3	44.51	45.95	43.17	-15.74	339.96	-1.44	1.22
-7	14	-3	82.36	84.41	54.79	-64.21	310.47	-2.05	2.24
-4	14	-3	7.52	7.72	5.37	5.54	45.86	-0.20	0.57
-1	14	-3	18.37	18.37	-18.35	0.84	177.38	0.00	0.58
-15	15	-3	8.61	8.43	5.83	6.09	46.26	0.18	0.29
-12	15	-3	21.27	21.07	18.99	9.13	25.69	0.20	0.63
-9	15	-3	94.46	95.22	30.29	90.27	71.45	-0.75	2.55
-6	15	-3	98.82	100.56	-98.20	21.63	167.58	-1.73	2.66
-3	15	-3	68.70	69.88	-40.91	-56.65	234.16	-1.18	1.86
0	15	-3	85.93	88.22	62.32	62.45	45.06	-2.29	2.32
-14	16	-3	29.17	30.20	-10.71	28.24	110.77	-1.03	0.78
-11	16	-3	93.95	95.91	86.61	41.20	25.44	-1.96	2.55
-8	16	-3	71.83	71.48	11.30	-70.58	279.10	0.35	1.96
-5	16	-3	38.29	37.43	-9.53	36.20	104.74	0.86	1.06
-2	16	-3	31.76	29.52	-28.96	-5.74	191.21	2.24	0.89
-16	17	-3	76.05	75.63	-10.75	74.87	98.17	0.42	2.04
-13	17	-3	60.40	59.84	43.10	-41.52	316.07	0.56	1.64
-10	17	-3	68.18	68.77	68.16	-9.15	352.35	-0.59	1.85
-7	17	-3	48.23	48.95	31.61	-37.37	310.23	-0.71	1.32
-4	17	-3	42.65	42.54	-2.31	-42.48	266.88	0.11	1.18
-1	17	-3	63.02	61.66	-40.85	46.19	131.49	1.36	1.71
-18	18	-3	76.12	75.53	-0.26	-75.53	269.80	0.59	2.05
-15	18	-3	52.29	52.84	14.32	-50.86	285.73	-0.55	1.43
-12	18	-3	31.07	29.89	-28.48	9.10	162.28	1.17	0.88
-9	18	-3	79.19	78.48	-77.76	10.62	172.22	0.70	2.13
-6	18	-3	78.87	77.36	-77.26	4.09	176.97	1.51	2.15
-3	18	-3	37.47	37.87	36.61	-9.70	345.16	-0.40	1.04
0	18	-3	61.65	60.34	59.66	9.04	8.62	1.31	1.68
-17	19	-3	27.04	25.43	-24.62	6.39	165.45	1.61	0.78
-14	19	-3	27.30	27.51	9.87	-25.68	291.02	-0.22	0.79
-11	19	-3	19.83	20.48	4.27	-20.03	282.04	-0.65	0.63
-8	19	-3	43.12	42.19	-8.57	-41.30	258.27	0.94	1.19
-5	19	-3	23.18	23.15	8.54	-21.51	291.66	0.03	0.70
-2	19	-3	60.82	60.27	-49.05	-35.02	215.52	0.54	1.66
-16	20	-3	36.18	35.51	-3.23	35.36	95.22	0.68	1.01
-13	20	-3	36.52	36.54	3.01	-36.42	274.73	-0.02	1.02
-10	20	-3	45.35	46.27	34.97	30.29	40.90	-0.92	1.25
-7	20	-3	29.04	27.72	-8.90	-26.26	251.27	1.32	0.83
-4	20	-3	27.04	26.64	24.95	9.34	20.53	0.40	0.78
-12	21	-3	45.71	44.94	-9.92	43.83	102.75	0.77	1.26
-9	21	-3	44.06	42.93	-27.40	33.05	129.66	1.13	1.21
0	2	-2	29.58	25.04	19.83	-15.29	322.37	4.55	0.81
-4	4	-2	45.12	38.57	-26.42	-28.10	226.76	6.56	1.22
-1	4	-2	66.09	67.46	47.59	-47.82	314.86	-1.37	1.76
-3	5	-2	118.42	112.29	-82.61	76.05	137.37	6.13	3.11
0	5	-2	160.38	163.46	12.56	162.98	85.59	-3.09	4.21
-5	6	-2	249.96	233.41	-232.73	-17.69	184.35	16.56	6.54
-2	6	-2	86.85	85.26	-71.05	-47.14	213.57	1.59	2.30
-7	7	-2	52.79	54.06	9.60	-53.20	280.23	-1.27	1.43
-4	7	-2	227.06	216.39	177.79	-123.35	325.25	10.68	5.94
-1	7	-2	46.58	45.93	44.60	-10.98	346.16	0.65	1.27
-6	8	-2	88.49	87.66	-84.70	-22.57	194.92	0.83	2.35
-3	8	-2	43.93	43.86	16.29	40.73	68.20	0.07	1.19

0	8	-2	53.25	50.79	-50.74	-2.13	182.41	2.46	1.45
-8	9	-2	65.15	64.56	-64.37	-4.99	184.43	0.58	1.77
-5	9	-2	91.83	92.07	-50.84	-76.76	236.48	-0.24	2.44
-2	9	-2	121.08	121.17	-91.08	-79.90	221.26	-0.08	3.20
-10	10	-2	116.04	117.53	98.23	64.53	33.30	-1.50	3.08
-7	10	-2	27.52	26.12	-4.64	-25.70	259.77	1.40	0.77
-4	10	-2	123.61	124.66	120.80	30.79	14.30	-1.06	3.27
-1	10	-2	44.20	42.57	-38.84	17.42	155.84	1.63	1.21
-9	11	-2	27.37	27.63	26.68	-7.15	345.00	-0.25	0.74
-6	11	-2	110.52	111.63	107.59	29.76	15.46	-1.11	2.93
-3	11	-2	100.90	102.32	-6.84	-102.09	266.16	-1.42	2.69
0	11	-2	10.98	10.00	-9.42	-3.36	199.63	0.99	0.46
-11	12	-2	68.68	66.85	44.99	49.45	47.70	1.83	1.86
-8	12	-2	93.02	96.70	-50.44	-82.50	238.56	-3.68	2.49
-5	12	-2	59.64	61.32	-43.90	-42.82	224.29	-1.68	1.63
-2	12	-2	57.54	58.89	-58.18	-9.10	188.89	-1.35	1.56
-13	13	-2	61.29	61.03	-46.69	-39.30	220.09	0.26	1.65
-10	13	-2	41.19	40.63	-39.19	-10.72	195.30	0.57	1.13
-7	13	-2	27.06	26.77	13.22	23.28	60.42	0.29	0.76
-4	13	-2	64.65	66.04	-61.39	24.36	158.36	-1.40	1.76
-1	13	-2	64.34	65.82	-56.46	-33.82	210.92	-1.48	1.74
-12	14	-2	57.10	57.17	-17.94	-54.28	251.71	-0.07	1.55
-9	14	-2	62.81	63.68	5.43	-63.45	274.89	-0.88	1.72
-6	14	-2	107.40	110.29	83.07	-72.56	318.86	-2.89	2.87
-3	14	-2	37.09	35.56	-31.23	-17.00	208.56	1.53	1.02
0	14	-2	53.46	53.54	-26.80	-46.35	239.97	-0.07	1.46
-14	15	-2	47.65	49.74	32.84	37.36	48.69	-2.09	1.29
-11	15	-2	79.39	81.08	-50.22	63.65	128.27	-1.69	2.14
-8	15	-2	59.62	60.40	-36.14	-48.39	233.25	-0.78	1.62
-5	15	-2	54.38	55.76	48.71	27.15	29.13	-1.38	1.48
-2	15	-2	38.45	37.20	13.10	-34.82	290.61	1.25	1.06
-16	16	-2	30.88	32.38	32.14	3.93	6.97	-1.50	0.83
-13	16	-2	97.12	96.98	-61.44	-75.03	230.69	0.14	2.63
-10	16	-2	89.26	90.49	-81.89	38.50	154.82	-1.23	2.42
-7	16	-2	55.14	56.17	3.99	56.03	85.93	-1.03	1.50
-4	16	-2	82.11	81.42	-15.16	80.00	100.73	0.69	2.22
-1	16	-2	53.77	52.98	35.29	39.52	48.24	0.79	1.47
-15	17	-2	49.02	50.28	25.51	-43.33	300.48	-1.26	1.34
-12	17	-2	23.94	24.57	-18.58	-16.08	220.88	-0.64	0.70
-9	17	-2	48.27	48.18	-28.76	-38.65	233.34	0.09	1.32
-6	17	-2	39.59	40.31	6.79	39.74	80.31	-0.72	1.10
-3	17	-2	48.18	48.40	-5.37	-48.10	263.63	-0.22	1.32
0	17	-2	17.76	16.97	15.27	-7.41	334.11	0.79	0.59
-17	18	-2	21.80	20.72	17.96	-10.32	330.11	1.08	0.58
-14	18	-2	30.82	31.43	13.09	28.57	65.38	-0.61	0.87
-11	18	-2	45.79	46.01	-42.75	-17.03	201.72	-0.23	1.26
-8	18	-2	22.75	23.22	-14.96	-17.75	229.87	-0.47	0.67
-5	18	-2	58.98	58.09	46.84	-34.37	323.73	0.89	1.61
-2	18	-2	60.98	60.52	35.71	-48.87	306.15	0.45	1.67
-19	19	-2	20.56	20.87	-17.32	11.64	146.10	-0.31	0.55
-16	19	-2	32.77	32.57	-17.94	-27.18	236.58	0.20	0.92
-13	19	-2	65.09	64.34	-44.32	-46.64	226.46	0.75	1.77
-10	19	-2	27.43	28.02	6.68	-27.21	283.79	-0.59	0.79
-7	19	-2	38.92	37.97	-28.75	-24.80	220.78	0.96	1.08
-4	19	-2	19.79	21.56	-21.26	3.63	170.31	-1.77	0.64
-1	19	-2	31.59	31.77	-29.07	-12.81	203.77	-0.17	0.90
-18	20	-2	43.04	43.50	-19.45	-38.91	243.45	-0.45	1.19
-15	20	-2	25.99	26.26	11.88	23.42	63.10	-0.27	0.75
-12	20	-2	50.99	49.40	-44.35	-21.77	206.14	1.59	1.39
-9	20	-2	38.01	39.28	21.46	32.90	56.88	-1.27	1.06
-6	20	-2	46.25	46.12	-41.07	20.98	152.94	0.13	1.27
-3	20	-2	19.07	18.86	-14.88	-11.59	217.92	0.21	0.63
-14	21	-2	39.99	40.52	19.60	35.46	61.07	-0.53	1.11
-11	21	-2	81.83	80.17	78.18	17.78	12.81	1.66	2.21
-8	21	-2	39.19	38.35	1.51	-38.32	272.26	0.84	1.09
-5	21	-2	27.76	27.12	-3.15	26.93	96.67	0.64	0.81
-10	22	-2	50.53	48.68	42.46	-23.80	330.73	1.86	1.39
0	1	-1	91.06	94.85	-61.69	72.05	130.57	-3.79	2.39
-2	2	-1	86.27	85.65	61.10	60.03	44.50	0.62	2.27
-1	3	-1	127.70	129.03	-109.81	-67.76	211.68	-1.33	3.35
-3	4	-1	68.00	68.15	-48.19	-48.18	224.99	-0.15	1.80
0	4	-1	55.01	54.54	-36.12	40.86	131.47	0.47	1.47
-2	5	-1	67.41	60.96	4.35	-60.81	274.09	6.45	1.79
-4	6	-1	47.29	47.90	42.70	-21.69	333.08	-0.61	1.29
-1	6	-1	136.37	134.38	117.03	66.05	29.44	1.98	3.58
-6	7	-1	106.89	102.23	96.79	32.90	18.77	4.67	2.82
-3	7	-1	124.75	113.13	77.95	-81.99	313.55	11.62	3.28
0	7	-1	57.09	58.76	-44.76	38.07	139.62	-1.67	1.55
-8	8	-1	15.86	15.78	-7.29	13.99	117.53	0.09	0.42
-5	8	-1	56.69	54.27	-22.49	49.40	114.48	2.42	1.54
-2	8	-1	118.95	116.50	-80.44	-84.28	226.33	2.45	3.14
-7	9	-1	183.22	180.37	-102.82	-148.19	235.25	2.85	4.81
-4	9	-1	40.81	41.38	1.71	-41.35	272.37	-0.57	1.12
-1	9	-1	81.55	80.73	-20.82	-78.00	255.05	0.82	2.18
-9	10	-1	74.14	75.79	68.76	31.88	24.87	-1.65	2.00
-6	10	-1	106.34	108.29	9.75	107.85	84.83	-1.95	2.82
-3	10	-1	65.61	63.87	-32.69	54.87	120.79	1.74	1.78
0	10	-1	279.23	272.62	257.63	89.15	19.09	6.61	7.31
-11	11	-1	186.09	189.99	189.99	1.63	0.49	-3.90	4.89
-8	11	-1	69.98	70.79	-61.59	-34.89	209.53	-0.80	1.90
-5	11	-1	152.61	151.69	-94.37	118.77	128.47	0.91	4.02
-2	11	-1	52.49	53.13	-22.75	48.01	115.35	-0.64	1.42
-10	12	-1	75.05	77.01	-57.52	-51.21	221.68	-1.96	2.04
-7	12	-1	76.73	76.95	-67.80	-36.39	208.22	-0.21	2.08
-4	12	-1	75.36	75.64	-21.64	-72.48	253.37	-0.29	2.04
-1	12	-1	127.93	127.48	111.10	62.51	29.36	0.45	3.39

