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and Wilford, W.S.

**Composition, stability and structure of a new  
member of the aenigmatite group,**

**$\text{Na}_2\text{Mg}_{4+x}\text{Fe}^{3+}_{2-2x}\text{Si}_{6+x}\text{O}_{20}$ , synthesized at 13-14  
GPa**

**Table 6.** Calculated and observed values of  $F^2$  and the  
values of  $s(F_o^2)$

h,k,l, Fc-squared, Fo-squared, sigma(Fo-squared) and  
status flag

data\_97191zzz\_jbp

\_shelx\_title '97191aaa in P-1'

\_shelx\_refln\_list\_code 4

\_shelx\_F\_calc\_maximum 265.20

\_exptl\_crystal\_F\_000 700.00

\_reflns\_d\_resolution\_high 0.8401

loop\_

\_symmetry\_equiv\_pos\_as\_xyz

'x, y, z'

'-x, -y, -z'

\_cell\_length\_a 10.3280

\_cell\_length\_b 10.7240

\_cell\_length\_c 8.8050

\_cell\_angle\_alpha 105.150

\_cell\_angle\_beta 96.850

\_cell\_angle\_gamma 125.470  
\_shelx\_F\_squared\_multiplier 1.000  
loop\_  
\_refln\_index\_h  
\_refln\_index\_k  
\_refln\_index\_l  
\_refln\_F\_squared\_calc  
\_refln\_F\_squared\_meas  
\_refln\_F\_squared\_sigma  
\_refln\_observed\_status  
0 0 -1 1136.40 1051.33 26.68 o  
0 0 -2 428.42 420.39 14.47 o  
0 0 -3 1667.11 1655.74 54.60 o  
0 0 -4 223.77 244.22 16.82 o  
0 0 -5 218.79 193.75 13.79 o  
0 0 -6 213.21 200.81 24.22 o  
0 0 -7 3925.63 3618.88 120.66 o  
0 0 -8 24.10 7.74 17.15 o

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0 0 -9 974.93 919.22 46.10 o  
0 1 9 1661.47 1405.46 60.24 o  
0 1 8 535.82 489.13 33.98 o  
0 1 7 37.96 21.19 16.48 o  
0 1 6 319.90 303.75 20.52 o  
0 1 5 42.60 41.37 9.42 o  
0 1 4 1040.80 996.36 27.94 o  
0 1 3 7.40 4.37 7.06 o

0 1 2 14428.65 14020.25 290.02 o  
 0 1 0 1193.67 1104.92 38.85 o  
 0 1 -1 206.39 259.48 11.11 o  
 0 1 -2 542.10 549.13 17.17 o  
 0 1 -3 14095.00 13766.47 284.75 o  
 0 1 -4 1559.22 1737.79 42.44 o  
 0 1 -5 5428.02 5406.87 117.21 o  
 0 1 -6 508.79 479.42 24.90 o  
 0 1 -7 563.36 523.48 20.19 o  
 0 1 -8 15401.43 12481.12 378.96 o  
 0 1 -9 2019.01 2094.18 79.78 o  
 0 2 8 1206.70 1188.51 53.84 o  
 0 2 7 478.66 454.14 30.61 o  
 0 2 6 153.27 138.24 19.51 o  
 0 2 5 1113.18 1044.32 29.95 o  
 0 2 4 7.43 2.69 8.07 o  
 0 2 3 4263.35 4399.06 96.55 o  
 0 2 2 386.85 94.88 9.42 o  
 0 2 1 14401.31 14291.76 295.50 o  
 0 2 0 425.40 420.39 20.87 o 0 6 -1 499.54 516.76 27.92 o  
 0 2 -1 537.18 568.99 24.91 o 0 6 -2 1044.99 1231.14 48.80 o  
 0 2 -2 9091.96 9155.91 162.20 o 0 6 -3 10239.98 9983.34 293.64 o  
 0 2 -3 255.12 241.89 11.78 o 0 6 -4 1672.44 1824.54 65.66 o

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0 2 -4 3777.17 3652.23 105.33 o 0 6 -5 794.07 815.64 26.25 o  
 0 2 -5 42.12 62.22 9.42 o 0 6 -6 2065.00 2031.81 78.46 o

