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### Question 1

s1 = [1, -1, 1, -1, 1, -1, 1, -1]';

s2 = [1, 1, 1, 1, -1, -1, -1, -1]';

s3 = [1, 1, -1, -1, 1, 1, -1, -1]';

T1 = [0, 2, 2]';

T2 = [-2, 0, 2]';

T3 = [1, 1, 1]';

disp('Input Signals:');

disp(s1);

disp(s2);

disp(s3);

s1\_normalized = s1 / norm(s1);

s2\_normalized = s2 / norm(s2);

s3\_normalized = s3 / norm(s3);

disp('Normalized Values:');

disp(s1\_normalized);

disp(s2\_normalized);

disp(s3\_normalized);

dot1 = s1\_normalized' \* s2\_normalized;

dot2 = s1\_normalized' \* s3\_normalized;

dot3 = s2\_normalized' \* s3\_normalized;

disp('Dot Products:');

disp(dot1);

disp(dot2);

disp(dot3);

disp('Since all the corresponding dot products are zeros, all the three vectors S1,S2 and S3 are orthogonal');

w1 = T1 \* s1\_normalized';

w2 = T2 \* s2\_normalized';

w3 = T3 \* s3\_normalized';

w = w1 + w2 + w3;

disp('The weighted Associative Matrix:');

disp(w);

response\_s1 = w \* s1\_normalized;

response\_s2 = w \* s2\_normalized;

response\_s3 = w \* s3\_normalized;

disp('Response Values:');

disp('Response Vector 1:');

disp(response\_s1);

disp('Response Vector 2:');

disp(response\_s2);

disp('Response Vector 3:');

disp(response\_s3);

disp('Given Target Values:');

disp('Target Vector 1:');

disp(T1);

disp('Target Vector 2:');

disp(T2);

disp('Target Vector 3:');

disp(T3);

disp('Avg Vector:');

average\_normalized = (s1\_normalized + s2\_normalized) / 2;

ans2=w\*average\_normalized;

disp(average\_normalized);

disp('Response from avarage vector of S1,S2 and the weighted matrix:');

disp(ans2);

Output:

Input Signals:

1  
 -1  
 1  
 -1  
 1  
 -1  
 1  
 -1

1  
 1  
 1  
 1  
 -1  
 -1  
 -1  
 -1

1  
 1  
 -1  
 -1  
 1  
 1  
 -1  
 -1

Normalized Values:

0.3536  
 -0.3536  
 0.3536  
 -0.3536  
 0.3536  
 -0.3536  
 0.3536  
 -0.3536

0.3536  
 0.3536  
 0.3536  
 0.3536  
 -0.3536  
 -0.3536  
 -0.3536  
 -0.3536

0.3536  
 0.3536  
 -0.3536  
 -0.3536  
 0.3536  
 0.3536  
 -0.3536  
 -0.3536

Dot Products:

0

0

0

Since all the corresponding dot products are zeros, all the three vectors S1,S2 and S3 are orthogonal

The weighted Associative Matrix:

-0.3536 -0.3536 -1.0607 -1.0607 1.0607 1.0607 0.3536 0.3536  
 1.0607 -0.3536 0.3536 -1.0607 1.0607 -0.3536 0.3536 -1.0607  
 1.7678 0.3536 1.0607 -0.3536 0.3536 -1.0607 -0.3536 -1.7678

Response Values:

Response Vector 1:

0  
 2.0000  
 2.0000

Response Vector 2:

-2.0000  
 0  
 2.0000

Response Vector 3:

1.0000  
 1.0000  
 1.0000

Given Target Values:

Target Vector 1:

0  
 2  
 2

Target Vector 2:

-2  
 0  
 2

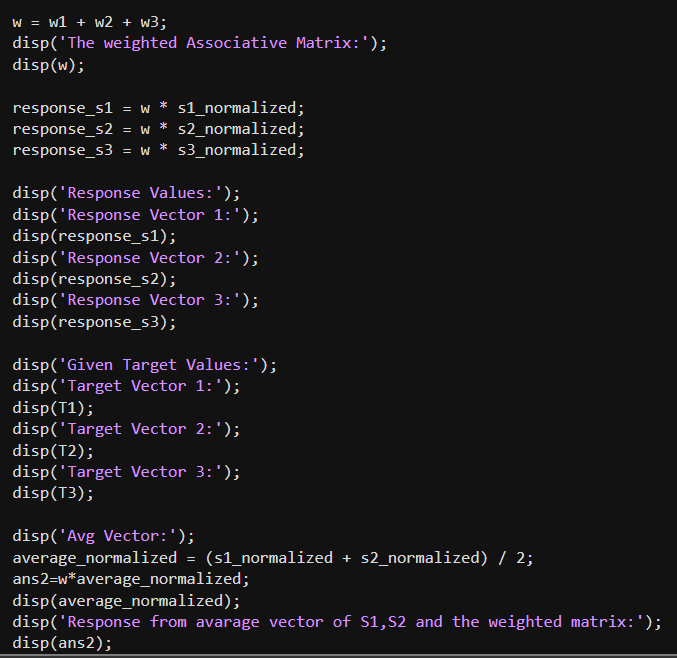
Target Vector 3:

1  
 1  
 1

Screenshots:

A computer screen with white text and purple letters

Description automatically generated



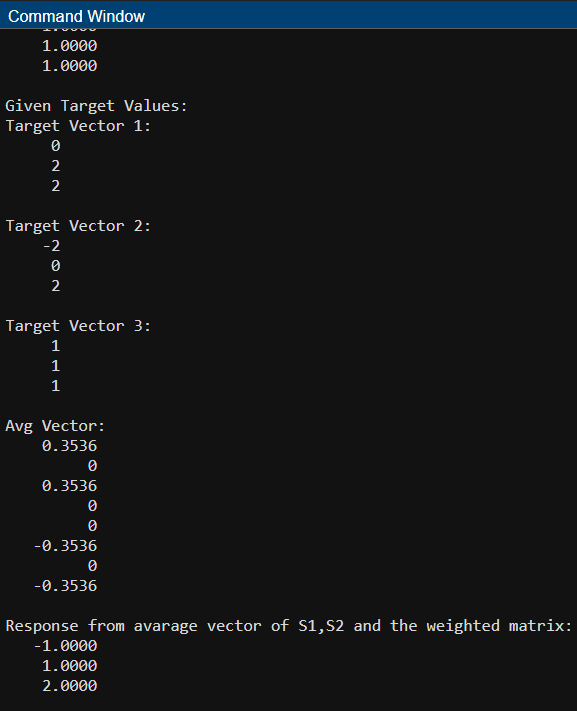
A screen shot of a computer

Description automatically generated A screenshot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generated



### Question 2:

We get ‘w’ from the previous code,

Explanation: The response vector that we get from the average vector of s1 and s2, is the average of the target vector 1 and target vector 2, since we multiply the average vector to the weighted associative matrix.

disp('Avg Vector:');

average\_normalized = (s1\_normalized + s2\_normalized) / 2;

ans2=w\*average\_normalized;

disp(average\_normalized);

disp('Response from avarage vector of S1,S2 and the weighted matrix:');

disp(ans2);

Output:

Avg Vector:

0.3536  
 0  
 0.3536  
 0  
 0  
 -0.3536  
 0  
 -0.3536

Response from avarage vector of S1,S2 and the weighted matrix:

-1.0000  
 1.0000  
 2.0000

Screenshots:

A black screen with white text

Description automatically generated

A black screen with white text

Description automatically generated

### Question 3:

### Part 1:

s1\_new=randn(1,100)';

s2\_new=randn(1,100)';

s3\_new=randn(1,100)';

