

7163

Description and crystal structure of fianelite, $\text{Mn}_2\text{V}(\text{V,As})\text{O}_7 \cdot 2\text{H}_2\text{O}$, a new mineral from Fianel, Val Ferrera, Graubünden, Switzerland

Joël Brugger and Peter Berlepsch

For deposit:

81 September-October 1996

1270-1276

AM-96-626
Brugger + Berlepsch
no. no 7163
Table 5
S/O 96

Structure factors for FIANELITE

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#LIST 6
READ NCOEFFICIENT = 11, TYPE = FIXED, UNIT = DATAFILE, CHECK=NO
INPUT H K L /FO/ SIGMA(/FO/) /FC/ PHASE RATIO /FOT/ ELEMENTS WEIGHT
FORMAT (3F4.0,F10.2,F8.2,F10.2,F8.4,F 6.2,F10.2,F3.0,G12.5)
END

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2	0	0	30.85	3.11	19.25	-2.9215	5.00	0.00	0	0.14164
4	0	0	239.05	2.39	190.27	0.1355	50.10	0.00	0	0.26205
6	0	0	96.77	3.07	78.05	-2.9281	15.70	0.00	0	0.20379
1	1	0	70.56	1.00	52.57	-3.0852	35.20	0.00	0	0.24053
2	1	0	118.32	1.74	92.41	0.0801	34.10	0.00	0	0.20497
4	1	0	153.42	2.57	122.18	0.1334	29.80	0.00	0	0.28382
6	1	0	87.34	3.23	69.28	0.1503	13.50	0.00	0	0.21075
8	1	0	40.01	5.40	35.95	0.3675	3.70	0.00	0	0.29744
0	2	0	136.31	1.80	112.39	-3.0551	37.90	0.00	0	0.24354
2	2	0	252.82	2.22	198.11	-3.0447	57.00	0.00	0	0.19782
3	2	0	96.14	1.69	78.72	-3.0474	28.50	0.00	0	0.20390
5	2	0	38.10	5.19	37.16	-3.0969	3.70	0.00	0	0.28139
8	2	0	46.89	4.44	40.55	0.2414	5.30	0.00	0	0.28641
1	3	0	122.41	1.65	93.93	0.0649	37.10	0.00	0	0.19458
4	3	0	63.66	2.35	49.08	-3.0072	13.50	0.00	0	0.26177
6	3	0	96.95	2.79	75.69	-2.9450	17.40	0.00	0	0.20027
7	3	0	37.48	6.22	26.46	-2.9285	3.00	0.00	0	0.23296
0	4	0	67.75	2.07	54.02	-3.0670	16.40	0.00	0	0.24675
1	4	0	80.98	1.65	57.50	-3.0848	24.60	0.00	0	0.20215
2	4	0	48.42	2.35	44.35	0.5146	10.30	0.00	0	0.26670
3	4	0	112.53	1.73	84.32	0.1143	32.50	0.00	0	0.17736
4	4	0	41.01	4.16	31.27	-2.9119	4.90	0.00	0	0.30071
6	4	0	63.80	3.59	48.12	0.2555	8.90	0.00	0	0.25993
7	4	0	55.38	4.08	46.27	0.1806	6.80	0.00	0	0.27715
1	5	0	70.22	1.86	56.77	-3.0725	18.90	0.00	0	0.24035
2	5	0	25.82	4.20	14.82	0.2358	3.10	0.00	0	0.74346E-01
3	5	0	69.02	2.35	47.71	-3.0551	14.70	0.00	0	0.22897
6	5	0	43.83	4.62	28.27	0.2535	4.70	0.00	0	0.20324
0	6	0	60.20	2.14	51.76	-2.8094	14.10	0.00	0	0.25331
1	6	0	45.42	2.73	42.07	-2.8517	8.30	0.00	0	0.26380
2	6	0	131.35	2.24	107.80	0.0647	29.30	0.00	0	0.23046
3	6	0	53.85	3.14	39.80	0.2161	8.60	0.00	0	0.28904
4	6	0	66.11	3.64	48.51	-2.8349	9.10	0.00	0	0.23843
5	6	0	75.63	3.22	61.58	-2.9461	11.70	0.00	0	0.22021
6	6	0	39.59	5.99	30.61	0.2479	3.30	0.00	0	0.30191
1	7	0	31.35	3.85	21.39	-0.0212	4.10	0.00	0	0.18290
0	8	0	61.41	2.38	48.18	0.1741	12.90	0.00	0	0.26960
4	8	0	50.38	5.01	38.25	0.1774	5.00	0.00	0	0.29848
1	9	0	47.77	3.16	37.87	0.1116	7.60	0.00	0	0.31031
3	9	0	58.19	3.82	43.57	0.1256	7.60	0.00	0	0.27918
1	10	0	158.25	2.67	127.46	0.1411	29.70	0.00	0	0.32678
2	10	0	106.22	2.33	87.96	-2.9833	22.80	0.00	0	0.20130
3	10	0	68.90	3.36	54.32	-2.9527	10.20	0.00	0	0.24454
5	10	0	98.01	2.63	83.22	0.2348	18.70	0.00	0	0.19682
6	10	0	35.55	5.17	26.26	-2.8558	3.40	0.00	0	0.21914
1	11	0	84.58	2.80	65.37	-3.0363	15.10	0.00	0	0.21407
2	11	0	42.08	4.84	33.48	-2.9767	4.30	0.00	0	0.31111
0	12	0	92.70	2.70	69.79	0.1570	17.20	0.00	0	0.20373
1	12	0	36.88	5.80	25.61	0.2689	3.20	0.00	0	0.22532
2	12	0	50.01	4.14	37.43	0.2576	6.00	0.00	0	0.30525
3	12	0	71.94	3.02	62.16	-2.9270	11.90	0.00	0	0.21058
4	12	0	46.80	4.29	41.07	0.1339	5.50	0.00	0	0.26864
1	13	0	42.45	4.97	36.40	0.1697	4.30	0.00	0	0.29721
2	13	0	46.68	4.18	41.38	0.1516	5.60	0.00	0	0.27819
4	13	0	41.59	4.00	33.88	0.2989	5.20	0.00	0	0.31049
0	14	0	62.17	3.80	49.78	-2.8495	8.20	0.00	0	0.26436
1	14	0	40.70	4.94	33.44	-2.8567	4.10	0.00	0	0.30835
2	14	0	62.10	3.33	46.83	-2.9302	9.30	0.00	0	0.26722
3	14	0	65.96	2.74	51.69	0.2380	12.00	0.00	0	0.24700