0 2 -6 1052.63 1126.47 31.64 o 0 6 -7 207.02 206.19 15.47 o  
0 2 -7 201.75 192.73 13.45 o 0 6 -8 397.75 404.00 19.51 o  
0 2 -8 751.65 756.01 38.69 o 0 6 -9 227.60 226.03 16.48 o  
0 2 -9 262.52 281.53 26.24 o 0 6 -10 1469.42 1423.19 60.91 o  
0 2 -10 211.30 203.83 26.57 o 0 7 4 116.86 163.12 33.63 o  
0 3 6 154.12 167.84 21.86 o 0 7 3 5.20 15.47 12.78 o  
0 3 5 229.48 236.46 14.46 o 0 7 2 475.82 518.05 29.60 o  
0 3 4 3118.38 3064.29 71.11 o 0 7 1 35.62 32.29 14.13 o  
0 3 3 14036.84 14599.39 303.47 o 0 7 0 3902.08 4145.96 132.12 o  
0 3 2 4278.26 5343.69 227.87 o 0 7 -1 563.19 535.26 29.27 o  
0 3 1 7.74 7.40 7.06 o 0 7 -2 196.08 177.60 18.84 o  
0 3 0 1668.69 1644.95 56.28 o 0 7 -3 1000.51 1134.75 47.45 o  
0 3 -1 14179.06 12933.63 372.84 o 0 7 -4 35.76 32.62 14.13 o  
0 3 -2 257.55 245.93 17.16 o 0 7 -5 42.79 54.82 16.48 o  
0 3 -3 2130.33 1605.09 39.78 o 0 7 -6 204.09 220.31 22.20 o  
0 3 -4 1820.37 1979.31 55.59 o 0 7 -7 2025.73 2127.40 66.66 o  
0 3 -5 416.50 419.53 13.12 o 0 7 -8 133.78 139.58 27.58 o  
0 3 -6 10259.58 9483.28 200.50 o 0 7 -9 526.33 463.22 22.20 o  
0 3 -7 973.24 1113.19 98.94 o 0 8 2 1205.33 1359.45 74.37 o  
0 3 -8 1815.46 1810.47 46.79 o 0 8 1 546.76 596.78 25.23 o  
0 3 -9 478.00 458.17 30.28 o 0 8 0 25.66 24.89 14.80 o  
0 4 7 115.83 109.98 29.26 o 0 8 -1 15429.79 15662.36 456.24 o  
0 4 6 62.51 58.18 22.87 o 0 8 -2 729.51 827.66 39.70 o  
0 4 4 13523.01 12221.05 256.90 o 0 8 -3 1798.70 1811.80 67.66 o  
0 4 3 3122.42 3287.73 75.82 o 0 8 -4 273.23 290.96 24.55 o  
0 4 2 7.36 7.40 8.07 o 0 8 -5 439.04 464.22 28.93 o  
0 4 1 1064.30 1112.85 30.97 o 0 8 -6 407.98 433.60 28.93 o  
0 4 0 219.29 262.38 18.50 o 0 8 -7 126.74 122.76 20.18 o  
0 4 -1 1564.43 1822.68 62.32 o 0 8 -8 4132.63 3890.48 91.31 o

0 4 -2 3769.11 3668.05 114.45 o 0 8 -9 252.20 265.05 19.84 o

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0 4 -3 1811.30 2088.45 50.20 o 0 9 1 1653.58 1582.49 46.11 o