T1 = [0, 2, 2]';

T2 = [-2, 0, 2]';

T3 = [1, 1, 1]';

disp('The input signal vectors:');

disp(s1\_new);

disp(s2\_new);

disp(s3\_new);

disp('Normalized input signal vectors:');

s1\_new\_norm=s1\_new/norm(s1\_new);

s2\_new\_norm=s2\_new/norm(s2\_new);

s3\_new\_norm=s3\_new/norm(s3\_new);

disp(s1\_new\_norm);

disp(s2\_new\_norm);

disp(s3\_new\_norm);

disp('The cosine matrix:');

cosine\_matrix = [dot(s1\_new\_norm, s1\_new\_norm), dot(s1\_new\_norm, s2\_new\_norm), dot(s1\_new\_norm, s3\_new\_norm);

                 dot(s2\_new\_norm, s1\_new\_norm), dot(s2\_new\_norm, s2\_new\_norm), dot(s2\_new\_norm, s3\_new\_norm);

                 dot(s3\_new\_norm, s1\_new\_norm), dot(s3\_new\_norm, s2\_new\_norm), dot(s3\_new\_norm, s3\_new\_norm)];

disp(cosine\_matrix);

disp('The associative weight matrix:');

w1 = T1 \* s1\_new\_norm';

w2 = T2 \* s2\_new\_norm';

w3 = T3 \* s3\_new\_norm';

w=w1+w2+w3;

disp(w)

response\_s1 = w \* s1\_new\_norm;

response\_s2 = w \* s2\_new\_norm;

response\_s3 = w \* s3\_new\_norm;

disp('The responses we get:')

disp(response\_s1);

disp(response\_s2);

disp(response\_s3);

disp('Given Target Values:')

disp(T1);

disp(T2);

disp(T3);

cosine\_sim1 = dot(T1, response\_s1) / (norm(T1) \* norm(response\_s1));

cosine\_sim2 = dot(T2, response\_s2) / (norm(T2) \* norm(response\_s2));

cosine\_sim3 = dot(T3, response\_s3) / (norm(T3) \* norm(response\_s3));

disp('Similarity between responses and corresponding targets:')

disp(cosine\_sim1);

disp(cosine\_sim2);

disp(cosine\_sim3);

Output:

The input signal vectors:

0.5377  
 1.8339  
 -2.2588  
 0.8622  
 0.3188  
 -1.3077  
 -0.4336  
 0.3426  
 3.5784  
 2.7694  
 -1.3499  
 3.0349  
 0.7254  
 -0.0631  
 0.7147  
 -0.2050  
 -0.1241  
 1.4897  
 1.4090  
 1.4172  
 0.6715  
 -1.2075  
 0.7172  
 1.6302  
 0.4889  
 1.0347  
 0.7269  
 -0.3034  
 0.2939  
 -0.7873  
 0.8884  
 -1.1471  
 -1.0689  
 -0.8095  
 -2.9443  
 1.4384  
 0.3252  
 -0.7549  
 1.3703  
 -1.7115  
 -0.1022  
 -0.2414  
 0.3192  
 0.3129  
 -0.8649  
 -0.0301  
 -0.1649  
 0.6277  
 1.0933  
 1.1093  
 -0.8637  
 0.0774  
 -1.2141  
 -1.1135  
 -0.0068  
 1.5326  
 -0.7697  
 0.3714  
 -0.2256  
 1.1174  
 -1.0891  
 0.0326  
 0.5525  
 1.1006  
 1.5442  
 0.0859  
 -1.4916  
 -0.7423  
 -1.0616  
 2.3505  
 -0.6156  
 0.7481  
 -0.1924  
 0.8886  
 -0.7648  
 -1.4023  
 -1.4224  
 0.4882  
 -0.1774  
 -0.1961  
 1.4193  
 0.2916  
 0.1978  
 1.5877  
 -0.8045  
 0.6966  
 0.8351  
 -0.2437  
 0.2157  
 -1.1658  
 -1.1480  
 0.1049  
 0.7223  
 2.5855  
 -0.6669  
 0.1873  
 -0.0825  
 -1.9330  
 -0.4390  
 -1.7947

0.8404  
 -0.8880  
 0.1001  
 -0.5445  
 0.3035  
 -0.6003  
 0.4900  
 0.7394  
 1.7119  
 -0.1941  
 -2.1384  
 -0.8396  
 1.3546  
 -1.0722  
 0.9610  
 0.1240  
 1.4367  
 -1.9609  
 -0.1977  
 -1.2078  
 2.9080  
 0.8252  
 1.3790  
 -1.0582  
 -0.4686  
 -0.2725  
 1.0984  
 -0.2779  
 0.7015  
 -2.0518  
 -0.3538  
 -0.8236  
 -1.5771  
 0.5080  
 0.2820  
 0.0335  
 -1.3337  
 1.1275  
 0.3502  
 -0.2991  
 0.0229  
 -0.2620  
 -1.7502  
 -0.2857  
 -0.8314  
 -0.9792  
 -1.1564  
 -0.5336  
 -2.0026  
 0.9642  
 0.5201  
 -0.0200  
 -0.0348  
 -0.7982  
 1.0187  
 -0.1332  
 -0.7145  
 1.3514  
 -0.2248  
 -0.5890  
 -0.2938  
 -0.8479  
 -1.1201  
 2.5260  
 1.6555  
 0.3075  
 -1.2571  
 -0.8655  
 -0.1765  
 0.7914  
 -1.3320  
 -2.3299  
 -1.4491  
 0.3335  
 0.3914  
 0.4517  
 -0.1303  
 0.1837  
 -0.4762  
 0.8620  
 -1.3617  
 0.4550  
 -0.8487  
 -0.3349  
 0.5528  
 1.0391  
 -1.1176  
 1.2607  
 0.6601  
 -0.0679  
 -0.1952  
 -0.2176  
 -0.3031  
 0.0230  
 0.0513  
 0.8261  
 1.5270  
 0.4669  
 -0.2097  
 0.6252

0.1832  
 -1.0298  
 0.9492  
 0.3071  
 0.1352  
 0.5152  
 0.2614  
 -0.9415  
 -0.1623  
 -0.1461  
 -0.5320  
 1.6821  
 -0.8757  
 -0.4838  
 -0.7120  
 -1.1742  
 -0.1922  
 -0.2741  
 1.5301  
 -0.2490  
 -1.0642  
 1.6035  
 1.2347  
 -0.2296  
 -1.5062  
 -0.4446  
 -0.1559  
 0.2761  
 -0.2612  
 0.4434  
 0.3919  
 -1.2507  
 -0.9480  
 -0.7411  
 -0.5078  
 -0.3206  
 0.0125  
 -3.0292  
 -0.4570  
 1.2424  
 -1.0667  
 0.9337  
 0.3503  
 -0.0290  
 0.1825  
 -1.5651  
 -0.0845  
 1.6039  
 0.0983  
 0.0414  
 -0.7342  
 -0.0308  
 0.2323  
 0.4264  
 -0.3728  
 -0.2365  
 2.0237  
 -2.2584  
 2.2294  
 0.3376  
 1.0001  
 -1.6642  
 -0.5900  
 -0.2781  
 0.4227  
 -1.6702  
 0.4716  
 -1.2128  
 0.0662  
 0.6524  
 0.3271  
 1.0826  
 1.0061  
 -0.6509  
 0.2571  
 -0.9444  
 -1.3218  
 0.9248  
 0.0000  
 -0.0549  
 0.9111  
 0.5946  
 0.3502  
 1.2503  
 0.9298  
 0.2398  
 -0.6904  
 -0.6516  
 1.1921  
 -1.6118  
 -0.0245  
 -1.9488  
 1.0205  
 0.8617  
 0.0012  
 -0.0708  
 -2.4863  
 0.5812  
 -2.1924  
 -2.3193