4	14	0	30.10	4.96	23.88	-2.8716	3.00	0.00	0	0.22788
2	15	0	50.07	3.36	26.15	-2.9277	7.40	0.00	0	0.11719
4	15	0	64.30	2.09	54.95	-2.9183	15.40	0.00	0	0.23322
0	16	0	78.46	2.36	61.12	0.2671	16.60	0.00	0	0.22390
1	16	0	73.18	2.63	58.86	-2.9111	13.90	0.00	0	0.23231
2	16	0	34.28	4.35	26.17	0.2149	3.90	0.00	0	0.24382
3	16	0	64.45	2.05	58.88	0.2391	15.70	0.00	0	0.19280
4	16	0	32.39	3.16	27.95	0.3223	5.10	0.00	0	0.25956
1	17	0	28.00	4.33	20.09	-3.0168	3.20	0.00	0	0.17564
2	17	0	30.43	3.50	26.97	0.1866	4.40	0.00	0	0.25931
0	18	0	44.29	2.64	36.66	-2.9693	8.40	0.00	0	0.30633
1	0	1	67.67	1.25	53.08	-0.0513	27.10	0.00	0	0.24977
3	0	1	34.99	3.01	25.32	-2.9447	5.80	0.00	0	0.22663
-8	1	1	48.36	4.08	43.49	0.2764	5.90	0.00	0	0.26349
-6	1	1	74.76	3.34	62.49	-2.9845	11.20	0.00	0	0.21353
-4	1	1	89.51	1.64	73.79	0.1520	27.30	0.00	0	0.20659
-3	1	1	138.33	2.04	117.86	0.0842	33.90	0.00	0	0.23136
-2	1	1	135.87	1.97	124.65	-3.0378	34.50	0.00	0	0.71398E-01
0	1	1	64.86	1.30	52.57	0.1416	24.90	0.00	0	0.25218
1	1	1	102.72	1.78	85.39	0.1134	28.90	0.00	0	0.20145
2	1	1	119.42	1.83	97.59	-3.0228	32.60	0.00	0	0.21267
3	1	1	36.78	2.55	29.63	0.0353	7.20	0.00	0	0.27485
5	1	1	51.97	4.09	39.37	0.0848	6.30	0.00	0	0.29017
-8	2	1	62.89	3.18	34.02	0.1808	9.90	0.00	0	0.65594E-01
-4	2	1	102.18	1.81	86.82	0.1580	28.20	0.00	0	0.19693
-2	2	1	42.79	2.76	41.50	-2.9758	7.80	0.00	0	0.21753
-1	2	1	42.60	2.69	37.07	-3.1153	7.90	0.00	0	0.28967
0	2	1	181.33	2.38	146.76	0.0975	38.20	0.00	0	0.73821
1	2	1	62.97	1.53	49.18	0.1733	20.60	0.00	0	0.26390
2	2	1	164.49	2.43	132.55	-3.0227	33.80	0.00	0	0.37312
4	2	1	28.20	4.50	27.57	0.3816	3.10	0.00	0	0.24448
6	2	1	115.75	2.65	91.17	-2.9379	21.80	0.00	0	0.20370
-8	3	1	39.00	4.60	28.92	-2.8345	4.20	0.00	0	0.26138
-2	3	1	117.31	1.86	96.14	0.0976	31.50	0.00	0	0.21042
-1	3	1	85.91	1.65	68.67	-2.9703	26.10	0.00	0	0.21126
0	3	1	93.85	1.52	72.66	0.0263	30.90	0.00	0	0.20454
2	3	1	106.49	1.50	85.68	0.1196	35.50	0.00	0	0.20312
3	3	1	23.66	3.96	19.10	-2.9384	3.00	0.00	0	0.14043
8	3	1	38.62	5.93	32.18	-3.0104	3.30	0.00	0	0.30440
-6	4	1	87.56	2.86	71.46	-2.9861	15.30	0.00	0	0.20650
-5	4	1	40.34	5.14	28.25	0.1386	3.90	0.00	0	0.24543
-2	4	1	102.07	1.51	84.72	-2.9878	33.90	0.00	0	0.20211
0	4	1	56.90	2.35	45.75	0.1348	12.10	0.00	0	0.27935
1	4	1	77.58	1.64	57.49	-3.0313	23.70	0.00	0	0.22031
2	4	1	43.92	2.27	30.85	-2.9347	9.70	0.00	0	0.26068
3	4	1	154.83	2.40	122.97	-3.0117	32.30	0.00	0	0.28387
4	4	1	150.96	2.17	115.44	0.1211	34.70	0.00	0	0.21450
7	4	1	63.81	3.76	51.35	-2.9536	8.50	0.00	0	0.25527
8	4	1	67.31	3.51	52.92	0.2245	9.60	0.00	0	0.25087
-6	5	1	79.49	3.44	69.47	0.2075	11.60	0.00	0	0.19723
-5	5	1	74.37	3.20	57.21	0.3174	11.60	0.00	0	0.23030
-4	5	1	58.27	4.06	43.45	-2.8614	7.20	0.00	0	0.27692
-3	5	1	42.14	3.83	33.11	0.1820	5.50	0.00	0	0.30779
-2	5	1	31.04	3.88	20.45	2.7619	4.00	0.00	0	0.17577
-1	5	1	59.42	2.03	49.21	0.3551	14.70	0.00	0	0.26441
0	5	1	177.25	2.26	147.33	-3.0271	39.10	0.00	0	0.00000E+00
4	5	1	116.40	2.22	86.25	-3.0115	26.20	0.00	0	0.18641
5	5	1	83.05	2.93	63.73	-2.9677	14.20	0.00	0	0.21457
-7	6	1	74.15	3.30	64.19	-2.9194	11.20	0.00	0	0.20554
-4	6	1	45.45	5.08	27.32	0.0867	4.50	0.00	0	0.19329