0 4 -4 10.17 8.07 8.07 o 0 9 0 963.36 977.42 33.31 o

0 4 -5 16902.14 15912.54 330.05 o 0 9 -1 2033.27 2227.50 81.13 o

0 4 -6 1654.45 1744.73 44.44 o 0 9 -2 267.93 275.82 24.55 o

0 4 -7 36.87 37.67 10.09 o 0 9 -3 493.34 476.68 30.95 o

0 4 -8 281.75 262.03 15.81 o 0 9 -4 1906.20 2124.78 78.10 o

0 4 -9 1900.12 1900.25 72.37 o 0 9 -5 100.47 133.86 21.53 o

0 4 -10 13.08 26.91 18.83 o 0 9 -6 227.27 209.88 24.89 o

0 5 6 1494.76 1405.38 61.59 o 0 9 -7 542.40 508.30 32.63 o

0 5 5 4478.16 4935.79 163.12 o 0 9 -8 253.36 265.72 26.57 o

0 5 4 296.88 277.50 16.82 o 0 10 -2 211.44 276.82 26.57 o

0 5 3 226.81 233.43 15.47 o 0 10 -3 403.64 414.75 29.94 o

0 5 2 1104.74 1148.65 32.98 o 0 10 -4 13.94 7.74 16.14 o

0 5 1 44.91 49.78 9.75 o 0 10 -5 130.48 131.84 20.85 o

0 5 0 213.83 177.60 16.82 o 0 10 -6 1492.31 1890.66 74.71 o

0 5 -1 5461.46 5311.40 161.80 o 1 -10 7 77.33 69.96 20.18 o

0 5 -2 44.39 62.22 14.80 o 1 -10 6 421.86 424.85 30.27 o

0 5 -3 430.63 476.73 25.91 o 1 -10 5 4.31 39.01 19.17 o

0 5 -4 16953.20 17689.41 762.31 o 1 -10 4 103.69 111.33 20.85 o

0 5 -5 51744.23 53040.33 877.21 o 1 -10 3 0.48 -4.37 14.13 o

0 5 -6 792.65 768.87 28.94 o 1 -10 2 393.20 435.61 30.27 o

0 5 -7 45.39 45.74 10.76 o 1 -10 1 164.11 137.23 21.19 o

0 5 -8 433.91 369.02 17.83 o 1 -10 0 6.76 -3.70 12.44 o

0 5 -9 96.28 101.24 13.45 o 1 -9 8 25.43 33.30 18.50 o

0 5 -10 130.43 139.58 22.87 o 1 -9 7 173.52 170.86 22.54 o  
 0 6 5 1498.56 1648.03 69.66 o 1 -9 6 33.54 14.46 14.80 o  
 0 6 4 66.37 72.98 26.91 o 1 -9 5 470.40 535.54 33.30 o  
 0 6 3 158.15 170.19 14.80 o 1 -9 4 7.44 11.77 16.48 o  
 0 6 2 155.96 177.25 14.13 o 1 -9 3 363.00 411.39 28.93 o  
 0 6 1 321.77 303.08 16.82 o 1 -9 2 304.42 329.31 26.24 o  
 0 6 0 214.06 240.50 19.85 o 1 -9 1 821.18 853.25 40.71 o  
 1 -9 0 112.12 111.66 18.50 o 1 -4 3 142.54 146.32

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10.76 o

1 -9 -1 69.60 62.22 13.45 o 1 -4 2 96.79 105.95 14.13 o  
 1 -9 -2 93.83 93.84 15.47 o 1 -4 1 1.91 0.00 9.42 o  
 1 -8 9 1.71 -0.34 15.13 o 1 -4 0 1872.54 1828.21 62.01 o  
 1 -8 8 39.88 36.32 12.44 o 1 -4 -1 44.19 62.22 9.08 o  
 1 -8 7 447.69 515.35 31.62 o 1 -4 -2 441.75 489.18 18.17 o  
 1 -8 6 6.95 15.47 16.48 o 1 -4 -3 34.18 29.60 10.09 o  
 1 -8 5 56.30 62.22 17.15 o 1 -4 -4 1990.61 1836.20 46.47 o  
 1 -8 4 1155.75 1091.05 46.44 o 1 -4 -5 0.09 8.74 16.14 o  
 1 -8 3 123.73 134.87 19.84 o 1 -4 -6 18.46 7.06 18.16 o  
 1 -8 2 414.88 411.08 26.91 o 1 -4 -7 250.14 196.77 27.58 o  
 1 -8 1 162.57 178.94 20.18 o 1 -3 10 72.03 60.20 20.85 o  
 1 -8 0 886.49 864.07 39.37 o 1 -3 9 196.81 162.79 22.20 o  
 1 -8 -1 0.14 -2.35 10.09 o 1 -3 8 0.03 7.74 9.75 o  
 1 -8 -2 648.59 639.87 30.61 o 1 -3 7 173.53 170.53 13.45 o  
 1 -8 -3 68.81 62.22 26.57 o 1 -3 6 55.42 52.80 9.75 o  
 1 -7 9 1.71 14.13 20.85 o 1 -3 5 222.98 234.79 13.12 o