-12	13	-1	10.82	6.12	-5.76	2.08	160.10	4.69	0.31
-9	13	-1	54.34	56.79	-17.49	54.02	107.94	-2.45	1.48
-6	13	-1	37.48	36.79	-25.68	-26.35	225.73	0.69	1.03
-3	13	-1	85.10	84.38	18.10	-82.41	282.39	0.72	2.30
0	13	-1	53.83	53.54	23.03	-48.34	295.48	0.29	1.46
-14	14	-1	80.38	82.13	12.84	-81.12	279.00	-1.75	2.16
-11	14	-1	69.34	71.80	2.52	-71.76	272.01	-2.46	1.88
-8	14	-1	34.34	34.38	16.19	-30.34	298.08	-0.04	0.95
-5	14	-1	77.15	78.80	-74.49	25.73	160.94	-1.66	2.10
-2	14	-1	87.97	91.19	-91.07	-4.71	182.96	-3.22	2.38
-13	15	-1	70.99	70.89	-70.81	3.41	177.24	0.10	1.91
-10	15	-1	102.36	104.92	89.24	55.19	31.73	-2.56	2.75
-7	15	-1	29.81	28.26	12.85	-25.17	297.04	1.55	0.84
-4	15	-1	89.98	90.93	88.10	22.51	14.33	-0.95	2.43
-1	15	-1	41.21	41.71	-21.05	36.01	120.31	-0.50	1.13
-15	16	-1	70.16	71.83	-23.05	68.03	108.72	-1.67	1.90
-12	16	-1	92.82	94.72	66.10	67.84	45.74	-1.90	2.51
-9	16	-1	84.64	84.40	78.15	31.86	22.18	0.24	2.30
-6	16	-1	82.30	81.50	77.67	24.68	17.63	0.80	2.22
-3	16	-1	73.49	74.11	-7.65	-73.71	264.07	-0.62	2.00
0	16	-1	23.71	24.74	2.99	24.56	83.05	-1.03	0.69
-17	17	-1	16.78	17.27	11.73	12.67	47.19	-0.48	0.46
-14	17	-1	47.71	47.53	25.38	-40.18	302.28	0.19	1.30
-11	17	-1	94.75	94.26	81.77	46.88	29.83	0.49	2.57
-8	17	-1	74.63	77.27	-53.39	-55.85	226.29	-2.64	2.03
-5	17	-1	36.84	37.23	-31.61	-19.66	211.89	-0.39	1.02
-2	17	-1	22.34	22.62	-14.38	17.46	129.47	-0.27	0.66
-16	18	-1	59.55	59.93	-59.61	6.12	174.14	-0.37	1.63
-13	18	-1	24.70	25.53	-19.04	-17.01	221.79	-0.83	0.72
-10	18	-1	54.27	55.61	-55.40	4.88	174.96	-1.34	1.48
-7	18	-1	55.01	53.96	49.43	-21.63	336.36	1.05	1.50
-4	18	-1	33.50	34.50	34.46	-1.55	357.42	-0.99	0.94
-1	18	-1	42.55	42.36	-39.34	15.70	158.25	0.20	1.17
-18	19	-1	51.15	48.71	-39.86	-28.01	215.10	2.43	1.37
-15	19	-1	49.94	49.22	33.41	-36.15	312.74	0.72	1.37
-12	19	-1	25.66	26.23	-6.61	-25.39	255.41	-0.57	0.74
-9	19	-1	26.82	26.84	-20.90	-16.83	218.84	-0.02	0.77
-6	19	-1	67.72	67.90	-65.28	-18.67	195.96	-0.18	1.83
-3	19	-1	23.85	23.19	-23.16	-1.06	182.63	0.66	0.71
0	19	-1	63.08	61.73	-56.94	-23.85	202.73	1.34	1.72
-17	20	-1	11.35	10.09	-9.91	-1.87	190.69	1.26	0.58
-14	20	-1	53.98	54.47	51.20	18.57	19.94	-0.49	1.47
-11	20	-1	35.04	36.38	5.37	35.98	81.51	-1.35	0.98
-8	20	-1	46.20	46.06	-43.07	-16.32	200.76	0.13	1.27
-5	20	-1	60.18	59.25	59.25	-0.24	359.77	0.92	1.64
-2	20	-1	49.92	49.31	-20.30	-44.94	245.69	0.60	1.37
-16	21	-1	42.38	42.69	17.56	38.92	65.71	-0.31	1.17
-13	21	-1	68.48	68.19	-58.60	-34.87	210.75	0.29	1.86
-10	21	-1	73.04	74.03	59.19	44.47	36.91	-1.00	1.99
-7	21	-1	64.59	64.19	59.86	23.18	21.17	0.40	1.75
-4	21	-1	88.09	86.99	67.29	55.13	39.32	1.10	2.37
-12	22	-1	17.31	18.57	-11.35	14.71	127.65	-1.26	0.61
-9	22	-1	87.10	84.42	-84.41	1.11	179.24	2.68	2.35
-1	2	0	17.53	11.17	-11.17	0.06	179.69	6.35	0.48
-3	3	0	82.01	80.75	76.52	-25.79	341.38	1.26	2.16
0	3	0	81.91	80.27	75.81	26.40	19.20	1.63	2.16
-4	5	0	83.45	82.71	79.12	-24.09	343.07	0.74	2.20
-1	5	0	82.79	82.28	78.48	24.73	17.49	0.51	2.19
-6	6	0	64.02	69.36	55.07	-42.16	322.56	-5.34	1.71
-3	6	0	27.91	23.78	23.78	-0.53	358.73	4.12	0.77
0	6	0	61.48	68.58	53.27	43.19	39.03	-7.10	1.65
-5	7	0	32.34	29.18	-2.81	-29.04	264.48	3.16	0.88
-2	7	0	31.78	28.99	-3.14	28.82	96.23	2.79	0.87
-7	8	0	43.35	45.43	-43.82	12.02	164.66	-2.09	1.17
-4	8	0	97.84	91.17	91.17	0.10	0.06	6.67	2.59
-1	8	0	44.97	45.52	-43.67	-12.87	196.42	-0.56	1.23
-9	9	0	163.54	162.70	-53.22	-153.75	250.91	0.84	4.30
-6	9	0	31.10	33.48	-21.28	-25.84	230.53	-2.38	0.86
-3	9	0	32.92	33.67	-22.06	25.44	130.93	-0.75	0.90
0	9	0	163.99	162.35	-54.55	152.91	109.63	1.64	4.31
-8	10	0	102.76	99.83	-36.42	92.95	111.40	2.92	2.73
-2	10	0	103.24	99.75	-35.30	-93.29	249.27	3.49	2.74
-10	11	0	201.68	205.39	183.19	92.89	26.89	-3.71	5.29
-7	11	0	128.71	126.91	123.06	31.03	14.15	1.80	3.40
-4	11	0	129.46	126.91	123.46	-29.41	346.60	2.55	3.42
-1	11	0	208.95	206.02	184.85	-90.97	333.80	2.93	5.48
-12	12	0	72.25	73.67	-50.05	-54.06	227.21	-1.43	1.95
-9	12	0	132.95	137.33	-116.83	-72.18	211.71	-4.38	3.51
-6	12	0	185.02	185.34	185.34	1.07	0.33	-0.33	4.86
-3	12	0	134.12	137.12	-117.55	70.60	149.01	-3.00	3.54
0	12	0	70.27	73.41	-50.40	53.38	133.35	-3.14	1.90
-11	13	0	61.13	61.70	-30.43	53.67	119.55	-0.56	1.67
-8	13	0	64.88	66.39	-46.82	-47.07	225.16	-1.52	1.76
-5	13	0	66.48	66.29	-47.18	46.56	135.38	0.20	1.80
-2	13	0	61.86	61.96	-29.51	-54.48	241.55	-0.10	1.69
-13	14	0	32.63	33.04	-32.66	4.99	171.31	-0.42	0.88
-10	14	0	25.18	25.34	25.14	3.18	7.22	-0.16	0.72
-7	14	0	25.03	26.00	25.99	-0.41	359.10	-0.97	0.71
-4	14	0	24.25	25.22	25.03	-3.08	352.99	-0.98	0.69
-1	14	0	33.05	32.92	-32.45	-5.52	189.66	0.13	0.92
-15	15	0	133.99	139.00	138.39	12.98	5.36	-5.01	3.56
-12	15	0	39.74	39.35	-39.32	-1.55	182.25	0.39	1.10
-9	15	0	61.28	61.55	61.37	-4.79	355.53	-0.28	1.66
-6	15	0	60.52	60.86	60.55	6.15	5.80	-0.35	1.64
-3	15	0	39.78	39.69	-39.68	0.82	178.82	0.10	1.10
0	15	0	136.59	139.28	138.88	-10.57	355.65	-2.69	3.63