Normalized input signal vectors:

0.0462  
 0.1577  
 -0.1942  
 0.0741  
 0.0274  
 -0.1124  
 -0.0373  
 0.0295  
 0.3077  
 0.2381  
 -0.1161  
 0.2609  
 0.0624  
 -0.0054  
 0.0615  
 -0.0176  
 -0.0107  
 0.1281  
 0.1211  
 0.1218  
 0.0577  
 -0.1038  
 0.0617  
 0.1402  
 0.0420  
 0.0890  
 0.0625  
 -0.0261  
 0.0253  
 -0.0677  
 0.0764  
 -0.0986  
 -0.0919  
 -0.0696  
 -0.2531  
 0.1237  
 0.0280  
 -0.0649  
 0.1178  
 -0.1472  
 -0.0088  
 -0.0208  
 0.0274  
 0.0269  
 -0.0744  
 -0.0026  
 -0.0142  
 0.0540  
 0.0940  
 0.0954  
 -0.0743  
 0.0067  
 -0.1044  
 -0.0957  
 -0.0006  
 0.1318  
 -0.0662  
 0.0319  
 -0.0194  
 0.0961  
 -0.0936  
 0.0028  
 0.0475  
 0.0946  
 0.1328  
 0.0074  
 -0.1282  
 -0.0638  
 -0.0913  
 0.2021  
 -0.0529  
 0.0643  
 -0.0165  
 0.0764  
 -0.0658  
 -0.1206  
 -0.1223  
 0.0420  
 -0.0153  
 -0.0169  
 0.1220  
 0.0251  
 0.0170  
 0.1365  
 -0.0692  
 0.0599  
 0.0718  
 -0.0210  
 0.0185  
 -0.1002  
 -0.0987  
 0.0090  
 0.0621  
 0.2223  
 -0.0573  
 0.0161  
 -0.0071  
 -0.1662  
 -0.0377  
 -0.1543

0.0838  
 -0.0886  
 0.0100  
 -0.0543  
 0.0303  
 -0.0599  
 0.0489  
 0.0737  
 0.1707  
 -0.0194  
 -0.2133  
 -0.0837  
 0.1351  
 -0.1069  
 0.0958  
 0.0124  
 0.1433  
 -0.1956  
 -0.0197  
 -0.1205  
 0.2900  
 0.0823  
 0.1375  
 -0.1055  
 -0.0467  
 -0.0272  
 0.1096  
 -0.0277  
 0.0700  
 -0.2046  
 -0.0353  
 -0.0821  
 -0.1573  
 0.0507  
 0.0281  
 0.0033  
 -0.1330  
 0.1125  
 0.0349  
 -0.0298  
 0.0023  
 -0.0261  
 -0.1746  
 -0.0285  
 -0.0829  
 -0.0977  
 -0.1153  
 -0.0532  
 -0.1997  
 0.0962  
 0.0519  
 -0.0020  
 -0.0035  
 -0.0796  
 0.1016  
 -0.0133  
 -0.0713  
 0.1348  
 -0.0224  
 -0.0587  
 -0.0293  
 -0.0846  
 -0.1117  
 0.2519  
 0.1651  
 0.0307  
 -0.1254  
 -0.0863  
 -0.0176  
 0.0789  
 -0.1328  
 -0.2324  
 -0.1445  
 0.0333  
 0.0390  
 0.0450  
 -0.0130  
 0.0183  
 -0.0475  
 0.0860  
 -0.1358  
 0.0454  
 -0.0846  
 -0.0334  
 0.0551  
 0.1036  
 -0.1115  
 0.1257  
 0.0658  
 -0.0068  
 -0.0195  
 -0.0217  
 -0.0302  
 0.0023  
 0.0051  
 0.0824  
 0.1523  
 0.0466  
 -0.0209  
 0.0624

0.0180  
 -0.1012  
 0.0933  
 0.0302  
 0.0133  
 0.0506  
 0.0257  
 -0.0926  
 -0.0160  
 -0.0144  
 -0.0523  
 0.1654  
 -0.0861  
 -0.0476  
 -0.0700  
 -0.1154  
 -0.0189  
 -0.0269  
 0.1504  
 -0.0245  
 -0.1046  
 0.1576  
 0.1214  
 -0.0226  
 -0.1481  
 -0.0437  
 -0.0153  
 0.0271  
 -0.0257  
 0.0436  
 0.0385  
 -0.1229  
 -0.0932  
 -0.0729  
 -0.0499  
 -0.0315  
 0.0012  
 -0.2978  
 -0.0449  
 0.1221  
 -0.1049  
 0.0918  
 0.0344  
 -0.0029  
 0.0179  
 -0.1538  
 -0.0083  
 0.1577  
 0.0097  
 0.0041  
 -0.0722  
 -0.0030  
 0.0228  
 0.0419  
 -0.0366  
 -0.0232  
 0.1989  
 -0.2220  
 0.2192  
 0.0332  
 0.0983  
 -0.1636  
 -0.0580  
 -0.0273  
 0.0416  
 -0.1642  
 0.0464  
 -0.1192  
 0.0065  
 0.0641  
 0.0322  
 0.1064  
 0.0989  
 -0.0640  
 0.0253  
 -0.0928  
 -0.1299  
 0.0909  
 0.0000  
 -0.0054  
 0.0896  
 0.0584  
 0.0344  
 0.1229  
 0.0914  
 0.0236  
 -0.0679  
 -0.0640  
 0.1172  
 -0.1584  
 -0.0024  
 -0.1916  
 0.1003  
 0.0847  
 0.0001  
 -0.0070  
 -0.2444  
 0.0571  
 -0.2155  
 -0.2280

The cosine matrix:

1.0000 0.0671 0.1187  
 0.0671 1.0000 -0.1734  
 0.1187 -0.1734 1.0000

The associative weight matrix:

Columns 1 through 15  
  
 -0.1496 0.0759 0.0733 0.1388 -0.0473 0.1704 -0.0720 -0.2400 -0.3574 0.0244 0.3742 0.3328 -0.3563 0.1663 -0.2617  
 0.1105 0.2141 -0.2951 0.1784 0.0681 -0.1742 -0.0489 -0.0336 0.5994 0.4619 -0.2844 0.6872 0.0386 -0.0584 0.0529  
 0.2781 0.0370 -0.2751 0.0698 0.1286 -0.2940 0.0489 0.1138 0.9408 0.4231 -0.7110 0.5197 0.3089 -0.2723 0.2446  
  
 Columns 16 through 30  
  
 -0.1402 -0.3055 0.3642 0.1898 0.2165 -0.6847 -0.0070 -0.1537 0.1885 -0.0546 0.0106 -0.2344 0.0826 -0.1656 0.4529  
 -0.1507 -0.0402 0.2292 0.3927 0.2192 0.0109 -0.0500 0.2447 0.2578 -0.0640 0.1342 0.1097 -0.0250 0.0249 -0.0918  
 -0.1259 0.2463 -0.1619 0.3533 -0.0217 0.5909 0.1146 0.5198 0.0467 -0.1575 0.0799 0.3288 -0.0805 0.1648 -0.5011  
  