1 -7 8 0.58 9.75 11.10 o 1 -3 4 6.22 7.74 7.40 o  
 1 -7 7 2.01 1.01 10.09 o 1 -3 3 698.77 636.50 29.62 o  
 1 -7 6 271.12 284.57 16.82 o 1 -3 2 157.66 156.42 10.09 o  
 1 -7 4 2.27 4.04 12.78 o 1 -3 1 9.77 5.04 9.75 o  
 1 -7 3 1200.59 1134.61 46.11 o 1 -3 0 1.07 24.21 10.09 o  
 1 -7 2 233.88 254.63 21.53 o 1 -3 -1 3525.52 3376.87 75.33 o  
 1 -7 1 271.30 268.76 21.19 o 1 -3 -2 0.74 3.03 7.06 o  
 1 -7 0 41.59 41.37 13.12 o 1 -3 -3 473.89 488.86 23.89 o  
 1 -7 -1 471.32 480.05 20.18 o 1 -3 -4 67.20 75.34 9.75 o  
 1 -7 -2 19.93 24.22 10.76 o 1 -3 -5 1694.08 1746.27 45.11 o  
 1 -7 -3 259.26 263.37 17.49 o 1 -3 -7 387.17 372.71 29.60 o  
 1 -7 -4 124.67 145.97 30.27 o 1 -3 -8 7.67 14.46 20.18 o  
 1 -6 10 47.84 42.71 20.18 o 1 -2 9 170.91 137.23 21.53 o  
 1 -6 9 207.28 197.44 16.82 o 1 -2 8 24.12 24.89 10.76 o  
 1 -6 8 108.38 105.27 13.45 o 1 -2 7 53.00 51.46 10.43 o

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1 -6 7 108.46 108.30 12.44 o 1 -2 6 0.24 0.34 8.07 o  
 1 -6 6 23.50 28.25 10.43 o 1 -2 5 0.45 3.70 10.76 o  
 1 -6 5 301.55 279.87 15.14 o 1 -2 4 141.21 133.87 10.43 o  
 1 -6 4 200.71 219.98 20.18 o 1 -2 3 2.59 7.40 6.73 o  
 1 -6 3 99.83 82.07 14.80 o 1 -2 2 591.12 550.11 14.14 o  
 1 -6 2 915.64 854.17 36.68 o 1 -2 1 64.35 81.74 11.10 o  
 1 -6 1 55.10 61.55 13.79 o 1 -2 0 0.16 7.40 8.74 o  
 1 -6 0 639.20 627.85 30.28 o 1 -2 -1 0.30 2.69 6.39 o  
 1 -6 -1 21.02 18.16 9.42 o 1 -2 -2 3519.76 3461.13 76.69 o  
 1 -6 -2 631.53 629.15 22.88 o 1 -2 -3 56.64 67.60 11.10 o

1 -6 -3 0.38 5.04 16.14 o 1 -2 -4 859.81 904.31 46.78 o  
 1 -6 -4 130.52 202.48 28.59 o 1 -2 -5 16.12 21.19 8.74 o  
 1 -6 -5 14.65 53.14 22.87 o 1 -2 -6 306.51 320.23 24.89 o  
 1 -5 10 37.86 62.89 21.19 o 1 -2 -7 46.83 44.40 18.83 o  
 1 -5 9 16.64 4.37 10.76 o 1 -1 9 123.84 138.91 22.53 o  
 1 -5 8 143.30 158.42 14.13 o 1 -1 8 49.05 46.75 18.83 o  
 1 -5 7 360.34 328.99 16.82 o 1 -1 7 73.68 67.94 11.44 o  
 1 -5 6 27.99 26.23 9.42 o 1 -1 6 973.13 954.72 36.68 o  
 1 -5 5 342.79 341.78 15.81 o 1 -1 5 77.34 68.28 9.75 o  
 1 -5 4 516.16 494.26 23.55 o 1 -1 4 173.08 174.24 14.13 o  
 1 -5 3 25.19 27.92 12.11 o 1 -1 3 769.01 703.56 21.21 o  
 1 -5 2 102.09 100.90 14.46 o 1 -1 2 54.93 64.58 7.74 o  
 1 -5 1 1043.35 974.22 38.71 o 1 -1 1 156.89 165.88 10.09 o  
 1 -5 0 1.15 5.72 10.09 o 1 -1 0 6.23 3.36 7.74 o  
 1 -5 -1 810.08 844.68 25.91 o 1 -1 -1 1.15 6.39 4.71 o  
 1 -5 -2 0.97 3.03 10.43 o 1 -1 -2 0.06 2.69 6.05 o  
 1 -5 -3 2451.02 2401.56 58.27 o 1 -1 -3 2707.54 2773.27 169.70 o  
 1 -5 -4 2.52 2.69 9.08 o 1 -1 -4 6.52 6.39 9.42 o  
 1 -5 -6 5.16 11.77 19.84 o 1 -1 -5 398.44 407.06 16.15 o  
 1 -4 9 267.33 265.72 25.90 o 1 -1 -6 17.98 37.33 16.82 o  
 1 -4 8 64.64 62.56 11.77 o 1 -1 -7 523.24 574.93 32.63 o  
 1 -4 7 113.76 109.98 11.77 o 1 -1 -8 2.81 16.14