-14	16	0	24.20	25.22	23.33	-9.59	337.65	-1.03	0.64
-11	16	0	63.63	65.55	58.79	-29.00	333.75	-1.92	1.73
-8	16	0	68.58	69.77	-69.77	-0.81	180.67	-1.19	1.87
-5	16	0	63.86	65.32	57.88	30.28	27.62	-1.46	1.73
-2	16	0	25.35	25.17	23.07	10.08	23.61	0.17	0.72
-16	17	0	97.28	97.16	95.09	-19.94	348.16	0.12	2.64
-13	17	0	40.98	39.51	-4.82	-39.21	263.00	1.47	1.13
-10	17	0	22.28	23.18	-14.57	-18.02	231.04	-0.90	0.66
-7	17	0	23.51	23.05	-15.10	17.42	130.90	0.45	0.68
-4	17	0	39.36	38.85	-5.60	38.45	98.29	0.50	1.08
-1	17	0	97.34	97.22	94.63	22.29	13.25	0.12	2.65
-18	18	0	19.04	19.22	1.79	19.14	84.67	-0.18	0.51
-15	18	0	63.37	61.61	-3.17	61.53	92.95	1.76	1.72
-12	18	0	18.62	18.14	-6.99	-16.74	247.33	0.48	0.58
-9	18	0	23.74	24.09	24.09	0.24	0.58	-0.35	0.69
-6	18	0	18.94	18.39	-7.54	16.77	114.20	0.55	0.59
-3	18	0	64.07	62.19	-2.11	-62.16	268.05	1.88	1.74
0	18	0	18.21	19.82	2.54	-19.66	277.36	-1.62	0.61
-17	19	0	21.02	23.04	-21.82	-7.41	198.75	-2.02	0.65
-14	19	0	32.88	33.03	-16.84	-28.41	239.35	-0.15	0.92
-11	19	0	64.41	65.19	-65.15	-2.12	181.86	-0.78	1.75
-8	19	0	67.22	65.28	-65.28	0.86	179.25	1.94	1.83
-5	19	0	32.52	32.72	-17.27	27.80	121.85	-0.20	0.91
-2	19	0	21.44	23.20	-22.13	6.97	162.50	-1.76	0.66
-16	20	0	45.74	44.88	41.71	16.58	21.68	0.85	1.26
-13	20	0	57.77	57.51	-57.25	5.47	174.54	0.26	1.57
-10	20	0	91.97	93.42	93.42	0.91	0.56	-1.45	2.48
-7	20	0	57.45	57.59	-57.19	-6.77	186.75	-0.13	1.57
-4	20	0	45.78	44.91	42.12	-15.58	339.70	0.86	1.26
-15	21	0	53.78	52.47	52.44	-1.67	358.18	1.32	1.47
-12	21	0	107.34	107.20	107.06	5.57	2.98	0.14	2.91
-9	21	0	107.26	107.04	106.99	-3.24	358.26	0.22	2.91
-6	21	0	54.87	53.14	53.05	3.01	3.25	1.73	1.50
-14	22	0	36.07	34.78	-26.84	22.12	140.50	1.28	1.00
-11	22	0	100.92	100.46	100.45	1.11	0.64	0.46	2.72
-8	22	0	35.92	34.95	-26.31	-23.01	221.17	0.96	1.00
-1	1	1	91.35	94.37	-60.74	-72.22	229.93	-3.02	2.40
0	2	1	88.83	86.11	61.65	-60.11	315.72	2.72	2.33
-2	3	1	127.28	129.19	-110.65	66.67	148.93	-1.90	3.34
-4	4	1	57.09	54.89	-36.41	-41.07	228.45	2.20	1.53
-1	4	1	68.52	67.84	-48.32	47.62	135.42	0.68	1.82
-3	5	1	68.20	61.41	3.92	61.29	86.34	6.79	1.81
-5	6	1	131.54	132.71	116.28	-63.95	331.19	-1.17	3.46
-2	6	1	47.95	47.84	42.28	22.39	27.91	0.11	1.31
-7	7	1	58.21	59.34	-45.04	-38.63	220.62	-1.13	1.58
-4	7	1	122.27	111.78	77.30	80.74	46.25	10.49	3.22
-1	7	1	109.46	102.44	97.34	-31.95	341.83	7.01	2.89
-6	8	1	118.08	116.44	-81.27	83.39	134.26	1.63	3.11
-3	8	1	56.72	54.44	-21.70	-49.93	246.51	2.28	1.54
0	8	1	13.90	15.81	-7.41	-13.96	242.04	-1.91	0.43
-8	9	1	82.45	80.87	-21.51	77.95	105.43	1.59	2.20
-5	9	1	40.76	41.59	1.05	41.58	88.56	-0.83	1.11
-2	9	1	185.07	180.19	-104.26	146.96	125.35	4.89	4.86
-10	10	1	268.27	272.89	259.09	-85.70	341.70	-4.62	7.03
-7	10	1	66.38	64.33	-32.27	-55.65	239.89	2.05	1.80
-4	10	1	107.86	108.16	11.38	-107.56	276.04	-0.30	2.86
-1	10	1	72.19	75.30	68.69	-30.84	335.82	-3.11	1.95
-9	11	1	52.08	53.02	-22.03	-48.23	245.45	-0.94	1.41
-6	11	1	151.76	150.81	-92.57	-119.05	232.13	0.95	4.00
-3	11	1	70.00	70.63	-62.17	33.52	151.67	-0.64	1.90
0	11	1	186.60	189.22	189.22	0.78	0.24	-2.62	4.91
-11	12	1	127.70	127.59	112.19	-60.77	331.56	0.11	3.38
-8	12	1	73.26	75.17	-22.47	71.74	107.40	-1.91	1.99
-5	12	1	76.88	77.11	-68.33	35.74	152.39	-0.23	2.08
-2	12	1	77.22	77.41	-58.43	50.78	139.01	-0.20	2.10
-13	13	1	54.23	53.25	22.29	48.36	65.25	0.97	1.46
-10	13	1	83.96	84.29	17.02	82.55	78.35	-0.33	2.27
-7	13	1	36.30	36.23	-25.52	25.72	134.77	0.07	1.00
-4	13	1	55.22	56.73	-16.91	-54.15	252.66	-1.51	1.50
-1	13	1	6.08	6.59	-6.14	-2.41	201.40	-0.51	0.63
-12	14	1	85.13	91.32	-91.27	3.20	177.99	-6.19	2.31
-9	14	1	78.98	79.19	-74.51	-26.84	199.81	-0.21	2.15
-6	14	1	33.98	33.52	15.89	29.51	61.69	0.46	0.94
-3	14	1	70.39	71.80	1.57	71.79	88.75	-1.42	1.91
0	14	1	83.32	81.93	11.40	81.13	82.00	1.39	2.27
-14	15	1	41.53	41.33	-20.07	-36.13	240.94	0.21	1.12
-11	15	1	86.80	90.48	88.11	-20.57	346.86	-3.68	2.35
-8	15	1	28.54	27.76	12.03	25.02	64.33	0.78	0.81
-5	15	1	104.43	104.92	90.41	-53.24	329.51	-0.49	2.80
-2	15	1	70.75	70.86	-70.69	-4.83	183.91	-0.11	1.93
-16	16	1	24.55	24.09	3.60	-23.81	278.59	0.46	0.65
-13	16	1	73.44	73.82	-9.24	73.24	97.19	-0.38	2.00
-10	16	1	79.39	80.63	77.39	-22.62	343.71	-1.24	2.14
-7	16	1	84.12	84.59	78.94	-30.40	338.94	-0.47	2.29
-4	16	1	93.24	94.37	67.43	-66.02	315.61	-1.13	2.52
-1	16	1	70.27	71.10	-21.64	-67.72	252.28	-0.82	1.90
-15	17	1	23.30	23.11	-14.27	-18.18	231.86	0.18	0.68
-12	17	1	38.37	37.63	-32.24	19.40	148.96	0.74	1.06
-9	17	1	74.21	77.20	-54.39	54.79	134.79	-2.99	2.02
-6	17	1	93.78	94.06	82.65	-44.91	331.48	-0.28	2.54
-3	17	1	48.13	46.88	24.64	39.89	58.30	1.24	1.32
0	17	1	18.89	17.25	11.94	-12.44	313.82	1.64	0.61
-17	18	1	41.85	42.20	-38.80	-16.59	203.15	-0.36	1.12
-14	18	1	32.76	34.60	34.56	1.65	2.73	-1.84	0.92
-11	18	1	53.56	53.48	48.72	22.06	24.36	0.08	1.46
-8	18	1	52.17	55.62	-55.31	-5.84	186.03	-3.45	1.43