 Columns 31 through 45  
  
 0.1091 0.0413 0.2214 -0.1742 -0.1062 -0.0382 0.2673 -0.5227 -0.1148 0.1818 -0.1094 0.1440 0.3836 0.0541 0.1838  
 0.1913 -0.3202 -0.2770 -0.2120 -0.5562 0.2158 0.0571 -0.4276 0.1907 -0.1722 -0.1224 0.0503 0.0893 0.0509 -0.1308  
 0.1207 -0.4845 -0.5916 -0.1107 -0.5000 0.2225 -0.2089 -0.2027 0.2606 -0.2318 -0.1179 -0.0020 -0.2598 -0.0060 -0.2966  
  
 Columns 46 through 60  
  
 0.0415 0.2224 0.2641 0.4091 -0.1883 -0.1759 0.0010 0.0298 0.2011 -0.2398 0.0033 0.3415 -0.4916 0.2640 0.1507  
 -0.1590 -0.0367 0.2656 0.1977 0.1948 -0.2207 0.0103 -0.1859 -0.1496 -0.0378 0.2403 0.0666 -0.1581 0.1804 0.2253  
 -0.3543 -0.2673 0.1592 -0.2018 0.3871 -0.1169 0.0063 -0.1929 -0.3088 0.1654 0.2137 -0.0759 0.1114 0.1355 0.1078  
  
 Columns 61 through 75  
  
 0.1569 0.0055 0.1654 -0.5312 -0.2887 -0.2255 0.2971 0.0534 0.0417 -0.0937 0.2978 0.5712 0.3880 -0.1305 -0.0528  
 -0.0890 -0.1580 0.0370 0.1619 0.3071 -0.1494 -0.2101 -0.2469 -0.1760 0.4683 -0.0737 0.2351 0.0658 0.0888 -0.1062  
 -0.1476 -0.3271 -0.1864 0.6658 0.6373 -0.0881 -0.4609 -0.4195 -0.2112 0.6262 -0.3394 -0.2297 -0.2232 0.1553 -0.0282  
  
 Columns 76 through 90  
  
 -0.1829 -0.1039 0.0543 0.0950 -0.1773 0.3612 -0.0323 0.2037 0.1897 -0.0189 -0.1837 0.1551 -0.3155 -0.0145 -0.1449  
 -0.3340 -0.3745 0.1749 -0.0305 -0.0391 0.3336 0.1086 0.0684 0.3959 -0.0469 0.1434 0.0757 -0.1060 0.1543 -0.3589  
 -0.2439 -0.4005 0.2115 -0.1255 0.1328 0.0620 0.1994 -0.1009 0.3291 0.0633 0.3506 -0.1472 0.1455 0.2860 -0.3725  
  
 Columns 91 through 100  
  
 0.0365 -0.1482 0.1608 0.0801 -0.0101 -0.1717 -0.5490 -0.0360 -0.1737 -0.3527  
 -0.1998 -0.1735 0.2245 0.5293 -0.1146 0.0252 -0.2586 -0.2753 -0.2910 -0.5366  
 -0.2387 -0.2169 0.1641 0.5339 -0.1043 0.1900 0.0460 -0.1821 -0.3328 -0.4119

The responses we get:

-0.0156  
 2.1187  
 2.2529

-2.1734  
 -0.0391  
 1.9609

1.3468  
 1.2373  
 0.8905

Given Target Values:

0  
 2  
 2

-2  
 0  
 2

1  
 1  
 1

Similarity between responses and corresponding targets:

0.9995

0.9986

0.9862

Screenshots:

A screen shot of a computer screen

Description automatically generated

A screenshot of a computer program

Description automatically generated

A black background with many small squares

Description automatically generated

A black background with many small squares

Description automatically generated

A screenshot of a computer

Description automatically generated

### Question 3:

### Part 2:

s1\_new=randn(1,10000)';

s2\_new=randn(1,10000)';

s3\_new=randn(1,10000)';

T1 = [0, 2, 2]';

T2 = [-2, 0, 2]';

T3 = [1, 1, 1]';

disp('The input signal vectors:');

disp(s1\_new);

disp(s2\_new);

disp(s3\_new);

disp('Normalized input signal vectors:');

s1\_new\_norm=s1\_new/norm(s1\_new);

s2\_new\_norm=s2\_new/norm(s2\_new);

s3\_new\_norm=s3\_new/norm(s3\_new);

disp(s1\_new\_norm);

disp(s2\_new\_norm);

disp(s3\_new\_norm);

disp('The cosine matrix:');

cosine\_matrix = [dot(s1\_new\_norm, s1\_new\_norm), dot(s1\_new\_norm, s2\_new\_norm), dot(s1\_new\_norm, s3\_new\_norm);

                 dot(s2\_new\_norm, s1\_new\_norm), dot(s2\_new\_norm, s2\_new\_norm), dot(s2\_new\_norm, s3\_new\_norm);

                 dot(s3\_new\_norm, s1\_new\_norm), dot(s3\_new\_norm, s2\_new\_norm), dot(s3\_new\_norm, s3\_new\_norm)];

disp(cosine\_matrix);

disp('The associative weight matrix:');

w1 = T1 \* s1\_new\_norm';

w2 = T2 \* s2\_new\_norm';

w3 = T3 \* s3\_new\_norm';

w=w1+w2+w3;

disp(w)

response\_s1 = w \* s1\_new\_norm;

response\_s2 = w \* s2\_new\_norm;

response\_s3 = w \* s3\_new\_norm;

disp('The responses we get:')

disp(response\_s1);

disp(response\_s2);

disp(response\_s3);

disp('Given Target Values:')

disp(T1);

disp(T2);

disp(T3);

cosine\_sim1 = dot(T1, response\_s1) / (norm(T1) \* norm(response\_s1));

cosine\_sim2 = dot(T2, response\_s2) / (norm(T2) \* norm(response\_s2));

cosine\_sim3 = dot(T3, response\_s3) / (norm(T3) \* norm(response\_s3));

disp('Similarity between response and corresponding targets:')

disp(cosine\_sim1);

disp(cosine\_sim2);

disp(cosine\_sim3);

Output:

The cosine matrix:

1.0000 0.0086 0.0001  
 0.0086 1.0000 -0.0020  
 0.0001 -0.0020 1.0000

The associative weight matrix:

Columns 1 through 15  
  
 0.0116 -0.0182 0.0027 0.0215 -0.0116 0.0096 -0.0119 0.0019 0.0341 0.0011 -0.0236 -0.0152 0.0167 0.0006 0.0035  
 0.0257 -0.0154 0.0021 0.0094 0.0190 -0.0003 0.0063 0.0037 0.0337 0.0217 0.0134 -0.0120 0.0094 0.0201 -0.0441  
 0.0382 0.0066 -0.0068 -0.0165 0.0323 0.0037 0.0154 0.0034 0.0166 0.0314 0.0323 -0.0061 0.0051 0.0193 -0.0487  
  
 Columns 16 through 30  
  
 0.0141 -0.0319 -0.0302 0.0130 0.0064 -0.0219 -0.0279 -0.0022 -0.0177 -0.0284 0.0043 0.0085 -0.0094 0.0127 -0.0096  
 -0.0240 -0.0523 -0.0166 0.0273 0.0118 -0.0291 -0.0131 0.0098 -0.0137 -0.0178 0.0008 -0.0077 0.0098 -0.0316 0.0279  
 -0.0518 -0.0469 0.0049 0.0285 0.0004 -0.0157 0.0113 0.0190 -0.0037 -0.0133 -0.0108 -0.0050 0.0325 -0.0327 0.0421  
  