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16.82 o

1 -4 6 271.56 268.77 14.46 o 1 -1 -9 0.05 -2.02 18.83 o  
 1 -4 5 122.80 137.57 11.44 o 1 0 9 86.64 90.14 23.21 o



1 -4 4 48.10 49.44 8.74 o 1 0 8 696.32 623.40 36.00 o  
1 0 7 49.76 46.41 14.13 o 1 8 -4 0.09 -0.67 14.46 o  
1 0 6 1473.27 1412.77 38.04 o 1 8 -5 164.54 175.24 21.19 o  
1 0 5 81.64 84.76 10.43 o 1 8 -6 85.24 118.39 21.19 o  
1 0 4 388.95 391.94 15.81 o 1 8 -7 13.11 27.91 18.83 o  
1 0 3 29.26 26.57 7.40 o 1 8 -8 4.16 1.68 11.43 o  
1 0 2 921.37 928.14 38.73 o 1 9 -1 91.93 84.76 19.84 o  
1 0 1 10.06 16.48 6.39 o 1 9 -2 13.08 17.15 16.14 o  
1 0 0 162.29 200.23 10.10 o 1 9 -3 147.73 123.44 21.19 o  
1 0 -1 48.39 52.14 5.38 o 1 9 -4 494.10 544.96 34.31 o  
1 0 -2 35.87 65.25 7.40 o 1 9 -5 67.69 74.33 18.83 o  
1 0 -3 0.27 0.67 8.74 o 1 9 -6 60.17 80.38 19.17 o  
1 0 -4 1456.04 1380.55 35.03 o 1 9 -7 86.00 80.38 19.84 o  
1 0 -5 1.68 7.06 7.74 o 2 -11 6 1556.51 1805.23 72.02 o  
1 0 -6 224.30 220.99 13.12 o 2 -11 5 2520.82 3007.32 106.39 o  
1 0 -7 281.12 279.19 23.88 o 2 -11 4 887.76 1011.03 48.79 o  
1 0 -9 442.29 409.72 30.95 o 2 -11 3 533.53 550.68 34.65 o  
1 1 8 5.46 11.43 18.83 o 2 -11 2 97.73 83.75 19.51 o  
1 1 7 440.36 441.01 30.28 o 2 -10 8 435.97 468.24 33.64 o  
1 1 6 460.30 468.27 19.85 o 2 -10 7 57.46 92.49 21.19 o  
1 1 5 734.85 764.81 38.36 o 2 -10 6 7.67 10.76 16.82 o  
1 1 4 48.97 48.43 13.79 o 2 -10 5 2949.45 3273.59 111.14 o  
1 1 3 116.92 136.90 10.43 o 2 -10 4 7255.89 6677.61 205.19 o  
1 1 2 35.12 45.74 8.07 o 2 -10 3 22.45 15.81 17.15 o  
1 1 1 626.55 617.40 35.01 o 2 -10 2 17.47 24.89 15.13 o  
1 1 -1 342.47 358.11 11.11 o 2 -10 1 488.03 490.13 30.95 o  
1 1 -2 84.74 87.12 6.73 o 2 -10 0 121.90 130.50 16.82 o  
1 1 -3 9.65 9.75 6.73 o 2 -10 -1 97.57 122.76 25.22 o  
1 1 -4 85.14 79.04 9.08 o 2 -9 9 36.51 57.85 22.53 o