-5	18	1	24.85	25.23	-19.33	16.21	140.02	-0.38	0.72
-2	18	1	59.24	59.81	-59.30	-7.75	187.44	-0.57	1.61
-19	19	1	62.07	61.53	-57.09	22.96	158.09	0.54	1.67
-16	19	1	22.93	23.42	-23.42	0.49	178.79	-0.49	0.69
-13	19	1	68.28	68.22	-65.94	17.48	165.16	0.06	1.85
-10	19	1	26.70	26.75	-21.19	16.32	142.39	-0.05	0.77
-7	19	1	26.42	26.03	-7.05	25.05	105.72	0.39	0.76
-4	19	1	50.17	49.17	32.71	36.71	48.30	1.00	1.38
-1	19	1	50.81	48.66	-40.39	27.13	146.11	2.15	1.39
-18	20	1	49.58	49.10	-21.32	44.23	115.74	0.48	1.35
-15	20	1	59.94	59.59	59.56	2.02	1.94	0.35	1.63
-12	20	1	46.37	46.30	-43.62	15.51	160.43	0.07	1.28
-9	20	1	34.90	36.10	6.36	-35.53	280.15	-1.20	0.98
-6	20	1	53.69	54.03	51.19	-17.30	341.33	-0.34	1.47
-3	20	1	11.84	10.30	-10.17	1.62	170.93	1.54	0.57
-17	21	1	87.61	87.04	68.71	-53.43	322.13	0.57	2.36
-14	21	1	64.58	64.41	60.54	-21.98	340.05	0.17	1.75
-11	21	1	74.03	74.17	60.24	-43.27	324.31	-0.14	2.01
-8	21	1	69.76	67.93	-59.18	33.35	150.60	1.83	1.89
-5	21	1	40.41	41.86	18.01	-37.78	295.49	-1.44	1.12
-13	22	1	87.29	84.38	-84.33	-3.05	182.07	2.90	2.35
-10	22	1	19.82	18.80	-11.02	-15.24	234.12	1.01	0.64
-2	2	2	29.10	25.02	19.78	15.33	37.77	4.07	0.79
-3	4	2	66.61	67.39	47.15	48.16	45.61	-0.79	1.78
0	4	2	43.96	39.11	-26.68	28.60	133.00	4.85	1.19
-5	5	2	160.61	162.22	16.59	-161.37	275.87	-1.61	4.21
-2	5	2	119.36	112.76	-82.16	-77.24	223.23	6.60	3.14
-4	6	2	86.29	85.04	-71.13	46.61	146.76	1.24	2.29
-6	7	2	49.12	46.76	45.28	11.69	14.48	2.36	1.33
-3	7	2	228.45	215.39	176.39	123.61	35.02	13.06	5.98
0	7	2	52.17	53.91	9.11	53.14	80.27	-1.74	1.41
-8	8	2	52.39	50.60	-50.58	1.38	178.44	1.79	1.41
-5	8	2	43.79	43.67	16.40	-40.48	292.06	0.11	1.19
-2	8	2	88.76	88.05	-85.37	21.57	165.82	0.71	2.36
-7	9	2	121.04	121.53	-92.63	78.67	139.66	-0.49	3.20
-4	9	2	92.46	92.29	-51.61	76.52	124.00	0.17	2.46
-1	9	2	65.92	64.82	-64.69	4.06	176.41	1.10	1.79
-9	10	2	44.09	42.18	-38.27	-17.73	204.85	1.92	1.19
-6	10	2	123.90	124.87	121.48	-28.92	346.61	-0.97	3.27
-3	10	2	29.63	26.44	-5.10	25.95	101.12	3.18	0.82
0	10	2	120.04	118.74	100.60	-63.08	327.91	1.30	3.18
-11	11	2	9.90	9.28	-8.76	3.05	160.79	0.62	0.29
-8	11	2	100.47	102.15	-8.31	101.82	94.67	-1.69	2.68
-5	11	2	108.56	111.40	108.04	-27.14	345.90	-2.83	2.88
-2	11	2	27.73	28.08	26.95	7.87	16.27	-0.35	0.77
-10	12	2	57.79	59.28	-58.69	8.37	171.88	-1.49	1.56
-7	12	2	61.58	61.94	-44.91	42.66	136.47	-0.36	1.67
-4	12	2	94.29	96.62	-51.77	81.58	122.40	-2.33	2.53
-1	12	2	69.73	67.30	46.55	-48.60	313.76	2.43	1.89
-12	13	2	62.64	65.54	-56.72	32.84	149.93	-2.90	1.69
-9	13	2	64.97	65.88	-60.97	-24.96	202.27	-0.91	1.76
-6	13	2	26.12	26.69	12.88	-23.38	298.85	-0.57	0.74
-3	13	2	41.59	40.61	-39.50	9.46	166.54	0.98	1.14
0	13	2	59.70	61.10	-47.48	38.45	141.00	-1.40	1.63
-14	14	2	53.17	53.29	-27.73	45.50	121.36	-0.12	1.43
-11	14	2	35.54	35.71	-31.80	16.24	152.94	-0.17	0.99
-8	14	2	108.36	109.87	82.06	73.05	41.67	-1.51	2.89
-5	14	2	63.41	64.16	4.52	64.00	85.96	-0.75	1.71
-2	14	2	56.47	57.34	-18.91	54.13	109.26	-0.87	1.55
-13	15	2	38.11	37.20	12.22	35.14	70.83	0.90	1.03
-10	15	2	56.28	56.45	50.28	-25.66	332.96	-0.17	1.53
-7	15	2	60.00	60.08	-36.91	47.41	127.90	-0.08	1.63
-4	15	2	80.01	80.70	-48.84	-64.25	232.76	-0.69	2.16
-1	15	2	48.00	49.42	33.36	-36.47	312.45	-1.43	1.31
-15	16	2	50.55	52.39	36.12	-37.96	313.58	-1.84	1.36
-12	16	2	80.34	80.79	-13.22	-79.70	260.58	-0.45	2.17
-9	16	2	56.29	56.27	5.39	-56.01	275.50	0.01	1.53
-6	16	2	88.26	89.70	-80.72	-39.12	205.86	-1.44	2.40
-3	16	2	97.44	96.81	-62.87	73.61	130.50	0.64	2.64
0	16	2	30.41	32.55	32.45	-2.58	355.45	-2.14	0.86
-17	17	2	16.56	17.02	15.06	7.94	27.78	-0.47	0.45
-14	17	2	48.69	47.76	-6.40	47.33	97.70	0.92	1.33
-11	17	2	39.60	39.99	8.32	-39.12	282.00	-0.40	1.10
-8	17	2	47.49	48.23	-29.75	37.96	128.09	-0.74	1.30
-5	17	2	23.26	24.78	-18.98	15.93	139.99	-1.52	0.68
-2	17	2	48.97	50.38	24.75	43.87	60.57	-1.40	1.33
-16	18	2	60.43	60.46	34.54	49.63	55.16	-0.03	1.65
-13	18	2	59.63	57.95	46.33	34.82	36.93	1.68	1.63
-10	18	2	23.07	23.64	-15.63	17.73	131.41	-0.56	0.68
-7	18	2	44.19	45.63	-42.82	15.78	159.77	-1.44	1.21
-4	18	2	32.56	31.99	13.40	-29.05	294.76	0.57	0.91
-1	18	2	21.17	20.51	17.44	10.79	31.74	0.66	0.65
-18	19	2	32.78	32.18	-29.81	12.11	157.89	0.60	0.87
-15	19	2	19.93	21.71	-21.26	-4.41	191.72	-1.78	0.63
-12	19	2	37.98	37.87	-29.23	24.07	140.53	0.11	1.05
-9	19	2	27.85	27.97	6.09	27.30	77.42	-0.13	0.79
-6	19	2	65.38	64.58	-45.44	45.89	134.72	0.80	1.77
-3	19	2	33.44	32.70	-18.47	26.98	124.38	0.75	0.93
0	19	2	21.98	21.38	-17.84	-11.80	213.48	0.59	0.68
-17	20	2	17.87	18.87	-15.23	11.14	143.82	-1.01	0.61
-14	20	2	44.88	45.73	-40.24	-21.72	208.36	-0.85	1.23
-11	20	2	37.07	39.01	22.13	-32.12	304.57	-1.94	1.03
-8	20	2	51.64	49.74	-45.05	21.09	154.92	1.89	1.41
-5	20	2	27.25	26.25	12.94	-22.84	299.53	1.00	0.79
-2	20	2	44.47	43.24	-20.54	38.05	118.36	1.23	1.22
-16	21	2	26.94	26.24	-2.17	-26.15	265.26	0.70	0.78