 Columns 31 through 45  
  
 0.0030 -0.0226 0.0196 0.0163 0.0539 -0.0285 -0.0082 -0.0021 -0.0146 0.0399 -0.0028 -0.0432 -0.0162 -0.0020 0.0152  
 -0.0109 -0.0350 0.0020 -0.0366 0.0043 -0.0250 0.0429 0.0356 -0.0536 0.0130 -0.0290 -0.0094 0.0059 0.0101 0.0002  
 -0.0122 -0.0231 -0.0105 -0.0606 -0.0448 -0.0103 0.0499 0.0503 -0.0421 -0.0228 -0.0269 0.0297 0.0246 0.0071 -0.0092  
  
 Columns 46 through 60  
  
 0.0004 -0.0133 -0.0081 0.0278 0.0140 0.0148 -0.0004 -0.0241 -0.0116 0.0340 -0.0067 -0.0099 0.0113 0.0346 0.0142  
 0.0249 -0.0178 0.0023 0.0232 0.0066 0.0270 0.0283 -0.0195 -0.0420 0.0462 -0.0141 0.0080 0.0188 0.0106 -0.0195  
 0.0175 -0.0126 0.0061 0.0052 -0.0026 0.0212 0.0504 0.0011 -0.0359 0.0207 -0.0092 0.0238 0.0149 -0.0158 -0.0350  
  
 Columns 61 through 75  
  
 0.0038 -0.0000 -0.0228 -0.0126 -0.0073 -0.0053 -0.0125 0.0061 -0.0060 0.0178 -0.0085 -0.0246 -0.0188 -0.0242 0.0188  
 0.0101 -0.0039 0.0148 -0.0237 0.0238 0.0203 -0.0083 -0.0041 -0.0043 -0.0070 -0.0195 0.0004 -0.0288 -0.0310 0.0142  
 0.0259 -0.0053 0.0226 -0.0174 0.0390 0.0396 0.0006 0.0071 0.0031 -0.0301 -0.0008 0.0215 -0.0221 -0.0358 0.0027  
  
 Columns 76 through 90  
  
 0.0370 -0.0105 -0.0242 -0.0417 -0.0058 0.0040 -0.0255 -0.0361 -0.0273 0.0122 0.0147 -0.0059 -0.0060 -0.0122 0.0116  
 -0.0129 -0.0157 -0.0049 -0.0594 0.0126 0.0433 0.0286 -0.0080 0.0296 -0.0277 0.0268 0.0164 0.0178 -0.0161 0.0081  
 -0.0444 -0.0151 0.0073 -0.0401 0.0101 0.0335 0.0633 0.0265 0.0779 -0.0466 0.0009 0.0197 0.0256 -0.0023 -0.0018  
  
 Columns 91 through 105  
  
 0.0083 0.0120 0.0364 0.0058 -0.0004 0.0198 0.0047 -0.0134 -0.0197 -0.0287 -0.0485 -0.0079 -0.0571 -0.0512 -0.0213  
 -0.0070 -0.0005 -0.0149 -0.0315 -0.0174 0.0072 -0.0127 0.0109 -0.0160 -0.0020 -0.0016 -0.0029 -0.0334 -0.0343 -0.0048  
 -0.0110 -0.0067 -0.0546 -0.0481 -0.0161 -0.0012 0.0043 0.0228 -0.0100 0.0105 0.0398 -0.0080 0.0204 0.0031 0.0207  
  
 Columns 106 through 120  
  
 0.0560 0.0235 0.0281 -0.0002 0.0190 -0.0023 -0.0424 0.0180 0.0396 -0.0023 0.0013 -0.0119 0.0017 0.0133 0.0168  
 0.0186 0.0349 -0.0044 0.0294 0.0073 0.0126 -0.0101 -0.0201 -0.0276 -0.0142 0.0127 -0.0040 -0.0068 -0.0001 -0.0007  
 -0.0212 0.0235 -0.0310 0.0334 -0.0141 0.0037 0.0198 -0.0448 -0.0649 -0.0293 0.0075 0.0098 -0.0045 -0.0072 0.0040  
  
 Columns 121 through 135  
  
 0.0171 -0.0005 -0.0370 0.0098 -0.0291 0.0144 0.0070 0.0188 -0.0043 0.0061 0.0354 0.0342 0.0077 -0.0027 -0.0375  
 -0.0158 0.0019 -0.0152 0.0081 0.0072 0.0099 0.0642 -0.0020 0.0331 0.0030 0.0249 -0.0009 0.0080 0.0041 -0.0544  
 -0.0388 0.0080 0.0057 0.0077 0.0311 0.0032 0.0848 -0.0291 0.0340 0.0145 0.0038 -0.0306 -0.0040 -0.0011 -0.0270  
  
 Columns 136 through 150  
  
 0.0121 -0.0183 0.0081 0.0292 0.0076 -0.0378 0.0055 -0.0289 -0.0142 0.0174 -0.0290 -0.0012 0.0121 -0.0058 0.0155  
 -0.0351 -0.0263 0.0110 0.0464 -0.0061 0.0217 0.0041 -0.0197 -0.0044 -0.0080 0.0159 0.0006 0.0434 -0.0047 0.0179  
 -0.0554 -0.0053 0.0058 0.0339 -0.0132 0.0648 -0.0083 0.0109 -0.0027 -0.0181 0.0301 0.0030 0.0417 0.0051 0.0083  
  
 Columns 151 through 165  
  
 -0.0476 -0.0290 -0.0211 -0.0166 0.0034 -0.0379 -0.0033 0.0140 -0.0056 0.0034 -0.0253 0.0100 -0.0360 -0.0052 -0.0085  
 -0.0061 -0.0679 -0.0247 0.0164 -0.0165 -0.0308 0.0038 0.0040 -0.0194 0.0047 -0.0134 0.0461 -0.0395 0.0001 -0.0339  
 0.0366 -0.0659 -0.0084 0.0369 -0.0353 -0.0011 0.0237 -0.0111 -0.0130 -0.0138 0.0114 0.0456 -0.0212 0.0013 -0.0285  
  
 Columns 166 through 180  
  
 0.0138 0.0227 0.0210 -0.0437 -0.0021 -0.0175 -0.0136 -0.0597 0.0132 -0.0319 0.0170 -0.0035 0.0254 -0.0268 -0.0044  
 -0.0108 0.0015 0.0253 0.0243 0.0216 -0.0137 0.0139 0.0049 0.0248 -0.0071 0.0130 -0.0238 0.0199 -0.0291 -0.0301  
 -0.0208 -0.0078 0.0215 0.0732 0.0391 -0.0024 0.0250 0.0532 0.0340 0.0061 0.0006 -0.0242 -0.0011 -0.0181 -0.0436  
  
 Columns 181 through 195  
  
 -0.0245 -0.0000 0.0062 0.0136 0.0204 -0.0138 -0.0235 -0.0048 -0.0515 -0.0155 -0.0035 0.0218 -0.0128 0.0134 -0.0123  
 0.0066 0.0135 0.0022 0.0184 0.0139 -0.0007 0.0004 -0.0116 -0.0044 0.0054 -0.0039 0.0279 0.0149 0.0003 0.0208  
 0.0341 0.0333 0.0009 0.0112 -0.0138 0.0165 0.0177 -0.0136 0.0380 0.0174 0.0083 0.0283 0.0304 -0.0147 0.0188  
  
 Columns 196 through 210  
  
 0.0281 0.0308 0.0283 -0.0236 0.0543 -0.0524 -0.0156 0.0576 -0.0008 -0.0122 0.0099 -0.0161 0.0006 -0.0124 -0.0312  
 -0.0042 -0.0090 -0.0442 0.0269 0.0308 -0.0066 0.0180 0.0187 0.0032 0.0080 0.0049 0.0020 0.0361 -0.0340 -0.0380  
 -0.0243 -0.0338 -0.0812 0.0590 -0.0101 0.0409 0.0334 -0.0240 0.0014 0.0258 -0.0090 0.0181 0.0151 -0.0320 -0.0073  
  