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1 1 -5 538.73 557.19 19.18 o 2 -9 8 945.14 938.73 32.30 o  
1 1 -6 408.48 406.39 16.82 o 2 -9 7 229.42 264.37 26.24 o  
1 1 -7 623.14 620.74 33.31 o 2 -9 6 16779.95 17429.66 506.64 o  
1 1 -8 0.85 9.08 16.14 o 2 -9 5 165.07 151.69 20.85 o  
1 1 -9 259.71 275.81 25.90 o 2 -9 4 57.29 46.41 16.48 o  
1 1 -10 5.39 4.04 17.49 o 2 -9 3 3265.79 3177.00 105.11 o  
1 2 7 167.92 175.91 25.23 o 2 -9 2 784.77 829.37 39.70 o  
1 2 6 1108.01 1222.54 35.67 o 2 -9 1 40.54 42.04 15.81 o  
1 2 5 371.75 395.93 18.17 o 2 -9 0 81.38 66.93 15.47 o  
1 2 4 267.41 288.61 15.14 o 2 -9 -1 1298.68 1399.61 41.06 o  
1 2 3 17.85 17.49 13.12 o 2 -9 -2 858.03 953.16 50.80 o  
1 2 2 471.15 498.64 17.83 o 2 -9 -3 5384.67 5529.04 183.38 o  
1 2 1 26.36 27.24 7.74 o 2 -8 9 12.12 13.12 19.17 o  
1 2 0 960.89 979.61 37.38 o 2 -8 8 290.90 305.42 18.16 o  
1 2 -1 103.61 107.30 12.45 o 2 -8 7 99.73 87.78 13.12 o  
1 2 -2 174.04 172.91 8.41 o 2 -8 6 583.49 583.36 32.97 o  
1 2 -3 96.02 98.89 7.40 o 2 -8 5 3786.58 3849.29 124.03 o  
1 2 -4 249.05 258.02 10.09 o 2 -8 4 678.08 749.61 37.01 o  
1 2 -5 20.46 13.12 8.41 o 2 -8 3 1275.17 1247.68 50.15 o  
1 2 -6 1518.66 1434.57 37.37 o 2 -8 2 234.46 419.45 26.24 o  
1 2 -7 194.81 199.80 13.79 o 2 -8 1 686.85 763.75 36.67 o  
1 2 -8 62.46 66.93 18.16 o 2 -8 0 703.98 818.25 37.68 o  
1 2 -9 294.63 264.72 24.89 o 2 -8 -1 184.80 167.84 14.46 o  
1 2 -10 610.35 586.36 36.00 o 2 -8 -2 5834.16 6135.76 250.61 o  
1 3 7 39.76 5.72 17.83 o 2 -8 -3 27.69 49.10 22.53 o

1 3 6 314.02 272.46 25.90 o 2 -8 -4 2566.99 3316.47 121.88 o  
 1 3 5 129.73 121.08 12.78 o 2 -7 9 348.72 339.40 19.51 o  
 1 3 4 1.02 -0.67 8.41 o 2 -7 8 5606.01 5408.01 120.73 o  
 1 3 3 392.18 393.26 17.16 o 2 -7 7 1337.58 1349.59 38.03 o  
 1 3 2 63.80 67.60 9.75 o 2 -7 6 2249.62 2011.76 66.68 o  
 1 3 1 74.23 65.25 12.44 o 2 -7 5 1045.37 996.14 41.73 o  
 1 3 0 47.65 41.03 11.77 o 2 -7 4 171.02 174.23