-13	21	2	38.62	38.32	0.24	38.32	89.64	0.30	1.07
-10	21	2	80.35	80.53	78.92	-16.02	348.53	-0.18	2.17
-7	21	2	39.69	40.96	20.70	-35.35	300.36	-1.27	1.10
-12	22	2	49.69	48.77	41.94	24.89	30.69	0.92	1.36
-1	2	3	18.50	17.45	-13.51	11.04	140.73	1.05	0.50
-3	3	3	113.37	110.36	-109.40	14.53	172.43	3.00	2.99
0	3	3	121.43	120.98	-30.71	-117.01	255.30	0.46	3.20
-2	4	3	127.49	126.19	-82.07	95.85	130.57	1.30	3.35
-4	5	3	28.21	29.82	-10.89	-27.76	248.57	-1.61	0.76
-1	5	3	102.13	99.28	98.54	12.11	7.00	2.85	2.70
-6	6	3	143.36	138.37	-134.68	31.73	166.74	4.99	3.77
-3	6	3	91.42	90.35	21.89	87.66	75.98	1.07	2.43
0	6	3	279.24	269.04	216.80	-159.31	323.69	10.20	7.31
-5	7	3	20.93	17.89	-16.32	7.32	155.85	3.05	0.57
-2	7	3	19.06	17.41	9.49	14.59	56.97	1.65	0.54
-7	8	3	55.23	54.86	-53.74	11.01	168.42	0.37	1.49
-4	8	3	23.95	23.61	20.39	11.90	30.27	0.34	0.67
-1	8	3	106.49	106.95	-58.08	89.81	122.89	-0.46	2.83
-9	9	3	85.34	86.46	33.07	79.89	67.51	-1.12	2.29
-6	9	3	116.20	114.95	-46.92	104.94	114.09	1.25	3.08
-3	9	3	74.80	72.99	65.69	-31.80	334.17	1.81	2.02
0	9	3	54.57	55.12	55.08	1.95	2.03	-0.55	1.48
-8	10	3	34.71	36.91	-19.28	-31.47	238.51	-2.19	0.94
-5	10	3	126.86	127.34	-41.93	-120.24	250.78	-0.48	3.35
-2	10	3	96.54	96.24	-87.74	39.56	155.73	0.30	2.58
-10	11	3	169.04	172.97	159.22	-67.58	337.00	-3.93	4.45
-7	11	3	66.82	65.85	7.00	-65.48	276.11	0.97	1.80
-4	11	3	51.57	50.78	-37.85	-33.86	221.81	0.79	1.41
-1	11	3	18.95	18.80	-5.71	-17.91	252.33	0.15	0.56
-12	12	3	51.60	52.06	50.84	11.18	12.40	-0.45	1.39
-9	12	3	97.33	100.34	-52.42	85.56	121.50	-3.00	2.61
-6	12	3	28.23	28.57	23.59	-16.11	325.68	-0.34	0.79
-3	12	3	42.69	44.87	-32.58	30.85	136.56	-2.18	1.17
0	12	3	24.45	22.48	19.31	11.51	30.80	1.97	0.70
-11	13	3	34.31	34.51	4.37	34.23	82.72	-0.20	0.92
-8	13	3	24.00	24.22	-22.61	-8.67	200.98	-0.22	0.68
-5	13	3	61.93	61.22	-53.91	29.00	151.72	0.71	1.68
-2	13	3	77.67	78.17	-54.75	55.79	134.46	-0.50	2.09
-13	14	3	18.54	18.71	-18.67	-1.15	183.53	-0.17	0.50
-10	14	3	9.27	7.71	5.38	-5.52	314.28	1.56	0.50
-7	14	3	81.51	83.78	53.61	64.38	50.22	-2.26	2.22
-4	14	3	44.77	46.03	43.06	16.27	20.69	-1.26	1.22
-1	14	3	58.67	59.01	-53.34	25.23	154.68	-0.34	1.59
-15	15	3	85.67	89.17	64.51	-61.56	316.34	-3.50	2.31
-12	15	3	68.69	70.01	-41.90	56.09	126.76	-1.32	1.86
-9	15	3	100.46	100.27	-97.60	-22.99	193.26	0.19	2.70
-6	15	3	93.75	95.21	31.78	-89.75	289.50	-1.46	2.54
-3	15	3	19.95	20.75	18.80	-8.79	334.93	-0.80	0.61
0	15	3	9.13	9.31	7.15	-5.97	320.14	-0.18	0.58
-14	16	3	30.54	29.40	-28.94	5.14	169.93	1.14	0.82
-11	16	3	37.89	37.29	-8.58	-36.29	256.69	0.59	1.05
-8	16	3	72.01	71.58	9.80	70.90	82.13	0.43	1.94
-5	16	3	93.91	96.49	88.07	-39.42	335.89	-2.57	2.55
-2	16	3	29.31	30.19	-10.10	-28.45	250.45	-0.88	0.83
-16	17	3	61.47	61.21	-39.30	-46.93	230.06	0.25	1.65
-13	17	3	41.42	42.08	-3.45	41.94	94.70	-0.67	1.14
-10	17	3	46.48	48.64	30.82	37.63	50.69	-2.16	1.27
-7	17	3	67.79	68.69	67.90	10.38	8.69	-0.90	1.84
-4	17	3	60.93	59.79	42.30	42.26	44.97	1.14	1.65
-1	17	3	76.07	75.47	-8.48	-75.00	263.55	0.60	2.06
-18	18	3	62.74	60.64	60.08	-8.20	352.23	2.10	1.68
-15	18	3	38.37	37.83	36.38	10.40	15.95	0.53	1.06
-12	18	3	78.93	77.69	-77.49	-5.56	184.10	1.24	2.13
-9	18	3	77.41	78.62	-77.67	-12.18	188.91	-1.21	2.09
-6	18	3	32.08	29.99	-28.54	-9.23	197.93	2.08	0.90
-3	18	3	51.55	51.99	12.93	50.35	75.60	-0.43	1.41
0	18	3	77.06	75.33	-1.80	75.31	91.37	1.73	2.08
-17	19	3	59.53	60.52	-49.95	34.16	145.63	-0.98	1.62
-14	19	3	22.64	22.89	7.89	21.49	69.85	-0.25	0.68
-11	19	3	42.72	42.43	-9.69	41.30	103.20	0.29	1.18
-8	19	3	20.90	20.63	3.55	20.32	80.09	0.27	0.65
-5	19	3	28.91	27.66	9.25	26.07	70.46	1.25	0.83
-2	19	3	27.07	25.61	-24.68	-6.84	195.50	1.46	0.78
-16	20	3	26.69	27.08	25.64	-8.71	341.23	-0.39	0.78
-13	20	3	29.06	28.06	-9.88	26.26	110.62	1.01	0.83
-10	20	3	46.12	46.99	36.42	-29.70	320.81	-0.88	1.27
-7	20	3	36.70	36.55	1.87	36.50	87.07	0.15	1.02
-4	20	3	36.31	35.68	-2.35	-35.60	266.22	0.63	1.01
-12	21	3	42.89	42.71	-25.98	-33.90	232.54	0.17	1.18
-9	21	3	45.64	45.34	-8.37	-44.56	259.36	0.30	1.26
-1	1	4	101.35	101.47	20.41	-99.40	281.61	-0.12	2.68
0	2	4	87.07	84.22	-48.30	68.99	124.99	2.85	2.32
-2	3	4	30.57	30.34	-20.65	22.22	132.89	0.23	0.82
-4	4	4	131.37	129.80	126.06	-30.95	346.21	1.57	3.46
-1	4	4	36.75	35.35	-10.54	33.74	107.35	1.41	1.01
-3	5	4	64.13	64.01	-60.77	-20.12	198.32	0.11	1.74
0	5	4	303.22	294.89	-226.18	-189.22	219.92	8.32	7.93
-5	6	4	219.45	219.48	61.48	-210.70	286.27	-0.03	5.75
-2	6	4	111.12	109.54	-1.22	-109.54	269.36	1.58	2.94
-7	7	4	88.51	87.93	83.83	-26.54	342.43	0.58	2.37
-4	7	4	198.18	197.79	132.36	146.98	48.00	0.39	5.20
-1	7	4	31.57	30.18	-4.85	-29.79	260.75	1.39	0.87
-6	8	4	72.14	73.20	-43.96	58.53	126.91	-1.06	1.96
-3	8	4	102.69	103.37	-64.83	80.52	128.84	-0.69	2.73
0	8	4	13.34	13.22	-6.00	-11.79	243.04	0.12	0.47
-8	9	4	48.58	47.45	-47.43	-1.48	181.79	1.13	1.31