 Columns 211 through 225  
  
 -0.0149 -0.0440 0.0048 0.0089 -0.0028 -0.0109 -0.0654 0.0317 -0.0061 0.0289 -0.0395 -0.0170 -0.0148 0.0161 -0.0163  
 -0.0304 -0.0411 -0.0027 -0.0082 0.0031 0.0011 -0.0145 0.0303 0.0319 0.0241 -0.0327 -0.0508 0.0320 -0.0262 -0.0058  
 -0.0229 -0.0161 -0.0014 -0.0219 0.0135 0.0022 0.0284 0.0138 0.0339 -0.0054 0.0001 -0.0375 0.0606 -0.0313 0.0033  
  
 Columns 226 through 240  
  
 -0.0215 0.0020 -0.0143 0.0235 0.0007 0.0199 0.0125 0.0395 -0.0037 0.0015 -0.0115 -0.0235 0.0166 0.0158 -0.0013  
 0.0055 0.0411 -0.0042 -0.0151 -0.0004 0.0224 -0.0002 -0.0046 -0.0227 0.0128 -0.0261 -0.0248 0.0259 0.0126 -0.0012  
 0.0317 0.0352 0.0073 -0.0435 -0.0063 0.0200 -0.0143 -0.0364 -0.0169 0.0176 -0.0136 -0.0053 0.0083 0.0179 0.0017  
  
 Columns 241 through 255  
  
 -0.0306 -0.0218 0.0336 0.0246 0.0149 -0.0278 -0.0159 0.0107 0.0203 0.0202 -0.0010 -0.0202 -0.0068 -0.0181 -0.0452  
 0.0117 -0.0092 0.0386 -0.0190 0.0190 0.0049 -0.0204 -0.0110 -0.0148 0.0021 -0.0005 -0.0131 0.0234 -0.0205 0.0015  
 0.0359 0.0095 0.0228 -0.0556 0.0026 0.0248 -0.0205 -0.0151 -0.0289 -0.0105 0.0088 0.0021 0.0336 -0.0169 0.0251  
  
 Columns 256 through 270  
  
 0.0019 0.0153 0.0052 -0.0088 0.0194 0.0419 0.0041 0.0013 -0.0459 -0.0043 -0.0164 0.0147 0.0241 0.0147 -0.0057  
 -0.0125 0.0346 -0.0251 -0.0012 0.0361 0.0129 0.0064 0.0473 0.0149 -0.0026 0.0072 0.0039 0.0163 0.0194 -0.0314  
 -0.0161 0.0343 -0.0449 0.0028 0.0331 -0.0077 0.0176 0.0528 0.0565 0.0078 0.0176 0.0003 -0.0057 -0.0046 -0.0245  
  
 Columns 271 through 285  
  
 -0.0220 0.0083 -0.0335 0.0024 -0.0030 0.0134 0.0187 -0.0187 0.0423 0.0474 -0.0218 0.0044 -0.0201 0.0051 0.0076  
 0.0298 0.0454 -0.0133 0.0278 0.0065 -0.0170 -0.0416 -0.0105 0.0510 -0.0110 0.0256 -0.0133 -0.0094 -0.0372 -0.0046  
 0.0607 0.0530 0.0059 0.0179 0.0128 -0.0223 -0.0576 0.0045 0.0454 -0.0759 0.0647 -0.0193 -0.0017 -0.0463 -0.0014  
  
 Columns 286 through 300  
  
 0.0141 -0.0182 0.0169 0.0265 0.0198 0.0109 -0.0205 -0.0193 -0.0696 0.0077 0.0088 0.0234 0.0162 0.0059 -0.0148  
 -0.0077 -0.0089 0.0079 -0.0191 0.0103 0.0029 -0.0379 0.0304 -0.0049 0.0005 0.0091 0.0058 0.0076 0.0175 0.0159  
 -0.0130 -0.0102 -0.0009 -0.0414 0.0011 0.0088 -0.0419 0.0626 0.0575 -0.0147 -0.0085 -0.0154 -0.0121 0.0152 0.0228  
  
 Columns 301 through 315  
  
 0.0136 0.0281 -0.0420 -0.0172 0.0187 0.0156 0.0030 0.0105 0.0179 0.0323 -0.0043 0.0198 -0.0021 0.0161 -0.0096  
 0.0264 0.0303 -0.0108 0.0011 0.0333 0.0005 -0.0069 0.0279 0.0081 0.0463 0.0203 0.0196 -0.0179 0.0205 -0.0405  
 0.0295 0.0039 0.0200 0.0205 0.0134 -0.0043 -0.0167 0.0266 -0.0049 0.0319 0.0239 0.0135 -0.0179 0.0134 -0.0434  
  
 Columns 316 through 330  
  
 -0.0090 0.0136 -0.0219 -0.0205 0.0510 0.0016 0.0140 -0.0265 0.0267 -0.0530 -0.0100 0.0308 0.0002 0.0163 -0.0207  
 0.0003 0.0168 0.0104 0.0095 0.0367 0.0069 0.0323 0.0053 0.0066 -0.0440 -0.0192 0.0252 -0.0092 0.0150 -0.0094  
 0.0046 0.0036 0.0383 0.0217 -0.0189 -0.0065 0.0453 0.0242 -0.0222 -0.0083 -0.0200 -0.0051 -0.0178 0.0019 0.0223  
  
 Columns 331 through 345  
  
 0.0401 0.0278 0.0037 0.0027 0.0389 -0.0271 0.0484 0.0250 0.0062 -0.0213 -0.0133 -0.0026 -0.0256 0.0106 -0.0257  
 -0.0028 0.0236 -0.0160 0.0247 0.0024 -0.0185 0.0192 -0.0312 -0.0439 -0.0281 -0.0222 -0.0263 -0.0428 0.0055 -0.0263  
 -0.0469 0.0073 -0.0082 0.0397 -0.0303 0.0090 -0.0092 -0.0490 -0.0509 -0.0111 -0.0111 -0.0262 -0.0251 -0.0055 0.0054  
  
 Columns 346 through 360  
  
 -0.0029 0.0268 0.0121 0.0249 0.0304 -0.0057 0.0163 -0.0049 -0.0101 0.0117 -0.0126 0.0025 -0.0299 0.0106 -0.0081  
 0.0012 0.0056 -0.0062 0.0069 -0.0001 -0.0224 -0.0090 0.0145 0.0226 -0.0126 -0.0433 -0.0083 0.0150 -0.0245 -0.0260  
 0.0031 -0.0316 -0.0244 -0.0129 -0.0229 -0.0091 -0.0334 0.0145 0.0202 -0.0282 -0.0411 -0.0225 0.0522 -0.0550 -0.0206  
  
 Columns 361 through 375  
  
 0.0164 0.0041 0.0371 -0.0136 0.0259 -0.0282 -0.0066 0.0043 0.0346 0.0177 -0.0005 0.0183 0.0007 0.0530 0.0249  
 0.0473 -0.0478 -0.0081 -0.0234 0.0173 0.0003 0.0087 -0.0261 0.0257 0.0199 0.0231 -0.0126 0.0169 0.0223 0.0558  
 0.0372 -0.0520 -0.0430 -0.0064 0.0217 0.0224 0.0213 -0.0422 0.0010 0.0096 0.0335 -0.0349 0.0120 -0.0218 0.0360  
  