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19.51 o

1 3 -1 696.26 613.57 27.94 o 2 -7 3 213.98 253.96 20.85 o  
 1 3 -2 0.07 4.71 10.43 o 2 -7 2 100.99 116.37 16.14 o  
 1 3 -3 530.88 558.93 19.18 o 2 -7 1 436.13 541.29 29.27 o  
 1 3 -4 406.83 422.91 13.12 o 2 -7 0 377.42 387.53 23.88 o  
 1 3 -5 1.10 -1.68 6.05 o 2 -7 -1 1348.46 1264.24 35.68 o  
 1 3 -6 142.85 136.22 11.44 o 2 -7 -2 1021.47 1134.38 34.32 o  
 1 3 -7 339.18 318.89 21.53 o 2 -7 -3 1293.44 1404.39 59.57 o  
 1 3 -8 0.41 -5.04 13.12 o 2 -7 -4 3.24 6.73 23.54 o  
 1 3 -9 1067.40 1207.00 53.17 o 2 -7 -5 585.70 656.33 42.72 o  
 1 3 -10 88.09 83.41 22.20 o 2 -6 10 5381.49 5151.12 168.55 o  
 1 4 6 345.51 399.61 35.66 o 2 -6 9 1447.16 1387.23 39.71 o  
 1 4 5 0.83 1.68 10.76 o 2 -6 8 477.96 454.48 20.52 o  
 1 4 4 6.53 10.09 9.75 o 2 -6 7 113.60 113.01 12.44 o  
 1 4 3 36.65 36.32 10.09 o 2 -6 6 2423.66 2248.57 55.24 o  
 1 4 2 7.41 2.69 8.41 o 2 -6 5 1075.83 1032.91 46.78 o  
 1 4 1 50.85 45.07 9.75 o 2 -6 4 358.72 444.06 25.57 o  
 1 4 0 377.11 345.50 21.53 o 2 -6 2 3291.08 3429.78 108.92 o

1 4 -1 346.09 363.33 21.87 o 2 -6 1 161.84 183.32 17.15 o  
1 4 -2 293.95 289.64 19.51 o 2 -6 0 20064.63 21325.85 610.43 o  
1 4 -3 3.11 10.09 7.74 o 2 -6 -1 4507.11 4771.23 105.94 o  
1 4 -4 19.93 13.45 8.74 o 2 -6 -2 2347.01 2424.11 58.61 o  
1 4 -5 58.57 68.28 10.09 o 2 -6 -3 273.79 305.43 24.56 o  
1 4 -6 5.97 9.08 9.42 o 2 -6 -4 107.15 176.91 24.89 o  
1 4 -7 26.51 20.52 10.09 o 2 -6 -6 569.87 636.81 40.70 o  
1 4 -8 1211.74 1272.77 36.35 o 2 -5 10 6227.43 6186.23 198.96 o  
1 4 -9 32.98 56.17 17.83 o 2 -5 9 526.79 493.84 31.62 o  
1 4 -10 0.22 0.67 15.47 o 2 -5 8 160.61 129.83 13.12 o  
1 5 5 210.32 214.25 27.92 o 2 -5 7 413.67 366.00 17.49 o  
1 5 4 56.84 53.14 12.11 o 2 -5 6 2.68 4.04 8.41 o  
1 5 3 656.78 690.02 25.57 o 2 -5 5 1029.63 1028.55 67.65 o  
1 5 2 463.07 438.67 18.84 o 2 -5 4 5469.62 5486.69 119.25 o

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1 5 1 1039.88 1063.45 31.63 o 2 -5 3 258.45 298.72 13.46 o  
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1 5 -3 246.95 290.29 21.53 o 2 -5 -1 3105.17 3367.90 76.54 o  
1 5 -4 33.09 36.32 9.42 o 2 -5 -2 0.84 0.67 8.07 o  
1 5 -5 13.98 13.45 9.08 o 2 -5 -3 233.29 237.81 13.79 o  
1 5 -6 762.20 764.47 56.86 o 2 -5 -4 1.64 -6.39 14.80 o  
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1 5 -8 135.93 146.98 14.80 o 2 -5 -7 2579.65 2692.25 100.34 o  
1 5 -9 149.93 171.53 22.20 o 2 -4 9 435.61 385.50 19.85 o

1 5 -10 21.25 22.53 20.18 o 2 -4 8 3184.08 2941.50 109.14 o  
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 1 6 -3 58.37 47.76 14.13 o 2 -4 0 3133.43 3426.98 106.33 o  
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26.92 o

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32.98 o

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2 6 -8 239.59 260.00 25.23 o 3 -8 -4 2.01 10.09 21.86 o  
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19.84 o

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10.09 o  
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 3 4 -2 437.94 452.48 25.57 o 4 -9 8 47.99 51.79 13.12 o