4	6	1	113.43	2.50	87.48	-3.0312	22.70	0.00	0	0.20212											
7	6	1	42.45	5.52	35.20	0.1951	3.80	0.00	0	0.30881											
-7	7	1	64.93	3.10	53.20	-2.8771	10.50	0.00	0	0.25426											
-5	7	1	60.07	4.09	47.51	-3.0044	7.30	0.00	0	0.27198											
-4	7	1	48.77	4.98	31.62	-3.1138	4.90	0.00	0	0.23014											
-3	7	1	173.08	2.64	136.63	-2.9760	32.70	0.00	0	0.38796											
-1	7	1	45.80	2.81	37.27	-3.0104	8.20	0.00	0	0.31268											
1	7	1	74.48	2.11	60.03	-2.9572	17.70	0.00	0	0.22969											
2	7	1	37.96	3.77	28.94	0.0939	5.00	0.00	0	0.27659											
3	7	1	95.46	2.60	74.48	0.1203	18.30	0.00	0	0.20289											
5	7	1	52.88	4.31	44.12	0.1214	6.10	0.00	0	0.28823											
6	7	1	37.41	6.04	21.68	0.0875	3.10	0.00	0	0.16127											
7	7	1	73.95	3.05	61.31	0.2174	12.10	0.00	0	0.22769											
-5	8	1	73.76	3.49	60.14	0.1823	10.60	0.00	0	0.22301											
-3	8	1	94.39	2.61	77.68	-2.9995	18.10	0.00	0	0.19994											
-2	8	1	70.16	2.31	54.68	0.1327	15.20	0.00	0	0.23533											
-1	8	1	46.06	3.06	36.13	-3.1133	7.50	0.00	0	0.31191											
0	8	1	120.03	1.76	93.64	-3.0482	34.00	0.00	0	0.20734											
1	8	1	234.35	2.63	195.33	-3.0094	44.50	0.00	0	0.20611											
2	8	1	67.98	2.81	52.40	0.1466	12.10	0.00	0	0.24808											
4	8	1	77.78	3.68	58.36	-2.9709	10.60	0.00	0	0.22445											
5	8	1	101.30	2.67	79.74	-2.8824	18.90	0.00	0	0.20098											
7	8	1	51.62	3.41	40.51	0.2143	7.60	0.00	0	0.30050											
-7	9	1	92.01	2.44	66.44	0.1997	18.90	0.00	0	0.19709											
-6	9	1	46.93	3.88	39.61	-2.9185	6.10	0.00	0	0.30751											
-5	9	1	53.87	4.30	39.52	0.1413	6.30	0.00	0	0.28041											
-4	9	1	61.72	3.77	51.88	0.1581	8.20	0.00	0	0.25301											
-3	9	1	179.96	2.83	143.45	0.1396	31.80	0.00	0	0.56976											
-1	9	1	37.26	4.97	40.44	0.1238	3.70	0.00	0	0.18018											
0	9	1	111.08	2.01	89.53	0.1117	27.60	0.00	0	0.20467											
1	9	1	89.05	2.39	76.48	0.1305	18.70	0.00	0	0.19534											
2	9	1	43.53	4.35	10.62	-0.3575	5.00	0.00	0	0.65773E-01											
3	9	1	97.77	2.69	74.88	-3.0441	18.20	0.00	0	0.20281											
7	9	1	57.18	3.55	39.39	-2.8433	8.00	0.00	0	0.25425											
-4	10	1	55.45	3.84	42.39	-2.9784	7.20	0.00	0	0.29002											
-1	10	1	102.62	2.28	80.45	0.1132	22.60	0.00	0	0.20235											
0	10	1	36.38	5.32	26.01	-3.0662	3.40	0.00	0	0.25226											
1	10	1	45.25	4.49	38.08	0.2325	5.00	0.00	0	0.30496											
2	10	1	95.55	2.62	77.96	0.0468	18.30	0.00	0	0.20322											
3	10	1	76.97	3.19	62.46	0.2160	12.10	0.00	0	0.22556											
6	10	1	52.28	3.66	41.79	0.0964	7.10	0.00	0	0.29645											
-5	11	1	109.73	2.33	83.42	-2.9141	23.60	0.00	0	0.19573											
-1	11	1	125.23	2.11	96.06	-2.9435	29.70	0.00	0	0.20242											
0	11	1	80.67	2.94	61.78	-3.0896	13.70	0.00	0	0.21997											
2	11	1	61.00	3.67	47.85	-3.0347	8.30	0.00	0	0.26978											
3	11	1	49.84	4.31	39.68	-2.9246	5.80	0.00	0	0.30636											
5	11	1	44.60	4.17	36.39	0.2817	5.40	0.00	0	0.31150											
-3	12	1	45.26	4.23	37.39	0.2238	5.30	0.00	0	0.30555											
-2	12	1	37.27	5.01	25.15	0.0662	3.70	0.00	0	0.23783											
-1	12	1	62.68	3.35	47.80	-2.8698	9.40	0.00	0	0.26542											
1	12	1	58.31	3.89	45.55	0.1185	7.50	0.00	0	0.27606											
3	12	1	84.02	2.55	65.08	-2.8557	16.40	0.00	0	0.21406											
6	12	1	38.28	4.21	31.50	-2.9355	4.50	0.00	0	0.30354											
-5	14	1	31.32	4.35	25.69	-2.8489	3.60	0.00	0	0.25492											
-1	14	1	56.63	3.62	41.77	-2.9482	7.80	0.00	0	0.28337											
1	14	1	34.78	5.71	21.70	0.5543	3.00	0.00	0	0.15242											
5	14	1	66.67	2.41	51.18	0.2989	13.80	0.00	0	0.25148											
-1	15	1	39.00	4.41	35.05	0.1906	4.40	0.00	0	0.29588											
1	15	1	65.62	3.07	50.72	-2.8707	10.70	0.00	0	0.25483											
2	15	1	34.00	4.62	26.42	0.0746	3.70	0.00	0	0.25067											
3	15	1	42.91	3.57	16.05	0.2949	6.00	0.00	0	0.96316E-01											
-2	16	1	36.77	3.46	24.28	-2.8988	5.30	0.00	0	0.21523											
-1	16	1	31.49	4.78	20.16	0.1261	3.30	0.00	0	0.15416											
3	16	1	28.27	3.68	18.69	0.0205	3.80	0.00	0	0.15589											
-2	17	1	37.64	2.47	29.07	-2.8561	7.60	0.00	0	0.27591											
2	17	1	54.69	2.52	45.29	-2.9294	10.80	0.00	0	0.27542											

-1	18	1	52.03	2.01	47.36	0.2456	13.00	0.00	0	0.22754											
0	18	1	32.42	3.29	25.08	0.2931	4.90	0.00	0	0.22571											
1	18	1	37.04	2.83	29.31	-2.9828	6.50	0.00	0	0.29352											
-8	0	2	62.61	3.14	48.92	-2.9765	10.00	0.00	0	0.26275											
-6	0	2	124.38	2.94	102.38	-2.9834	21.10	0.00	0	0.21915											
-4	0	2	41.40	4.28	35.57	-2.9490	4.80	0.00	0	0.30187											
0	0	2	62.98	1.69	54.66	0.0936	18.60	0.00	0	0.24314											
2	0	2	175.31	2.04	142.10	0.1086	43.00	0.00	0	0.53250											
4	0	2	33.64	5.00	17.79	0.4409	3.40	0.00	0	0.99039E-01											
6	0	2	76.95	3.99	66.82	0.2429	9.60	0.00	0	0.20959											
-6	1	2	102.34	2.61	81.01	-2.9823	19.60	0.00	0	0.20283											
-2	1	2	195.20	2.83	164.76	-2.9903	34.40	0.00	0	0.00000E+00											
-1	1	2	64.07	1.82	52.48	-3.1308	17.60	0.00	0	0.24932											
0	1	2	38.99	2.75	32.21	-3.0278	7.10	0.00	0	0.30494											
1	1	2	33.03	2.81	29.74	-2.9858	5.90	0.00	0	0.26884											
2	1	2	31.86	2.79	25.99	-2.3706	5.70	0.00	0	0.24975											
3	1	2	57.55	2.11	44.48	-3.1382	13.70	0.00	0	0.27901											
4	1	2	105.36	2.17	86.28	0.0996	24.30	0.00	0	0.20327											
8	1	2	75.04	3.73	58.02	0.2484	10.00	0.00	0												