 Columns 376 through 390  
  
 0.0060 -0.0081 -0.0016 0.0064 -0.0207 0.0048 0.0351 -0.0329 -0.0137 0.0026 -0.0009 0.0022 -0.0093 -0.0135 0.0044  
 0.0371 0.0318 0.0276 -0.0112 -0.0210 -0.0303 -0.0162 -0.0016 -0.0141 -0.0066 0.0040 -0.0099 0.0217 -0.0134 0.0050  
 0.0466 0.0483 0.0556 -0.0027 -0.0137 -0.0500 -0.0561 0.0184 -0.0032 0.0024 0.0172 -0.0187 0.0443 0.0060 -0.0008  
  
 Columns 391 through 405  
  
 0.0206 0.0148 -0.0166 -0.0234 -0.0182 0.0345 -0.0011 0.0669 0.0450 0.0180 -0.0085 0.0003 0.0015 -0.0253 0.0236  
 0.0097 0.0406 -0.0075 -0.0030 -0.0219 -0.0317 0.0111 -0.0001 0.0229 -0.0172 0.0310 0.0016 0.0202 -0.0090 0.0226  
 -0.0027 0.0396 0.0060 0.0202 -0.0020 -0.0699 0.0170 -0.0620 -0.0093 -0.0342 0.0319 0.0005 0.0177 0.0119 0.0250  
  
 Columns 406 through 420  
  
 -0.0213 0.0021 0.0119 0.0238 -0.0279 0.0091 -0.0072 -0.0028 0.0135 0.0176 0.0291 -0.0107 -0.0351 -0.0299 -0.0023  
 0.0104 0.0118 -0.0292 -0.0311 -0.0259 -0.0279 0.0038 -0.0113 -0.0045 -0.0006 0.0278 0.0168 -0.0112 0.0275 -0.0064  
 0.0282 0.0103 -0.0477 -0.0550 -0.0017 -0.0363 0.0135 -0.0114 -0.0151 0.0087 0.0109 0.0353 0.0146 0.0642 0.0073  
  
 Columns 421 through 435  
  
 -0.0416 -0.0132 0.0467 -0.0074 -0.0194 0.0365 -0.0109 0.0239 0.0089 -0.0080 -0.0078 -0.0128 -0.0249 0.0042 -0.0305  
 -0.0143 0.0097 0.0334 -0.0245 -0.0044 0.0031 -0.0335 -0.0290 0.0246 -0.0205 -0.0045 -0.0235 -0.0111 -0.0656 -0.0331  
 0.0045 0.0256 0.0131 -0.0268 0.0041 -0.0200 -0.0380 -0.0575 0.0193 -0.0159 0.0022 -0.0097 0.0087 -0.0699 -0.0137  
  
 Columns 436 through 450  
  
 -0.0415 0.0140 -0.0218 -0.0236 0.0175 -0.0080 0.0117 0.0229 0.0398 -0.0256 0.0396 -0.0185 0.0001 -0.0121 -0.0033  
 -0.0495 -0.0097 -0.0239 -0.0119 0.0556 -0.0342 -0.0037 -0.0218 0.0083 -0.0278 -0.0018 -0.0031 0.0108 -0.0221 -0.0406  
 -0.0286 -0.0128 -0.0216 0.0065 0.0542 -0.0488 -0.0139 -0.0348 -0.0136 -0.0030 -0.0439 -0.0050 0.0135 -0.0180 -0.0449  
  
 Columns 451 through 465  
  
 0.0341 0.0094 0.0146 -0.0261 0.0090 -0.0184 -0.0066 0.0152 0.0277 0.0243 0.0177 0.0075 0.0023 -0.0183 -0.0136  
 0.0328 0.0399 -0.0037 -0.0323 0.0253 -0.0207 -0.0173 0.0218 -0.0152 -0.0433 0.0101 0.0033 0.0020 0.0001 0.0129  
 0.0020 0.0289 -0.0244 -0.0184 0.0173 -0.0112 -0.0186 0.0105 -0.0300 -0.0712 -0.0060 -0.0090 -0.0002 0.0085 0.0175  
  
 Columns 466 through 480  
  
 -0.0212 0.0130 -0.0284 -0.0010 0.0200 -0.0267 -0.0006 -0.0110 0.0085 0.0053 0.0242 0.0021 -0.0106 -0.0344 0.0207  
 0.0157 0.0025 0.0087 -0.0012 0.0039 -0.0344 0.0190 -0.0154 0.0003 -0.0139 -0.0249 0.0017 -0.0079 0.0221 0.0280  
 0.0330 0.0035 0.0293 -0.0049 -0.0020 -0.0180 0.0255 -0.0126 -0.0088 -0.0169 -0.0426 -0.0022 -0.0040 0.0542 0.0191  
  
 Columns 481 through 495  
  
 0.0277 -0.0013 0.0083 -0.0085 0.0007 0.0528 -0.0256 -0.0163 -0.0038 0.0307 0.0160 0.0417 0.0217 -0.0257 0.0233  
 0.0405 -0.0119 -0.0077 -0.0340 0.0129 0.0679 0.0156 -0.0195 0.0047 -0.0053 -0.0267 0.0223 0.0010 0.0048 0.0203  
 0.0320 -0.0073 -0.0048 -0.0338 0.0151 0.0266 0.0421 -0.0070 -0.0038 -0.0185 -0.0406 -0.0115 -0.0040 0.0288 -0.0113  
  
 Columns 496 through 510

0.0344 -0.0162 0.0175 0.0073 0.0134 0.0083 0.0164 -0.0008 -0.0041 -0.0050 -0.0071 0.0055 0.0408 0.0027 0.0212  
 0.0074 0.0021 -0.0422 0.0149 0.0415 0.0279 -0.0235 -0.0024 -0.0057 0.0109 0.0110 0.0078 -0.0164 -0.0043 -0.0095  
 -0.0278 0.0016 -0.0694 0.0091 0.0263 0.0366 -0.0322 0.0000 0.0027 0.0191 0.0207 0.0019 -0.0662 0.0007 -0.0282  
  
 Columns 511 through 525  
  
 -0.0220 0.0195 -0.0236 0.0090 0.0153 -0.0071 -0.0577 0.0375 -0.0561 -0.0146 0.0264 0.0014 -0.0150 0.0034 0.0267  
 0.0060 -0.0447 -0.0071 -0.0037 -0.0111 0.0105 -0.0118 -0.0005 -0.0168 -0.0101 0.0001 0.0024 -0.0093 -0.0435 0.0098  
 0.0167 -0.0715 0.0135 -0.0219 -0.0243 0.0186 0.0355 -0.0196 0.0193 -0.0002 -0.0180 0.0178 -0.0048 -0.0529 0.0010  
  
 Columns 526 through 540  
  
 0.0449 -0.0063 -0.0078 -0.0212 -0.0090 -0.0156 -0.0104 -0.0162 0.0354 -0.0053 0.0174 -0.0029 -0.0170 0.0029 -0.0402  
 -0.0075 -0.0280 0.0161 -0.0307 -0.0047 0.0256 -0.0216 0.0018 0.0250 -0.0109 0.0341 -0.0139 0.0062 -0.0102 -0.0518  
 -0.0489 -0.0312 0.0268 -0.0254 -0.0114 0.0471 -0.0296 0.0142 0.0016 -0.0148 0.0399 0.0006 0.0070 -0.0032 -0.0265  
  
 Columns 541 through 555  
  
 -0.0364 0.0306 0.0054 -0.0109 0.0092 0.0021 -0.0132 -0.0350 0.0184 -0.0044 0.0233 0.0162 -0.0021 0.0211 -0.0301  
 0.0167 0.0180 0.0192 0.0130 -0.0081 -0.0594 0.0281 -0.0228 0.0012 0.0038 -0.0281 -0.0036 0.0393 0.0072 -0.0354  
 0.0418 0.0066 0.0240 0.0442 -0.0047 -0.0588 0.0567 -0.0048 -0.0121 0.0039 -0.0508 -0.0086 0.0574 -0.0188 -0.0148  
  