-5	9	4	112.83	115.74	28.87	-112.08	284.44	-2.91	3.00
-2	9	4	46.88	46.94	-33.54	32.84	135.60	-0.06	1.28
-10	10	4	157.28	160.12	-29.85	-157.31	259.25	-2.84	4.15
-7	10	4	47.39	48.18	20.15	43.76	65.27	-0.79	1.29
-4	10	4	55.53	57.36	-47.54	-32.10	214.03	-1.83	1.51
-1	10	4	65.71	66.11	29.42	-59.20	296.42	-0.39	1.78
-9	11	4	31.87	32.38	-21.97	23.79	132.72	-0.51	0.86
-6	11	4	73.56	76.48	-35.65	-67.66	242.21	-2.93	1.98
-3	11	4	56.73	55.93	18.71	52.71	70.46	0.80	1.53
0	11	4	205.33	204.52	144.64	-144.59	315.01	0.82	5.40
-11	12	4	64.50	64.54	-39.38	-51.13	232.40	-0.04	1.73
-8	12	4	32.88	33.97	-18.06	28.78	122.10	-1.09	0.91
-5	12	4	35.97	34.31	4.00	-34.08	276.70	1.66	0.99
-2	12	4	36.00	36.51	23.70	-27.77	310.49	-0.51	0.99
-13	13	4	7.77	7.07	6.60	-2.53	339.01	0.70	0.27
-10	13	4	12.42	12.23	-8.26	-9.02	227.51	0.19	0.48
-7	13	4	83.89	83.92	-69.97	46.34	146.49	-0.03	2.25
-4	13	4	67.27	68.64	-64.06	24.66	158.95	-1.37	1.82
-1	13	4	31.09	30.41	5.50	29.91	79.59	0.68	0.87
-12	14	4	55.27	55.60	-3.26	55.51	93.36	-0.33	1.49
-9	14	4	46.60	47.08	45.02	13.77	17.00	-0.48	1.27
-6	14	4	104.83	107.14	67.70	83.05	50.82	-2.31	2.82
-3	14	4	26.80	27.23	12.98	-23.94	298.46	-0.43	0.76
0	14	4	55.44	55.95	36.85	-42.10	311.20	-0.50	1.51
-14	15	4	48.57	48.81	-48.64	4.12	175.15	-0.25	1.30
-11	15	4	81.24	82.65	-7.66	-82.30	264.68	-1.42	2.20
-8	15	4	55.95	56.46	50.17	-25.91	332.69	-0.52	1.52
-5	15	4	93.46	93.71	-38.18	-85.59	245.96	-0.25	2.51
-2	15	4	74.23	75.24	0.62	75.23	89.53	-1.01	2.01
-16	16	4	95.95	95.55	-9.34	-95.10	264.39	0.39	2.58
-13	16	4	41.85	42.82	41.97	-8.52	348.53	-0.97	1.16
-10	16	4	123.58	127.31	28.65	-124.05	283.00	-3.73	3.30
-7	16	4	69.60	71.34	-66.44	-25.99	201.37	-1.74	1.89
-4	16	4	103.70	104.92	-87.22	-58.32	213.77	-1.22	2.80
-1	16	4	69.67	68.12	-48.08	-48.26	225.11	1.55	1.88
-15	17	4	48.94	48.37	41.20	25.35	31.60	0.56	1.31
-12	17	4	50.72	52.87	44.90	-27.92	328.12	-2.16	1.39
-9	17	4	43.98	43.32	19.50	38.69	63.25	0.65	1.20
-6	17	4	94.35	94.49	-40.64	-85.30	244.52	-0.14	2.54
-3	17	4	23.35	25.08	22.96	10.10	23.75	-1.74	0.69
0	17	4	36.19	37.25	19.75	-31.58	302.03	-1.06	1.01
-17	18	4	44.11	41.46	-34.01	23.71	145.11	2.66	1.18
-14	18	4	40.11	40.67	-7.57	39.96	100.73	-0.56	1.11
-11	18	4	30.98	31.04	29.18	10.57	19.92	-0.06	0.87
-8	18	4	28.49	27.76	-18.32	20.86	131.28	0.73	0.81
-5	18	4	61.66	61.50	41.39	45.48	47.69	0.17	1.67
-2	18	4	56.33	55.50	-1.35	55.48	91.40	0.83	1.53
-16	19	4	18.04	18.89	16.36	9.44	30.00	-0.84	0.62
-13	19	4	11.33	9.19	8.72	2.89	18.34	2.15	0.56
-10	19	4	16.35	16.05	10.98	11.71	46.84	0.29	0.58
-7	19	4	37.54	36.38	-24.13	27.23	131.55	1.16	1.04
-4	19	4	10.80	12.23	0.87	-12.20	274.08	-1.43	0.61
-12	20	4	14.16	14.35	-1.55	14.26	96.21	-0.19	0.57
-9	20	4	53.71	51.86	-43.21	-28.68	213.58	1.84	1.46
-6	20	4	42.73	41.85	7.16	-41.23	279.86	0.88	1.17
0	1	5	145.22	145.51	18.71	-144.30	277.39	-0.29	3.82
-2	2	5	66.30	64.99	32.62	56.22	59.88	1.31	1.80
-1	3	5	34.65	35.18	20.51	28.59	54.34	-0.54	0.94
-3	4	5	32.47	35.33	8.98	-34.17	284.73	-2.85	0.88
0	4	5	144.96	149.85	-30.58	-146.70	258.22	-4.89	3.82
-5	5	5	309.77	311.06	-307.35	-47.90	188.86	-1.29	8.11
-2	5	5	92.24	94.52	8.07	94.17	85.10	-2.28	2.47
-4	6	5	12.53	12.17	0.30	-12.17	271.41	0.35	0.34
-1	6	5	52.97	55.53	-49.89	-24.38	206.04	-2.56	1.44
-6	7	5	82.71	82.18	-76.03	-31.19	202.31	0.52	2.23
-3	7	5	100.74	103.41	99.45	28.34	15.90	-2.67	2.69
0	7	5	9.97	11.13	8.89	-6.69	323.01	-1.15	0.46
-8	8	5	82.00	83.50	-42.62	71.80	120.69	-1.50	2.22
-5	8	5	12.76	13.01	12.59	3.25	14.48	-0.24	0.46
-2	8	5	24.62	24.41	13.19	20.54	57.29	0.21	0.70
-7	9	5	73.12	73.37	72.90	8.29	6.49	-0.25	1.97
-4	9	5	44.55	43.14	33.45	-27.25	320.83	1.41	1.22
-1	9	5	49.21	49.97	35.32	35.35	45.03	-0.76	1.34
-9	10	5	23.70	23.52	-19.68	-12.89	213.22	0.18	0.63
-6	10	5	64.31	65.56	-43.04	-49.45	228.96	-1.24	1.74
-3	10	5	21.12	22.05	0.75	-22.04	271.94	-0.93	0.62
0	10	5	112.33	115.17	-98.77	-59.23	210.95	-2.84	3.00
-11	11	5	56.91	58.85	36.60	-46.08	308.45	-1.94	1.54
-8	11	5	37.40	37.74	37.51	4.14	6.30	-0.34	1.03
-5	11	5	166.08	168.97	-85.84	-145.55	239.47	-2.89	4.38
-2	11	5	75.26	75.89	-71.17	-26.36	200.32	-0.63	2.04
-10	12	5	27.88	27.49	23.48	-14.29	328.67	0.40	0.74
-7	12	5	77.88	78.45	60.42	-50.04	320.37	-0.57	2.10
-4	12	5	70.07	71.68	58.23	41.79	35.67	-1.60	1.89
-1	12	5	78.73	79.87	-78.99	-11.83	188.52	-1.14	2.13
-12	13	5	61.91	62.47	-29.49	55.07	118.17	-0.57	1.67
-9	13	5	67.88	70.73	-47.92	52.03	132.64	-2.86	1.84
-6	13	5	55.16	55.85	55.70	4.20	4.32	-0.69	1.49
-3	13	5	88.78	89.05	52.47	71.95	53.90	-0.27	2.39
0	13	5	64.16	63.90	63.01	10.62	9.57	0.26	1.74
-14	14	5	72.54	73.58	73.39	5.23	4.07	-1.04	1.95
-11	14	5	52.63	52.42	52.40	-1.19	358.70	0.21	1.44
-8	14	5	47.22	47.17	44.31	16.20	20.08	0.05	1.29
-5	14	5	65.70	67.27	-18.74	-64.61	253.83	-1.56	1.79
-2	14	5	24.96	24.36	-24.21	-2.68	186.31	0.60	0.72
-13	15	5	13.14	13.40	6.47	-11.74	298.85	-0.26	0.37