-2	7	2	105.46	1.93	75.69	0.1947	27.40	0.00	0	0.17265
-1	7	2	70.62	2.09	52.90	0.1997	16.90	0.00	0	0.23650
1	7	2	80.25	2.26	65.17	-2.9992	17.70	0.00	0	0.21481
2	7	2	154.43	2.48	125.82	0.1671	31.20	0.00	0	0.30572
3	7	2	73.90	2.97	59.54	0.1614	12.40	0.00	0	0.23175
6	7	2	88.84	2.96	70.14	0.2188	15.00	0.00	0	0.20920
-6	8	2	58.89	3.41	40.89	-2.8566	8.60	0.00	0	0.26021
-2	8	2	92.87	2.48	72.81	-2.9618	18.70	0.00	0	0.20591
-1	8	2	41.19	3.48	29.79	0.2387	5.90	0.00	0	0.27615
2	8	2	65.15	3.20	51.45	-3.0441	10.20	0.00	0	0.25667
3	8	2	51.29	4.39	42.47	0.1012	5.80	0.00	0	0.28867
-7	9	2	55.70	2.75	45.21	-2.9100	10.10	0.00	0	0.28049
-6	9	2	43.81	4.33	34.24	0.1771	5.10	0.00	0	0.31326
-4	9	2	42.41	5.39	36.73	-2.9799	3.90	0.00	0	0.29365
-3	9	2	71.00	3.42	57.66	-2.9666	10.40	0.00	0	0.23400
-2	9	2	56.96	3.55	41.96	-0.0030	8.00	0.00	0	0.27880
-1	9	2	74.03	2.65	56.64	0.2310	14.00	0.00	0	0.23303
0	9	2	40.65	4.93	30.53	-2.7674	4.10	0.00	0	0.28877
3	9	2	104.37	2.77	70.19	0.2152	18.90	0.00	0	0.16478
4	9	2	74.15	3.43	58.62	-2.9593	10.80	0.00	0	0.23060
-5	10	2	51.08	4.53	40.00	-2.9808	5.60	0.00	0	0.30066
-2	10	2	62.93	3.36	42.58	0.0825	9.40	0.00	0	0.23669
-1	10	2	51.54	3.85	43.57	-3.0391	6.70	0.00	0	0.29751
3	10	2	50.38	4.62	40.82	0.1272	5.50	0.00	0	0.30378
-1	11	2	46.51	4.32	35.29	-2.8866	5.40	0.00	0	0.31023
0	11	2	46.23	5.10	35.68	0.3883	4.50	0.00	0	0.30828
3	11	2	75.51	3.17	59.32	-2.9576	11.90	0.00	0	0.22983
-4	12	2	66.57	3.32	52.40	-2.8829	10.00	0.00	0	0.25309
-3	12	2	54.45	3.99	47.62	0.1698	6.80	0.00	0	0.25021
2	12	2	78.80	2.99	66.84	0.1748	13.20	0.00	0	0.20585
5	12	2	47.93	3.83	35.80	-2.9970	6.20	0.00	0	0.29572
-5	13	2	78.56	2.15	63.10	-2.9009	18.20	0.00	0	0.22130
-4	13	2	35.47	4.81	33.48	-2.9269	3.70	0.00	0	0.27234
-3	13	2	75.81	2.73	62.19	0.2167	13.90	0.00	0	0.22135
-2	13	2	55.88	3.57	48.32	-2.8926	7.80	0.00	0	0.26601
0	13	2	65.59	3.36	53.79	-2.9616	9.80	0.00	0	0.24561
1	13	2	109.70	2.49	88.83	0.2146	22.00	0.00	0	0.20479
2	13	2	49.88	4.18	34.72	-2.9241	6.00	0.00	0	0.26743
3	13	2	46.19	4.21	36.61	-2.8658	5.50	0.00	0	0.30490
5	13	2	90.64	1.96	70.32	0.2336	23.10	0.00	0	0.20374
-1	14	2	43.30	4.13	35.54	-3.0474	5.20	0.00	0	0.31342
0	14	2	82.62	2.93	63.99	-2.9844	14.10	0.00	0	0.21610
2	14	2	34.24	5.33	29.00	-2.9796	3.20	0.00	0	0.27482
4	14	2	71.30	2.42	57.06	-2.9129	14.70	0.00	0	0.23659
-4	15	2	61.67	1.84	50.27	0.1533	16.80	0.00	0	0.24877
-2	15	2	78.24	2.11	66.21	0.2114	18.60	0.00	0	0.21013
0	15	2	43.77	4.29	37.00	0.1927	5.10	0.00	0	0.31142
2	15	2	51.69	3.12	39.76	0.2468	8.30	0.00	0	0.30107
0	16	2	39.27	4.26	33.44	0.1724	4.60	0.00	0	0.30279
2	16	2	49.92	3.09	39.25	0.1794	8.10	0.00	0	0.30615
-2	17	2	55.98	2.06	51.13	-2.9122	13.60	0.00	0	0.21851
0	17	2	27.59	4.33	24.23	-2.8960	3.20	0.00	0	0.19745
1	17	2	65.67	2.17	58.06	-2.9049	15.10	0.00	0	0.21403
2	17	2	33.02	3.74	26.30	-2.8302	4.40	0.00	0	0.26449
-7	0	3	55.79	5.00	47.15	-2.9827	5.60	0.00	0	0.25811
-1	0	3	30.63	2.79	28.03	0.8944	5.50	0.00	0	0.26189
1	0	3	56.76	2.19	43.08	-0.0031	13.00	0.00	0	0.28015
3	0	3	133.42	1.85	109.68	0.1447	36.00	0.00	0	0.23638
-6	1	3	52.87	3.92	38.57	0.2021	6.70	0.00	0	0.28512
-5	1	3	79.11	3.06	71.73	-2.9916	12.90	0.00	0	0.18594
-4	1	3	44.88	4.73	36.83	-2.9803	4.70	0.00	0	0.30641
-2	1	3	85.33	1.50	71.87	0.1162	28.50	0.00	0	0.20526
-1	1	3	119.16	1.86	95.56	-3.1299	32.00	0.00	0	0.20841
0	1	3	88.05	1.48	73.21	-2.9831	29.70	0.00	0	0.20755
1	1	3	32.14	3.61	27.48	0.2988	4.50	0.00	0	0.23798
2	1	3	52.88	2.34	40.60	0.2014	11.30	0.00	0	0.29750

3	1	3	74.18	2.27	64.52	0.1768	16.40	0.00	0	0.21779
4	1	3	110.75	2.49	87.53	-2.9875	22.20	0.00	0	0.20236
5	1	3	77.26	3.75	60.89	0.1835	10.30	0.00	0	0.22593
6	1	3	54.63	5.74	47.00	0.2159	4.80	0.00	0	0.26706
7	1	3	72.11	4.50	61.76	0.1679	8.00	0.00	0	0.22325
-4	2	3	66.83	3.84	50.95	0.2721	8.70	0.00	0	0.25123
-3	2	3	44.39	3.39	40.61	-2.8758	6.50	0.00	0	0.29123
-2	2	3	48.45	2.42	35.86	-2.9929	10.00	0.00	0	0.29742
-1	2	3	96.75	1.76	78.20	-3.0239	27.50	0.00	0	0.20394
0	2	3	121.03	1.65	98.55	0.1329	36.60	0.00	0	0.21448
1	2	3	61.42	2.03	52.48	-2.9490	15.10	0.00	0	0.23686
2	2	3	36.25	3.30	34.49	-2.9278	5.50	0.00	0	0.28551
3	2	3	39.14	3.67	31.65	-3.0800	5.30	0.00	0	0.29976
6	2	3	51.01	5.64	35.56	-2.9093	4.50	0.00	0	0.26135
-8	3	3	41.52	3.91	31.34	-2.9320	5.30	0.00	0	0.27597
-7	3	3	61.18	2.99	51.29	0.2774	10.20	0.00	0	0.25107
-6	3	3	39.80	6.01	34.22	-3.0291	3.30	0.00	0	0.30382
-3	3	3	76.46	2.31	61.76	0.1183	16.50	0.00	0	0.22436
-1	3	3	80.50	1.70	58.95	-2.9630	23.70	0.00	0	0.20015
1	3	3	88.37	1.63	69.82	-3.0743	27.00	0.00	0	0.20968
2	3	3	58.97	2.29	46.86	0.0791	12.90	0.00	0	0.27793
3	3	3	95.61	2.14	73.89	-2.9565	22.30	0.00	0	0.20255
4	3	3	71.59	3.34	57.53	0.1381	10.70	0.00	0	0.23569
-7	4	3	56.42	3.21	47.93	0.2807	8.80	0.00	0	0.26571
-3	4	3	210.28	2.99	169.49	0.1198	35.20	0.00	0	0.83099
-2	4	3	107.55	1.61	86.75	-3.0415	33.40	0.00	0	0.20381
1	4	3	163.70	2.65	136.02	0.1033	30.90	0.00	0	0.38837
3	4	3	91.81	2.31	75.68	-3.0066	19.90	0.00	0	0.20026
7	4	3	58.08	4.63	45.92	-2.8650	6.30	0.00	0	0.27729
-4	5	3	86.36	3.23	70.22	0.1333	13.40	0.00	0	0.20826
-3	5	3	132.29	2.10	100.53	0.1023	31.60	0.00	0	0.20116
-2	5	3	90.90	1.83	77.30	-3.0337	24.80	0.00	0	0.19157
-1	5	3	52.82	2.64	42.42	0.0712	10.00	0.00	0	0.28957
0	5	3	53.40	2.78	42.01	0.1439	9.60	0.00	0	0.29633
1	5	3	162.92	2.32	130.95	0.1365	35.20	0.00	0	0.37694
2	5	3	120.99	1.71	100.57	-2.9877	35.40	0.00	0	0.21321
3	5	3	34.33	5.26	24.82	0.0871	3.30	0.00	0	0.21118
6	5	3	64.10	4.06	50.59	-2.8783	7.90	0.00	0	0.25562
7	5	3	39.65	6.22	36.28	-2.9824	3.20	0.00	0	0.29265
-7	6	3	42.70	3.74	34.46	-2.9393	5.70	0.00	0	0.31092
-6	6	3	59.37	3.71	50.61	0.1882	8.00	0.00	0	0.24512
-5	6	3	110.82	2.73	92.73	-2.9837	20.30	0.00	0	0.20245
-3	6	3	69.14	3.39	54.39	-3.0154	10.20	0.00	0	0.24405
-2	6	3	160.38	2.40	126.17	0.1086	33.50	0.00	0	0.29212
-1	6	3	81.05	2.04	63.01	-2.9826	19.90	0.00	0	0.21934
0	6	3	39.43	4.02	33.01	-2.9535	4.90	0.00	0	0.30437
1	6	3	40.63	4.21	31.72	0.1384	4.80	0.00	0	0.30333
2	6	3	46.52	4.12	43.33	0.2295	5.70	0.00	0	0.26655
4	6	3	63.08	4.27	42.84	-2.9532	7.40	0.00	0	0.22668
5	6	3	79.92	3.71	56.79	0.2048	10.80	0.00	0	0.20920
-6	7	3	56.21	4.10	43.98	-2.9425	6.90	0.00	0	0.27638
-3	7	3	108.13	2.64	80.10	-3.0313	20.50	0.00	0	0.19198
-2	7	3	51.56	3.51	37.11	-2.9439	7.30	0.00	0	0.27325
-1	7	3	91.66	1.98	76.76	-2.9958	23.10	0.00	0	0.20142
1	7	3	84.99	2.86	72.42	-2.9981	14.90	0.00	0	0.20024