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 3 4 -4 1498.72 1454.63 39.05 o 4 -9 6 1847.64 1930.93 71.37 o  
 3 4 -5 160.97 163.80 12.78 o 4 -9 5 921.67 880.24 40.04 o  
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 3 4 -7 151.24 145.30 13.79 o 4 -9 3 149.23 194.74 21.86 o  
 3 4 -8 657.11 644.26 35.66 o 4 -9 2 1455.78 1587.39 59.91 o  
 3 4 -9 105.85 91.48 19.84 o 4 -9 1 275.18 292.31 23.21 o  
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19.17 o

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5 -2 -1 13.44 15.47 6.05 o 5 3 3 64.95 55.83 16.48 o  
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 5 3 -5 200.40 185.33 11.77 o 6 -9 -5 191.96 171.54 27.92 o  
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 5 3 -7 68.00 70.29 17.83 o 6 -8 7 833.15 842.81 41.38 o  
 5 3 -8 77.32 77.69 20.52 o 6 -8 6 501.47 540.26 31.96 o  
 5 3 -9 75.43 68.95 19.51 o 6 -8 5 67.70 55.16 16.82 o  
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 5 4 1 250.80 228.39 23.21 o 6 -8 3 582.60 556.13 21.20 o



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 5 4 -4 232.94 272.11 22.87 o 6 -8 -2 5271.24 6121.49 195.30 o  
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 5 4 -6 11.23 12.78 10.09 o 6 -8 -5 2.00 9.75 20.52 o  
 5 4 -7 630.00 638.52 35.66 o 6 -8 -6 194.97 175.57 28.25 o  
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60.28 o

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14.46 o

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6 -3 -5 5383.87 5239.58 307.73 o 6 2 0 4287.90 4200.20 133.48 o

6 -3 -6 756.80 703.54 25.57 o 6 2 -1 756.08 785.96 37.01 o

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7 -11 1 155.44 155.73 25.56 o 7 -5 6 231.93 243.18 24.55 o  
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16.14 o  
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 7 -7 3 576.70 539.97 24.22 o 7 -3 -7 350.43 318.55 18.16 o  
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 7 -7 0 49.40 55.49 8.74 o 7 -2 4 30.45 1.35 13.79 o

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7 -7 -1 1117.09 1129.80 30.29 o 7 -2 3 18.43 11.77 14.13 o  
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7 -7 -6 44.66 59.87 21.19 o 7 -2 -1 13.34 11.10 9.08 o  
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7 0 2 1075.40 1173.36 49.80 o 8 -10 -1 22.12 29.60 21.86 o



7 0 0 307.43 287.26 21.86 o 8 -10 -2 262.99 340.40

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34.31 o

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7 2 2 37.07 50.11 18.50 o 8 -8 1 174.01 164.48 13.79 o

7 2 1 264.46 232.09 22.54 o 8 -8 0 1064.23 1073.50 51.15 o

7 2 0 22.25 36.66 15.81 o 8 -8 -1 89.94 121.42 19.84 o  
 7 2 -1 0.52 4.37 13.45 o 8 -8 -2 1214.38 1175.86 59.23 o  
 7 2 -2 8.35 24.21 14.80 o 8 -8 -3 2134.06 2258.14 82.15 o  
 7 2 -3 297.81 300.71 23.55 o 8 -8 -4 545.81 652.97 39.70 o  
 7 2 -4 157.99 134.87 13.79 o 8 -8 -5 204.57 209.21 26.24 o  
 7 2 -5 128.15 104.60 10.43 o 8 -8 -6 445.35 432.92 33.97 o  
 7 2 -6 79.01 93.50 17.83 o 8 -7 6 2447.16 2524.85 89.90 o  
 7 2 -7 44.55 54.15 19.17 o 8 -7 5 64.84 72.98 17.83 o

7 2 -8 9.20 -4.04 14.13 o 8 -7 4 468.48 436.65 20.18 o  
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 7 3 -2 405.56 347.48 26.24 o 8 -7 1 387.57 431.93 19.17 o  
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 7 3 -7 258.98 262.69 25.90 o 8 -7 -3 11914.33 11725.50 258.26 o  
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 7 4 -3 393.02 340.41 26.57 o 8 -7 -5 847.72 786.63 40.37 o  
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23.88 o

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19.84 o  
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