-10	15	5	140.14	141.55	-120.39	-74.45	211.73	-1.41	3.73
-7	15	5	62.82	64.09	45.27	45.37	45.07	-1.27	1.70
-4	15	5	23.27	22.00	-21.88	2.27	174.09	1.28	0.68
-1	15	5	40.93	41.03	-28.46	-29.56	226.09	-0.10	1.13
-15	16	5	84.30	85.77	-54.50	-66.22	230.54	-1.46	2.27
-12	16	5	88.40	87.30	-87.30	0.08	179.95	1.10	2.39
-9	16	5	53.29	54.11	-41.50	34.72	140.09	-0.82	1.45
-6	16	5	59.88	60.19	-44.21	-40.84	222.73	-0.31	1.62
-3	16	5	57.95	56.68	50.53	25.68	26.94	1.26	1.57
0	16	5	75.46	74.92	-22.34	-71.51	252.65	0.53	2.04
-14	17	5	74.20	75.67	69.13	30.78	24.00	-1.47	2.00
-11	17	5	76.40	75.19	-68.97	-29.95	203.47	1.21	2.07
-8	17	5	16.37	16.10	15.88	2.62	9.37	0.28	0.57
-5	17	5	35.34	34.98	0.82	-34.97	271.34	0.37	0.98
-2	17	5	17.49	17.15	10.06	-13.89	305.91	0.34	0.60
-13	18	5	17.53	17.81	-9.43	15.11	121.98	-0.28	0.60
-10	18	5	31.17	30.44	18.41	-24.24	307.21	0.73	0.88
-7	18	5	55.74	55.73	3.80	55.60	86.09	0.01	1.51
-4	18	5	65.53	66.14	42.59	50.60	49.91	-0.61	1.78
-12	19	5	35.27	35.56	6.98	34.87	78.68	-0.29	0.98
-6	19	5	9.01	9.12	7.17	5.63	38.11	-0.11	0.66
0	0	6	208.46	220.43	-69.34	209.24	108.33	-11.97	5.47
-1	2	6	50.12	51.80	-43.33	-28.39	213.23	-1.68	1.36
-3	3	6	111.61	118.29	68.01	96.78	54.90	-6.67	2.97
0	3	6	78.24	76.48	62.50	44.09	35.20	1.76	2.12
-2	4	6	44.63	47.05	28.87	-37.16	307.84	-2.42	1.20
-4	5	6	19.73	19.47	16.32	-10.61	326.97	0.27	0.52
-1	5	6	60.45	61.91	-55.73	-26.96	205.81	-1.46	1.65
-6	6	6	48.51	49.04	20.19	-44.69	294.32	-0.52	1.31
-3	6	6	84.20	85.94	85.87	3.57	2.38	-1.74	2.28
0	6	6	119.39	121.51	-100.15	-68.81	214.49	-2.13	3.18
-5	7	6	47.08	47.61	33.01	34.31	46.10	-0.53	1.28
-2	7	6	47.05	47.64	47.48	3.98	4.79	-0.59	1.28
-7	8	6	30.80	31.27	23.53	20.60	41.21	-0.47	0.83
-4	8	6	72.04	72.40	60.53	39.72	33.28	-0.36	1.95
-1	8	6	70.70	71.95	71.94	-0.99	359.21	-1.25	1.92
-9	9	6	94.07	95.30	66.13	-68.62	313.94	-1.23	2.54
-6	9	6	24.93	26.58	25.24	-8.33	341.74	-1.65	0.71
-3	9	6	27.29	26.71	-26.02	-6.05	193.09	0.58	0.77
0	9	6	86.24	87.19	-75.83	-43.02	209.56	-0.94	2.32
-8	10	6	20.14	19.41	-3.65	19.07	100.84	0.73	0.54
-5	10	6	139.45	144.06	-143.93	6.15	177.55	-4.62	3.70
-2	10	6	67.84	69.20	60.27	33.99	29.42	-1.36	1.84
-10	11	6	60.85	62.94	-61.25	14.48	166.70	-2.09	1.64
-7	11	6	44.27	45.97	-34.97	29.85	139.52	-1.70	1.22
-4	11	6	25.46	25.88	-17.59	18.99	132.81	-0.43	0.73
-1	11	6	75.53	76.12	73.07	21.35	16.29	-0.60	2.05
-12	12	6	84.06	83.96	55.48	-63.02	311.36	0.10	2.25
-9	12	6	78.36	80.77	71.61	-37.37	332.44	-2.42	2.12
-6	12	6	81.20	80.87	-66.31	46.28	145.09	0.34	2.20
-3	12	6	38.31	37.54	-34.59	-14.58	202.86	0.77	1.05
0	12	6	31.58	31.91	-25.58	-19.08	216.72	-0.33	0.88
-11	13	6	4.08	4.45	-0.03	-4.45	269.65	-0.37	0.38
-8	13	6	26.19	26.58	11.57	23.93	64.19	-0.39	0.75
-5	13	6	9.84	9.24	8.39	-3.87	335.24	0.60	0.54
-2	13	6	67.96	68.65	67.50	12.49	10.48	-0.69	1.84
-13	14	6	33.05	32.09	28.27	15.18	28.23	0.96	0.88
-10	14	6	17.08	17.06	13.33	-10.65	321.36	0.02	0.57
-7	14	6	74.13	75.14	74.46	10.09	7.71	-1.02	2.01
-4	14	6	18.43	18.12	16.37	-7.75	334.66	0.32	0.60
-1	14	6	32.41	31.47	26.71	16.64	31.92	0.95	0.91
-15	15	6	74.48	73.50	-73.48	-1.35	181.06	0.98	2.00
-12	15	6	13.51	13.35	6.42	11.71	61.28	0.15	0.54
-9	15	6	21.56	22.04	-2.85	21.86	97.42	-0.48	0.66
-6	15	6	16.83	17.05	-16.92	2.13	172.82	-0.22	0.58
-3	15	6	24.69	23.75	23.24	-4.90	348.09	0.94	0.73
0	15	6	68.84	68.04	-66.99	-11.95	190.11	0.79	1.86
-14	16	6	17.76	17.96	4.28	17.44	76.21	-0.20	0.48
-11	16	6	29.67	29.54	-19.08	-22.55	229.77	0.13	0.85
-8	16	6	35.68	35.31	25.68	-24.23	316.67	0.37	0.99
-5	16	6	81.01	81.78	-75.21	-32.11	203.12	-0.77	2.19
-2	16	6	21.10	20.50	-12.54	16.22	127.69	0.60	0.66
-13	17	6	61.16	60.93	60.27	8.91	8.41	0.24	1.66
-10	17	6	36.18	36.45	35.06	-9.95	344.15	-0.27	1.01
-7	17	6	33.65	32.75	7.80	-31.81	283.78	0.91	0.94
-4	17	6	22.77	23.42	22.76	-5.54	346.32	-0.65	0.70
-9	18	6	71.75	70.72	25.38	66.01	68.96	1.03	1.93
-1	1	7	64.55	64.96	43.22	-48.50	311.71	-0.41	1.74
0	2	7	73.93	75.02	48.62	57.13	49.60	-1.09	2.00
-2	3	7	48.71	48.85	48.61	-4.83	354.33	-0.14	1.31
-4	4	7	74.99	74.32	-27.64	-68.99	248.17	0.67	2.03
-1	4	7	24.14	24.34	-20.61	-12.94	212.12	-0.19	0.69
-3	5	7	50.71	51.20	28.61	42.46	56.03	-0.49	1.36
0	5	7	62.98	64.79	-48.84	42.57	138.92	-1.81	1.71
-5	6	7	100.74	102.58	-102.22	8.65	175.16	-1.84	2.71
-2	6	7	35.70	35.13	-31.75	15.04	154.65	0.57	0.98
-7	7	7	49.76	50.47	26.86	-42.73	302.16	-0.71	1.34
-4	7	7	91.16	92.24	89.43	-22.60	345.82	-1.08	2.47
-1	7	7	30.72	29.58	-13.63	26.26	117.42	1.14	0.86
-6	8	7	26.21	25.85	17.73	-18.81	313.31	0.36	0.70
-3	8	7	58.19	59.28	55.72	20.21	19.94	-1.09	1.58
0	8	7	65.45	65.43	62.82	18.30	16.24	0.02	1.77
-8	9	7	34.70	35.26	-22.67	27.00	130.02	-0.56	0.93
-5	9	7	16.26	15.77	-11.37	10.93	136.12	0.49	0.54
-2	9	7	28.20	29.34	-28.50	-6.98	193.76	-1.15	0.79
-10	10	7	34.66	34.84	-30.55	16.75	151.27	-0.18	0.93