3	9	3	87.20	3.12	74.88	0.2251	14.00	0.00	0	0.20142
5	9	3	42.21	5.88	31.03	-3.0124	3.60	0.00	0	0.29846
-6	10	3	53.39	2.93	45.15	-2.9458	9.10	0.00	0	0.26222
-3	10	3	46.39	4.46	35.50	-2.7428	5.20	0.00	0	0.30595
2	10	3	42.99	5.18	24.80	-2.8547	4.20	0.00	0	0.18721
3	10	3	69.24	3.51	54.65	0.1444	9.90	0.00	0	0.24378
4	10	3	67.54	4.16	59.01	0.1862	8.10	0.00	0	0.22376
-6	11	3	61.21	2.45	50.05	0.1548	12.50	0.00	0	0.25868
-5	11	3	48.11	3.52	37.16	0.1932	6.80	0.00	0	0.30474
-3	11	3	47.01	3.98	36.20	-2.9268	5.90	0.00	0	0.30370
0	11	3	74.23	3.40	54.95	-2.9720	10.90	0.00	0	0.22672
1	11	3	91.73	3.20	74.50	-2.9068	14.30	0.00	0	0.20655
2	11	3	35.64	6.01	25.32	-3.0776	3.00	0.00	0	0.24119
3	11	3	59.90	3.87	15.83	0.0953	7.70	0.00	0	0.29899E-01
4	11	3	46.06	4.70	32.73	-2.9040	4.90	0.00	0	0.25913
5	11	3	95.00	2.56	75.20	-2.9106	18.50	0.00	0	0.20469
-4	12	3	74.96	2.62	57.96	0.1737	14.30	0.00	0	0.23075
-3	12	3	59.09	3.50	52.73	0.2770	8.40	0.00	0	0.23938
0	12	3	63.31	3.90	53.94	0.1542	8.10	0.00	0	0.24608
1	12	3	77.79	3.27	63.23	0.1807	11.90	0.00	0	0.22215
-5	13	3	49.51	2.39	38.51	-2.9843	10.40	0.00	0	0.30212
-4	13	3	35.43	4.66	29.80	-2.9310	3.80	0.00	0	0.28998
-2	13	3	45.86	4.00	35.62	0.2061	5.70	0.00	0	0.30520
2	13	3	42.01	5.00	34.70	0.1807	4.20	0.00	0	0.31209
3	13	3	48.48	3.95	36.44	0.2092	6.10	0.00	0	0.29931
5	13	3	51.17	3.09	37.03	0.2701	8.30	0.00	0	0.26900
-4	14	3	27.53	4.44	22.40	-2.8569	3.10	0.00	0	0.16305
-1	14	3	87.53	2.39	72.90	-2.9359	18.30	0.00	0	0.20477
0	14	3	41.93	4.79	33.59	-2.9713	4.40	0.00	0	0.30992
2	14	3	39.29	4.70	28.84	0.2513	4.20	0.00	0	0.25533
3	14	3	50.56	3.47	37.57	-2.9047	7.30	0.00	0	0.29238
-4	15	3	36.60	3.00	29.87	-2.9835	6.10	0.00	0	0.29228
-3	15	3	64.36	2.12	53.70	0.1961	15.20	0.00	0	0.24259
-1	15	3	30.88	4.42	27.22	-2.8198	3.50	0.00	0	0.26315
3	15	3	75.74	2.11	60.87	-2.8366	17.90	0.00	0	0.22686
-1	16	3	58.50	2.18	51.73	0.2448	13.40	0.00	0	0.24393
0	16	3	38.24	3.78	29.55	-2.7944	5.10	0.00	0	0.29351
-1	17	3	26.72	3.60	25.48	-2.9883	3.70	0.00	0	0.22021
1	17	3	29.21	4.83	27.23	0.4044	3.00	0.00	0	0.25413
-4	0	4	83.72	2.71	68.61	-2.8551	15.40	0.00	0	0.21163
0	0	4	180.19	2.53	143.90	-3.0069	35.70	0.00	0	0.50899
2	0	4	93.10	2.20	74.82	0.1232	21.10	0.00	0	0.20555
4	0	4	64.71	4.51	55.13	-2.9490	7.20	0.00	0	0.23511
-5	1	4	89.08	3.02	66.78	0.1995	14.70	0.00	0	0.20530
-3	1	4	73.12	2.52	62.04	-2.9662	14.50	0.00	0	0.20784
-2	1	4	44.34	2.78	37.35	-3.0547	8.00	0.00	0	0.28369
-1	1	4	80.76	1.67	70.79	0.1488	24.10	0.00	0	0.20607
0	1	4	93.01	1.77	75.21	-3.0626	26.20	0.00	0	0.20559
1	1	4	123.12	1.88	100.70	-3.0159	32.80	0.00	0	0.21730
2	1	4	59.25	2.96	47.78	-2.9847	10.00	0.00	0	0.27666
3	1	4	39.36	5.49	27.92	0.2368	3.60	0.00	0	0.25499
4	1	4	83.57	3.65	67.32	-3.0056	11.40	0.00	0	0.21501
5	1	4	63.20	4.77	57.87	-2.9722	6.60	0.00	0	0.18837
-6	2	4	40.01	6.48	42.11	0.1904	3.10	0.00	0	0.21056
-5	2	4	52.93	4.84	39.05	0.1146	5.50	0.00	0	0.29567
-3	2	4	39.09	4.96	36.26	0.0214	3.90	0.00	0	0.27654
-2	2	4	104.90	1.81	85.89	0.1495	29.00	0.00	0	0.20253
-1	2	4	82.71	1.71	70.05	0.1404	24.20	0.00	0	0.20669
3	2	4	41.59	5.16	33.83	0.2164	4.00	0.00	0	0.31183
5	2	4	85.88	3.69	55.79	-2.9604	11.60	0.00	0	0.15530
-7	3	4	36.77	4.46	32.07	-3.1019	4.10	0.00	0	0.29185
-6	3	4	48.21	5.45	37.50	-2.9315	4.40	0.00	0	0.30789
-5	3	4	70.59	4.10	60.26	-3.0065	8.60	0.00	0	0.21861
-4	3	4	42.88	6.28	37.29	-2.9734	3.40	0.00	0	0.24843
-2	3	4	33.00	4.09	25.48	-0.0138	4.00	0.00	0	0.23609
1	3	4	82.87	2.21	63.43	0.1155	18.80	0.00	0	0.21629

2	3	4	55.69	3.44	40.19	0.2525	8.10	0.00	0	0.27797
3	3	4	84.29	3.07	69.87	0.0697	13.70	0.00	0	0.20358
6	3	4	46.33	6.21	35.10	0.3692	3.70	0.00	0	0.30379
-5	4	4	36.13	5.95	28.11	-2.9485	3.00	0.00	0	0.26477
-3	4	4	89.77	2.74	69.27	-3.0796	16.40	0.00	0	0.20764
-2	4	4	150.35	2.45	122.04	-2.9917	30.70	0.00	0	0.29011
-1	4	4	90.11	1.74	75.82	-3.0481	25.90	0.00	0	0.19857
2	4	4	86.16	2.75	73.08	-2.8819	15.70	0.00	0	0.20329
7	4	4	45.97	5.82	36.44	0.1572	3.90	0.00	0	0.31243
-7	5	4	78.97	2.32	62.81	0.2359	17.00	0.00	0	0.22223
-6	5	4	99.70	2.99	77.62	0.2040	16.70	0.00	0	0.20313
-3	5	4	107.93	2.45	91.14	0.1433	22.10	0.00	0	0.19730
-2	5	4	147.28	2.23	123.44	0.1169	33.00	0.00	0	0.26262
-1	5	4	95.47	1.79	78.81	-2.9728	26.60	0.00	0	0.20429
0	5	4	45.59	3.49	33.73	-2.9723	6.50	0.00	0	0.27153
2	5	4	42.45	5.04	33.34	0.0569	4.20	0.00	0	0.31167
3	5	4	113.21	2.69	86.30	-2.9758	21.10	0.00	0	0.18790
4	5	4	58.06	4.92	53.71	-2.8716	5.90	0.00	0	0.21680
-6	6	4	49.05	4.50	35.43	-2.9344	5.50	0.00	0	0.28777
-3	6	4	70.29	3.33	61.26	0.1632	10.60	0.00	0	0.21414
0	6	4	136.44	2.29	114.92	0.1629	29.80	0.00	0	0.23937
1	6	4	72.85	3.43	55.46	0.1878	10.60	0.00	0	0.23512
4	6	4	80.46	3.62	64.33	0.2161	11.10	0.00	0	0.21835
-4	7	4	85.89	3.14	74.55	-2.9329	13.70	0.00	0	0.19109
-3	7	4	45.29	4.87	32.60	0.1404	4.70	0.00	0	0.29702
-2	7	4	77.50	2.84	61.67	-3.0571	13.70	0.00	0	0.22395
-1	7	4	48.94	3.69	39.26	-3.0565	6.60	0.00	0	0.30493
0	7	4	66.28	3.62	51.93	-3.0111	9.20	0.00	0	0.25325
-6	8	4	34.57	4.80	25.87	0.1601	3.60	0.00	0	0.25189
0	8	4	43.35	4.34	36.76	0.0177	5.00	0.00	0	0.30368
-1	8	4	92.43	2.98	74.23	-2.9014	15.50	0.00	0	0.20594
2	8	4	88.45	3.32	73.77	-3.0446	13.30	0.00	0	0.20714
4	8	4	104.12	3.41	85.98	-2.9602	15.20	0.00	0	0.20275
-4	9	4	81.33	3.08	66.91	0.2553	13.20	0.00	0	0.21590
0	9	4	69.22	4.10	55.54	0.1866	8.40	0.00	0	0.24464
2	9	4	51.77	5.21	39.42	-2.8593	5.00	0.00	0	0.30007
3	9	4	55.43	4.76	26.46	0.1629	5.80	0.00	0	0.72767E-01
6	9	4	102.60	2.63	79.24	-2.9289	19.50	0.00	0	0.19515
-3	10	4	77.64	2.59	66.85	-2.9581	15.00	0.00	0	0.19224
-2	10	4	51.79	4.46	44.71	0.2874	5.80	0.00	0	0.29265
0	10	4	42.69	5.81	36.64	0.1485	3.70	0.00	0	0.31036
1	10	4	137.90	2.92	108.28	-3.0150	23.60	0.00	0	0.24136
2	10	4	102.61	3.08	81.34	0.1852	16.70	0.00	0	0.20174
-5	11	4	58.18	2.76	44.45	0.1831	10.50	0.00	0	0.27961
-4	11	4	33.89	4.69	23.58	0.2171	3.60	0.00	0	0.20084
-2	11	4	83.68	2.68	67.58	-2.9293	15.60	0.00	0	0.21465
-1	11	4	39.57	4.87	35.21	0.1212	4.10	0.00	0	0.28253
0	11	4	73.86	3.62	66.54	0.1685	10.20	0.00	0	0.19615
1	11	4	59.67	4.76	49.95	-3.0021	6.30	0.00	0	0.25271
4	11	4	67.71	3.55	57.52	0.2511	9.50	0.00	0	0.22167
5	11	4	59.05	3.21	47.31	-2.9670	9.20	0.00	0	0.27130
-5	12	4	32.61	3.48	24.34	0.2083	4.70	0.00	0	0.23137
-2	12	4	65.25	3.07	49.45	-2.9360	10.60	0.00	0	0.25704
-1	12	4	87.30	2.70	70.79	0.1483	16.10	0.00	0	0.20553
3	12	4	45.06	4.70	40.84	0.1929	4.80	0.00	0	