-7	10	7	74.97	77.34	77.33	1.37	1.01	-2.38	2.02
-4	10	7	41.78	42.43	41.69	-7.91	349.25	-0.65	1.15
-1	10	7	21.57	22.23	-20.77	-7.91	200.85	-0.66	0.65
-9	11	7	12.94	12.56	9.22	-8.54	317.19	0.38	0.37
-6	11	7	62.82	63.27	20.70	-59.79	289.10	-0.45	1.70
-3	11	7	47.28	47.06	40.98	-23.14	330.55	0.22	1.29
0	11	7	63.71	64.90	-64.38	8.21	172.74	-1.19	1.72
-11	12	7	30.77	31.45	-8.09	30.39	104.90	-0.68	0.81
-8	12	7	28.72	29.29	15.38	24.93	58.33	-0.57	0.82
-5	12	7	22.69	22.65	-19.15	-12.11	212.30	0.04	0.68
-2	12	7	19.86	19.55	-14.62	-12.98	221.58	0.31	0.63
-13	13	7	52.94	50.65	-13.25	48.89	105.17	2.29	1.42
-10	13	7	34.49	34.45	-4.26	34.18	97.11	0.05	0.96
-7	13	7	62.20	62.13	62.13	-0.10	359.91	0.07	1.68
-4	13	7	71.98	72.26	68.16	24.01	19.40	-0.28	1.94
-1	13	7	31.28	31.45	30.28	-8.50	344.32	-0.18	0.88
-12	14	7	45.46	45.80	28.31	-36.00	308.19	-0.34	1.22
-9	14	7	51.03	51.65	-5.57	-51.35	263.80	-0.63	1.39
-6	14	7	34.11	34.80	31.41	14.97	25.49	-0.69	0.95
-3	14	7	20.28	20.52	-13.18	15.73	129.97	-0.24	0.64
0	14	7	12.92	13.90	-13.61	-2.83	191.74	-0.98	0.60
-11	15	7	38.98	39.95	-39.16	7.92	168.56	-0.97	1.08
-8	15	7	49.04	47.99	44.81	17.18	20.98	1.05	1.34
-5	15	7	65.08	64.95	-64.12	-10.35	189.17	0.13	1.76
-2	15	7	20.50	20.66	14.91	-14.31	316.17	-0.17	0.65
-10	16	7	65.88	65.85	-65.85	0.22	179.81	0.04	1.78
-7	16	7	42.65	42.95	-4.22	42.74	95.64	-0.30	1.17
0	1	8	90.48	92.96	-87.41	31.64	160.10	-2.48	2.43
-2	2	8	28.69	30.48	9.89	28.83	71.06	-1.79	0.76
-1	3	8	46.33	45.87	6.59	-45.39	278.26	0.46	1.25
-3	4	8	40.56	42.02	-2.63	41.93	93.59	-1.46	1.09
0	4	8	28.08	28.48	-22.17	17.87	141.13	-0.40	0.79
-5	5	8	44.26	42.23	-39.32	15.39	158.62	2.03	1.19
-2	5	8	55.40	57.62	53.16	-22.23	337.31	-2.22	1.51
-4	6	8	25.31	24.60	-21.36	-12.21	209.75	0.71	0.67
-1	6	8	65.26	64.98	-53.47	-36.93	214.63	0.27	1.76
-6	7	8	46.56	46.77	-35.10	30.90	138.64	-0.20	1.25
-3	7	8	89.92	89.57	76.20	47.07	31.71	0.35	2.42
0	7	8	24.73	24.93	19.86	15.08	37.21	-0.20	0.72
-8	8	8	19.81	20.63	20.58	-1.50	355.84	-0.82	0.53
-5	8	8	59.34	60.19	54.92	24.63	24.16	-0.85	1.61
-2	8	8	58.24	58.11	52.70	-24.48	335.08	0.13	1.58
-7	9	8	29.37	29.73	6.45	-29.02	282.53	-0.36	0.78
-4	9	8	95.17	98.02	-93.29	-30.09	197.88	-2.85	2.56
-1	9	8	22.14	22.60	20.38	-9.75	334.43	-0.45	0.67
-9	10	8	9.28	9.27	8.54	3.58	22.76	0.01	0.31
-6	10	8	65.67	66.83	-55.81	36.76	146.63	-1.15	1.77
-3	10	8	7.92	7.54	3.27	6.79	64.30	0.39	0.68
0	10	8	33.23	33.11	-26.21	20.22	142.35	0.12	0.93
-11	11	8	21.47	22.64	-22.54	2.18	174.48	-1.17	0.57
-8	11	8	18.44	18.12	16.62	-7.21	336.55	0.32	0.61
-5	11	8	124.18	122.06	-116.06	37.78	161.97	2.12	3.33
-2	11	8	41.83	42.83	-17.60	39.04	114.27	-1.00	1.15
-10	12	8	24.69	24.90	4.83	-24.43	281.17	-0.21	0.66
-7	12	8	50.36	49.54	-49.39	-3.84	184.45	0.82	1.38
-4	12	8	30.32	28.92	-11.82	-26.39	245.87	1.40	0.86
-1	12	8	26.31	24.99	-8.60	23.46	110.13	1.32	0.77
-9	13	8	40.64	39.54	36.76	-14.57	338.37	1.10	1.12
-6	13	8	62.62	63.05	58.15	-24.39	337.25	-0.43	1.69
-3	13	8	24.51	25.11	22.75	-10.62	334.97	-0.59	0.73
0	0	9	82.74	82.61	35.30	74.69	64.70	0.13	2.22
-1	2	9	28.55	28.27	-12.16	25.52	115.48	0.29	0.76
-3	3	9	83.75	83.14	46.63	-68.83	304.12	0.61	2.25
0	3	9	43.10	43.85	39.21	-19.64	333.40	-0.75	1.19
-2	4	9	26.80	26.35	2.51	-26.23	275.47	0.46	0.71
-4	5	9	44.98	45.72	-18.57	41.78	113.96	-0.75	1.20
-1	5	9	103.26	104.17	-91.23	50.29	151.14	-0.91	2.77
-6	6	9	78.52	80.85	-78.69	18.58	166.72	-2.33	2.11
-3	6	9	40.10	38.62	30.66	-23.48	322.55	1.48	1.10
0	6	9	97.93	98.66	-43.82	88.39	116.37	-0.73	2.64
-5	7	9	24.56	24.44	10.91	-21.87	296.50	0.12	0.65
-2	7	9	29.24	29.90	-26.09	14.61	150.75	-0.66	0.83
-7	8	9	55.77	53.29	44.66	-29.07	326.94	2.48	1.49
-4	8	9	43.33	42.11	40.81	-10.41	345.69	1.22	1.19
-1	8	9	41.68	40.68	-5.24	-40.35	262.61	0.99	1.15
-9	9	9	80.95	80.14	-77.92	18.71	166.49	0.81	2.17
-6	9	9	29.97	28.98	-25.91	-13.00	206.65	0.98	0.85
-3	9	9	48.83	47.87	19.80	43.58	65.56	0.96	1.33
0	9	9	47.08	46.91	-7.27	46.34	98.92	0.17	1.29
-5	10	9	50.27	48.86	-19.82	44.66	113.93	1.40	1.37
-1	1	10	41.57	41.98	2.99	41.87	85.92	-0.41	1.11
0	2	10	53.76	53.72	-21.75	-49.11	246.11	0.05	1.44
-2	3	10	30.85	30.31	13.10	-27.33	295.61	0.54	0.82

13.1 seconds elapsed time

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+ Finished at 11:47:41   Total elapsed time: 180.76 secs +
++

for deposit

Table 4. Selected interatomic distances (Å) and angles (°) in dravite

Si-O4a	1.626(2)	O4a-Si-O5b		104.1(1)
Si-O5b	1.645(2)	O4a-Si-O6		111.3(2)
Si-O6	1.606(3)	O4a-Si-O7c		109.6(1)
Si-O7c	1.605(2)	O5b-Si-O6		110.3(1)
	-----	O5b-Si-O7c		109.7(1)
<Si-O>	1.621	O6-Si-O7c		111.3(1)

		<O-Si-O>		109.4
B-O2	1.372(1)	O2-B-O8d	x2	120.4(1)
B-O8a,d	1.375(2)	O8d-B-O8e		119.1(2)
	-----			-----
<B-O>	1.374	<O-B-O>		120.0
Z-O3e	2.002(2)	O3e-Z-O6		81.3(1)
Z-O6	1.915(3)	O3e-Z-O7g		96.1(1)
Z-O7f	1.960(2)	O3e-Z-O8		89.8(1)
Z-O7g	1.909(3)	O3e-Z-O8g		96.7(1)
Z-O8	1.931(3)	O6-Z-O7f		92.9(1)
Z-O8g	1.900(3)	O6-Z-O8		91.2(1)
	-----	O6-Z-O8g		94.7(1)
<Z-O>	1.936	O7f-Z-O7g		90.7(1)
		O7f-Z-O8		96.4(1)

		07f-Z-08g		77.6(1)
		07g-Z-08		78.1(1)
		07g-Z-08g		96.2(1)

		<0-Z-0>		90.1
Y-01h	1.953(2)	01h-Y-02i,j		84.1(1)
Y-02i,j	2.002(2)	01h-Y-06e,k		100.1(1)
Y-03	2.117(2)	02i-Y-02j		93.7(1)
Y-06e,k	1.989(2)	02i,j-Y-06e,k		88.6(1)
	-----	03-Y-02i,j		98.8(1)
<Y-0>	2.009	03-Y-06e,k		76.8(1)
		06e-Y-06k		88.7(1)

		<0-Y-0>		90.0
X-02a,h,l	2.504)2)	02a-X-02h	x3	71.4(1)
X-04m,n,o	2.842(1)	02a-X-04m	x6	127.5(1)
X-05e,p,q	2.747(1)	02a-X-04o	x3	71.6(1)
	-----	02a-X-05e	x6	87.4(1)
<X-0>	2.698	04m-X-04n	x3	104.6(1)
		04m-X-05e	x6	55.0(1)
		04n-X-05p	x3	134.7(1)
		05e-X-05p	x3	107.6(1)

Table 4 (cont)

Equivalent positions: a:-x+y,y,z; b:x,x-y,1+z; c: x,y,1+z; d:1-y,1+x-y,z; e:x,x-y,z; f:1/3-y,2/3+x-y,2/3+z; g:2/3-x+y, 1+1/3-x,1/3+z; h:1-x+y,1-x,z; i:1+x,1+x-y,z; j:-x+y,-x,z; k:1-x+y,1-x,z; l:1+x,2+x-y,z; m: 1+x,y,-1+z; n:1+x,2+x-y, -1+z; o:-x+y,y,-1+z; p:x,1+y,z; q:2-x+y,1+y,z.