-7	0	5	79.79	2.20	73.42	-2.8779	18.10	0.00	0	0.18953
-3	0	5	63.60	3.57	44.97	-2.9326	8.90	0.00	0	0.25112
-1	0	5	104.79	2.09	87.23	0.1524	25.10	0.00	0	0.20218
1	0	5	88.05	3.27	76.06	0.1133	13.50	0.00	0	0.18890
3	0	5	162.87	2.65	144.02	0.1296	30.70	0.00	0	0.14414E-01
5	0	5	55.75	6.19	52.28	0.2175	4.50	0.00	0	0.21828
-3	1	5	173.61	-2.77	141.11	-2.9836	31.40	0.00	0	0.52625
-2	1	5	53.82	3.54	45.18	0.0989	7.60	0.00	0	0.27100
-1	1	5	59.38	2.89	47.07	-3.0446	10.30	0.00	0	0.27232
1	1	5	176.41	-2.59	138.70	-3.0142	34.00	0.00	0	0.37119
-5	2	5	61.87	4.72	49.41	0.1915	6.60	0.00	0	0.26811
-2	2	5	73.41	2.79	66.57	0.1232	13.20	0.00	0	0.17724
1	2	5	176.39	3.00	142.19	-3.0328	29.40	0.00	0	0.48528
2	2	5	110.59	2.93	90.98	0.1054	18.90	0.00	0	0.20518
5	2	5	75.90	4.52	69.82	-2.9519	8.40	0.00	0	0.19144
-5	3	5	99.22	3.31	83.65	0.2321	15.00	0.00	0	0.19355
-2	3	5	79.39	2.57	63.59	-3.0122	15.40	0.00	0	0.22058
-1	3	5	145.77	2.15	128.16	0.1753	33.90	0.00	0	0.18462
1	3	5	65.59	3.96	54.74	-2.9960	8.30	0.00	0	0.24830
3	3	5	64.07	4.66	53.41	0.2312	6.90	0.00	0	0.24893
4	3	5	57.79	5.32	53.91	0.1907	5.40	0.00	0	0.22698
5	3	5	73.50	4.32	59.96	-2.8569	8.50	0.00	0	0.23025
-6	4	5	38.47	4.81	26.35	0.2037	4.00	0.00	0	0.22300
-4	4	5	54.08	4.92	50.17	-2.9879	5.50	0.00	0	0.20021
-3	4	5	40.74	5.83	29.77	0.2260	3.50	0.00	0	0.26725
0	4	5	106.84	2.49	85.83	-3.0142	21.50	0.00	0	0.20355
1	4	5	47.15	5.42	35.20	0.2858	4.30	0.00	0	0.29147
-5	5	5	37.95	6.00	32.45	-2.8698	3.20	0.00	0	0.30223
-4	5	5	43.17	5.23	38.08	0.2265	4.10	0.00	0	0.31107
-1	5	5	33.05	5.29	28.34	-0.2052	3.10	0.00	0	0.26945
2	5	5	50.96	5.92	43.14	-2.9633	4.30	0.00	0	0.30033
-5	6	5	44.19	4.68	37.49	-2.9050	4.70	0.00	0	0.30634
-2	6	5	49.43	3.99	37.51	0.1155	6.20	0.00	0	0.30671
-1	6	5	37.84	4.94	32.89	-2.7640	3.80	0.00	0	0.30063
-4	7	5	41.93	5.32	24.63	-2.8289	3.90	0.00	0	0.18650
-2	7	5	68.66	3.17	55.24	0.1220	10.80	0.00	0	0.23765
-1	7	5	66.32	3.26	58.95	-2.9952	10.20	0.00	0	0.20682
0	7	5	50.53	5.09	38.56	-2.9194	5.00	0.00	0	0.29790
2	7	5	66.99	4.95	53.90	0.1437	6.80	0.00	0	0.25017
3	7	5	72.24	4.44	60.95	-2.9342	8.10	0.00	0	0.22054
5	7	5	43.35	6.81	31.46	0.1961	3.20	0.00	0	0.29658
6	7	5	43.58	5.45	23.66	0.3027	4.00	0.00	0	0.15734
-3	8	5	47.84	4.04	40.12	0.1872	5.90	0.00	0	0.29455
0	8	5	77.93	3.65	61.47	0.1044	10.70	0.00	0	0.22465
-4	9	5	68.62	2.86	47.52	-2.9006	12.00	0.00	0	0.22186
-2	9	5	54.72	3.91	44.82	0.2187	7.00	0.00	0	0.27143
2	9	5	86.56	3.72	69.68	0.2017	11.60	0.00	0	0.21012
-4	10	5	39.72	3.86	10.35	2.8277	5.10	0.00	0	0.54916E-01
-3	10	5	55.24	3.28	42.42	-3.0024	8.40	0.00	0	0.28962
-2	10	5	68.31	3.51	55.32	-2.9287	9.70	0.00	0	0.23601
1	10	5	52.88	5.61	42.91	-2.9550	4.70	0.00	0	0.29791
2	10	5	56.38	5.51	43.60	-2.9946	5.10	0.00	0	0.28607
-5	11	5	57.74	2.44	46.70	0.2526	11.80	0.00	0	0.27450
-2	11	5	50.26	3.67	25.20	-3.0118	6.90	0.00	0	0.12842
-1	11	5	62.39	3.44	53.45	0.2295	9.10	0.00	0	0.24030
2	11	5	70.24	4.13	53.75	-2.9588	8.50	0.00	0	0.24240
-4	12	5	38.26	3.21	31.56	0.2263	6.00	0.00	0	0.30223
-1	12	5	63.71	3.00	49.83	0.2116	10.60	0.00	0	0.25913
0	12	5	48.17	4.78	42.10	0.1641	5.00	0.00	0	0.27194
3	12	5	75.29	3.29	64.37	0.2514	11.40	0.00	0	0.21583
-4	13	5	34.49	3.30	26.21	0.3430	5.20	0.00	0	0.25556
-3	13	5	57.50	2.33	46.98	-2.9155	12.30	0.00	0	0.26857
-2	13	5	64.78	2.64	53.84	-2.9128	12.20	0.00	0	0.24111
-1	13	5	48.37	3.11	36.48	-2.8900	7.80	0.00	0	0.30832
0	13	5	84.16	2.58	67.76	0.2264	16.30	0.00	0	0.21163
1	13	5	41.63	5.98	31.88	-2.9324	3.50	0.00	0	0.31033

1	14	5	68.51	3.05	52.59	-2.8707	11.20	0.00	0	0.24715
3	14	5	34.51	4.77	23.54	-2.8725	3.60	0.00	0	0.18390
-1	15	5	45.22	2.48	38.95	0.1506	9.10	0.00	0	0.27681
1	15	5	41.75	4.36	37.29	0.2892	4.80	0.00	0	0.27642
-2	1	6	55.57	4.32	41.45	0.1903	6.40	0.00	0	0.28018
3	1	6	48.69	6.61	39.14	-2.9078	3.70	0.00	0	0.30872
-5	2	6	96.90	3.02	76.88	0.1894	16.00	0.00	0	0.20265
-1	2	6	119.22	2.37	95.31	0.1940	25.10	0.00	0	0.21031
1	2	6	47.05	6.85	38.73	-2.9128	3.40	0.00	0	0.29847
3	2	6	79.62	4.49	70.69	0.1975	8.90	0.00	0	0.20575
-3	3	6	44.76	5.38	31.27	-2.9396	4.20	0.00	0	0.26210
3	3	6	59.85	5.19	41.38	0.2132	5.80	0.00	0	0.24862
-5	4	6	41.94	5.32	28.30	0.2699	3.90	0.00	0	0.21975
-3	4	6	94.12	2.84	69.10	-2.9587	16.60	0.00	0	0.19822
1	4	6	106.80	3.64	90.46	-2.9848	14.70	0.00	0	0.19725
-5	5	6	35.16	5.81	28.33	0.2435	3.00	0.00	0	0.28400
-2	5	6	51.20	4.43	40.71	0.2110	5.80	0.00	0	0.29156
-1	5	6	37.68	5.40	29.37	0.2246	3.50	0.00	0	0.28517
0	5	6	94.58	3.36	81.79	0.1986	14.10	0.00	0	0.19740
1	5	6	74.83	4.60	60.61	-2.9904	8.10	0.00	0	0.22321
5	5	6	60.96	5.17	56.32	-2.9089	5.90	0.00	0	0.21423
-4	6	6	91.73	2.71	69.11	-2.9374	17.00	0.00	0	0.19799
1	6	6	65.77	5.27	57.03	0.1564	6.20	0.00	0	0.23731
2	6	6	97.48	4.17	82.72	0.1628	11.70	0.00	0	0.20312
4	6	6	53.24	5.83	41.33	0.1833	4.60	0.00	0	0.29712
-2	7	6	109.00	2.21	93.72	-2.9575	24.70	0.00	0	0.19461
0	7	6	67.88	4.29	57.01	-2.9716	7.90	0.00	0	0.23648
2	7	6	117.05	3.87	95.44	-2.9618	15.10	0.00	0	0.20873
-5	8	6	41.20	3.54	27.91	-2.8120	5.80	0.00	0	0.23309
-3	8	6	44.62	4.21	36.66	0.2326	5.30	0.00	0	0.31364
-2	8	6	100.24	2.54	87.40	0.1954	19.80	0.00	0	0.18185
0	8	6	80.18	3.58	66.32	-2.9448	11.20	0.00	0	0.21547
1	8	6	55.02	6.68	40.20	0.2134	4.10	0.00	0	0.28591
3	8	6	57.51	5.57	45.81	-2.9745	5.20	0.00	0	0.28301
4	8	6	111.88	3.14	95.94	-2.9238	17.80	0.00	0	0.20515
5	8	6	41.82	6.00	35.42	0.1817	3.50	0.00	0	0.31218
-4	9	6	39.41	4.33	31.30	0.1853	4.50	0.00	0	0.30355
-2	9	6	86.18	2.47	70.32	0.1964	17.40	0.00	0	0.20627
0	9	6	65.36	4.51	53.50	0.1907	7.20	0.00	0	0.24342
1	9	6	58.89	5.29	38.94	0.1588	5.60	0.00	0	0.24142
2	9	6	82.60	4.20	63.27	0.2115	9.80	0.00	0	0.21474
-4	10	6	58.90	2.54	46.44	-2.9206	11.60	0.00	0	0.27459
-1	10	6	66.52	3.08	28.68	-3.0093	10.80	0.00	0	0.00000E+00
-4	11	6	36.51	3.03	28.02	-2.8300	6.00	0.00	0	0.28498
0	11	6	58.03	3.98	45.83	-2.8199	7.30	0.00	0	0.28107
3	11	6	45.35	5.23	35.45	-3.0482	4.30	0.00	0	0.30980
-2	12	6	34.72	3.78	33.44	-2.8433	4.60	0.00	0	0.23933
-1	12	6	32.16	5.05	28.35	0.1884	3.20	0.00	0	0.27133
2	12	6	45.85	5.13	37.46	-2.7752	4.50	0.00	0	0.30127
0	14	6	45.85	3.47	40.17	0.2695	6.60	0.00	0	0.25922
-5	0	7	158.39	2.30	126.93	-2.9393	34.40	0.00	0	0.34111
-1	0	7	133.02	2.58	103.04	-2.8989	25.70	0.00	0	0.21940
1	0	7	82.78	5.29	63.56	0.2122	7.80	0.00	0	0.21664
5	0	7	101.48	3.51	110.93	0.2225	14.40	0.00	0	0.00000E+00
-5	1	7	43.50	5.53	34.41	0.2100	3.90	0.00	0	0.31272
-1	1	7	39.56	5.94	31.79	-2.8964	3.30	0.00	0	0.30714
1	1	7	102.01	4.37	80.					

-5	4	7	46.38	3.51	10.21	0.1411	6.60	0.00	0	0.72644E-01
-3	4	7	75.87	3.58	56.13	-2.8240	10.60	0.00	0	0.21901
-2	4	7	61.52	4.09	45.79	-2.9809	7.50	0.00	0	0.26335
1	4	7	78.89	4.81	63.38	-2.9123	8.20	0.00	0	0.22098
2	4	7	74.70	5.45	62.23	-3.0052	6.90	0.00	0	0.21520
-5	6	7	36.44	3.07	38.88	0.3037	5.90	0.00	0	0.25150
-3	6	7	40.38	4.80	35.26	-3.0142	4.20	0.00	0	0.29169
-2	6	7	41.12	4.84	36.81	-2.9403	4.30	0.00	0	0.27500
-1	6	7	60.65	3.89	49.99	0.2781	7.80	0.00	0	0.26232
0	6	7	63.97	5.35	49.75	0.2246	6.00	0.00	0	0.26059
3	6	7	68.34	5.07	56.49	0.1963	6.70	0.00	0	0.24267
-4	7	7	29.19	4.90	23.33	-2.9716	3.00	0.00	0	0.20025
-1	8	7	33.76	5.36	25.73	-2.8754	3.20	0.00	0	0.24709
-4	9	7	37.42	3.56	31.58	-2.8732	5.30	0.00	0	0.29515
-3	10	7	32.45	3.68	28.44	0.3849	4.40	0.00	0	0.27451
0	10	7	71.86	3.65	60.15	-2.8390	9.80	0.00	0	0.21868
1	10	7	50.43	5.65	29.15	0.3081	4.50	0.00	0	0.17228
-2	12	7	32.32	3.43	28.56	0.3661	4.70	0.00	0	0.27489
-1	12	7	31.99	4.30	28.62	-2.9142	3.70	0.00	0	0.27238
-4	0	8	51.43	4.77	39.02	-3.0793	5.40	0.00	0	0.29548
-3	1	8	60.20	3.82	47.27	0.2703	7.90	0.00	0	0.27368
-1	1	8	52.29	4.78	34.70	-2.8822	5.50	0.00	0	0.20749
-3	3	8	55.53	4.41	43.00	-2.9265	6.30	0.00	0	0.28948
-4	4	8	34.13	5.27	29.46	0.2617	3.20	0.00	0	0.26270
-3	4	8	37.56	5.69	27.36	0.1303	3.30	0.00	0	0.22445
-2	4	8	56.15	3.88	40.18	0.2310	7.20	0.00	0	0.26987
-1	4	8	54.53	4.20	41.46	-2.9361	6.50	0.00	0	0.29270
3	4	8	53.66	7.11	46.00	-2.9185	3.80	0.00	0	0.26214
-2	5	8	42.71	4.36	32.91	-2.9093	4.90	0.00	0	0.31146
-1	5	8	93.09	2.56	75.50	0.1969	18.20	0.00	0	0.20581
-4	6	8	35.56	3.64	19.88	-2.8488	4.90	0.00	0	0.14999
-2	6	8	101.12	2.37	80.70	-2.9447	21.30	0.00	0	0.20185
-1	6	8	39.11	5.12	32.75	0.1222	3.80	0.00	0	0.29459
2	6	8	49.30	7.32	36.45	-2.8908	3.40	0.00	0	0.29783
-4	7	8	49.38	2.64	41.36	0.2680	9.30	0.00	0	0.29070
-3	7	8	34.02	3.61	34.69	-3.0269	4.70	0.00	0	0.22183
-2	7	8	42.67	3.91	28.27	-2.9306	5.50	0.00	0	0.27664
2	7	8	77.19	4.35	61.04	-2.8875	8.90	0.00	0	0.22439
-3	8	8	27.91	4.28	19.30	-2.9825	3.30	0.00	0	0.15159
-2	8	8	58.46	2.80	30.38	0.2435	10.50	0.00	0	0.24507E-01
0	8	8	64.91	4.13	53.25	0.3015	7.90	0.00	0	0.25366
-2	9	8	47.08	2.96	34.39	0.1847	8.00	0.00	0	0.30587
-1	9	8	35.15	3.59	28.73	-2.8932	4.90	0.00	0	0.28280
2	9	8	68.84	4.10	53.59	0.2718	8.40	0.00	0	0.24580
-3	0	9	49.67	4.48	38.16	-3.0474	5.50	0.00	0	0.30529
-1	0	9	84.95	3.31	59.71	-2.9111	12.80	0.00	0	0.19700
-3	1	9	60.23	3.58	42.79	0.3428	8.40	0.00	0	0.23902
-2	1	9	38.32	5.92	25.08	0.1231	3.20	0.00	0	0.21368
-1	1	9	54.64	4.11	27.56	-3.0041	6.60	0.00	0	0.94202E-01
-2	2	9	49.87	4.35	37.12	0.1982	5.70	0.00	0	0.29758
-1	2	9	64.27	3.88	49.12	0.1947	8.30	0.00	0	0.24881
-1	3	9	101.43	2.41	71.38	-2.9061	21.00	0.00	0	0.16512
1	3	9	58.23	7.84	52.10	0.2123	3.70	0.00	0	0.24978