 Columns 556 through 570  
  
 0.0056 0.0214 0.0134 0.0420 0.0093 0.0164 0.0429 0.0070 0.0094 0.0260 -0.0209 0.0113 0.0068 -0.0069 0.0111  
 -0.0467 -0.0043 0.0029 0.0181 0.0093 -0.0295 0.0152 -0.0169 -0.0219 0.0047 -0.0432 0.0092 -0.0185 -0.0185 -0.0063  
 -0.0545 -0.0183 -0.0119 -0.0248 0.0073 -0.0528 -0.0186 -0.0170 -0.0337 -0.0033 -0.0407 0.0125 -0.0256 -0.0242 -0.0143  
  
 Columns 571 through 585  
  
 -0.0066 0.0429 0.0326 0.0037 -0.0182 -0.0002 -0.0228 -0.0187 -0.0041 0.0316 0.0214 -0.0068 -0.0215 -0.0047 -0.0059  
 -0.0201 0.0138 0.0312 -0.0067 -0.0063 -0.0298 -0.0376 -0.0346 0.0332 0.0299 -0.0109 -0.0307 -0.0308 0.0366 0.0273  
 -0.0253 -0.0051 0.0049 -0.0294 0.0043 -0.0297 -0.0194 -0.0108 0.0178 0.0086 -0.0484 -0.0350 -0.0168 0.0668 0.0288  
  
 Columns 586 through 600  
  
 0.0228 -0.0146 0.0156 0.0139 -0.0037 0.0329 0.0150 -0.0043 -0.0384 -0.0143 -0.0331 0.0102 -0.0078 0.0229 0.0043  
 -0.0208 -0.0192 -0.0027 -0.0245 0.0117 -0.0005 0.0469 -0.0029 -0.0014 -0.0264 -0.0066 -0.0274 0.0038 0.0458 -0.0048  
 -0.0302 -0.0148 -0.0193 -0.0227 0.0101 -0.0255 0.0401 0.0064 0.0273 -0.0153 0.0326 -0.0414 0.0076 0.0425 -0.0018  
  
 Columns 601 through 615  
  
 0.0251 -0.0073 0.0119 -0.0093 0.0151 0.0117 0.0017 -0.0105 -0.0003 0.0183 0.0330 -0.0089 0.0148 -0.0057 -0.0191  
 0.0123 -0.0195 0.0076 0.0074 0.0102 -0.0145 -0.0154 0.0122 -0.0118 0.0007 0.0034 0.0205 0.0113 -0.0229 -0.0562  
 -0.0094 -0.0216 0.0012 -0.0002 0.0028 -0.0197 -0.0152 0.0383 -0.0195 0.0006 -0.0298 0.0242 0.0129 -0.0360 -0.0487  
  
 Columns 616 through 630  
  
 0.0051 0.0187 0.0282 -0.0130 0.0143 -0.0339 -0.0186 -0.0137 -0.0149 0.0387 -0.0207 -0.0034 0.0232 0.0164 0.0129  
 -0.0164 -0.0150 -0.0024 0.0153 0.0265 0.0047 -0.0185 -0.0057 0.0166 0.0213 0.0208 0.0239 -0.0259 0.0074 0.0028  
 -0.0222 -0.0205 -0.0252 0.0330 0.0079 0.0068 -0.0161 0.0088 0.0315 -0.0060 0.0468 0.0355 -0.0450 -0.0126 -0.0055  
  
 Columns 631 through 645  
  
 0.0171 -0.0235 -0.0177 0.0046 -0.0238 -0.0105 -0.0070 -0.0326 0.0554 -0.0155 -0.0156 -0.0018 -0.0257 0.0125 0.0083  
 -0.0090 -0.0181 0.0288 -0.0075 -0.0281 -0.0039 0.0604 -0.0075 0.0361 -0.0176 0.0257 -0.0037 0.0020 -0.0159 0.0141  
 -0.0199 0.0014 0.0494 -0.0032 -0.0074 -0.0017 0.0872 0.0171 0.0105 -0.0007 0.0331 -0.0081 0.0190 -0.0249 0.0027  
  
 Columns 646 through 660  
  
 -0.0155 0.0006 0.0055 -0.0138 0.0023 -0.0205 -0.0273 0.0135 -0.0089 -0.0094 -0.0157 -0.0029 0.0056 0.0171 -0.0124  
 0.0038 -0.0249 0.0082 0.0002 -0.0054 -0.0207 -0.0157 -0.0309 -0.0134 0.0027 0.0288 -0.0211 0.0543 0.0314 0.0096  
 0.0153 -0.0270 0.0102 0.0233 -0.0154 -0.0158 -0.0002 -0.0544 -0.0113 -0.0007 0.0380 -0.0159 0.0549 0.0148 0.0282  
  
 Columns 661 through 675  
  
 -0.0389 -0.0160 -0.0209 -0.0091 0.0044 -0.0052 0.0199 -0.0151 -0.0054 0.0507 0.0355 -0.0197 0.0073 0.0018 0.0373  
 -0.0149 -0.0202 0.0130 -0.0221 -0.0129 0.0163 -0.0026 0.0365 0.0236 0.0056 -0.0014 0.0080 -0.0095 0.0252 0.0210  
 0.0152 -0.0103 0.0301 -0.0212 -0.0209 0.0199 -0.0339 0.0699 0.0424 -0.0314 -0.0279 0.0196 -0.0127 0.0246 -0.0113  
  
 Columns 676 through 690  
  
 0.0136 -0.0095 -0.0021 0.0354 -0.0155 0.0199 -0.0143 -0.0348 -0.0358 -0.0114 -0.0036 0.0076 -0.0237 -0.0089 0.0084  
 0.0219 -0.0058 0.0181 0.0770 0.0028 -0.0330 0.0257 0.0081 -0.0221 0.0494 0.0290 -0.0097 -0.0228 -0.0120 -0.0482  
 0.0245 -0.0022 0.0310 0.0473 0.0234 -0.0544 0.0269 0.0386 0.0047 0.0572 0.0504 -0.0329 -0.0062 0.0064 -0.0689  
  
 Columns 691 through 705  
  
 0.0091 -0.0509 -0.0089 -0.0087 -0.0032 0.0047 0.0391 0.0101 -0.0086 0.0221 0.0015 -0.0093 -0.0328 0.0048 -0.0063  
 0.0033 -0.0145 0.0236 0.0100 0.0448 0.0119 0.0041 0.0028 -0.0057 -0.0303 0.0123 -0.0141 0.0045 -0.0181 0.0071  
 0.0061 0.0431 0.0430 0.0351 0.0571 -0.0115 -0.0342 0.0012 -0.0262 -0.0594 0.0095 -0.0054 0.0499 -0.0273 0.0090  
  
 Columns 706 through 720  
  
 -0.0565 0.0181 -0.0241 0.0134 -0.0264 0.0004 -0.0259 -0.0147 -0.0141 0.0533 0.0192 0.0265 0.0452 -0.0106 -0.0234  
 -0.0196 -0.0244 -0.0078 -0.0005 0.0075 -0.0044 0.0052 -0.0583 0.0106 0.0570 0.0254 0.0183 0.0099 0.0114 0.0026  
 0.0330 -0.0453 -0.0027 -0.0059 0.0340 -0.0022 0.0308 -0.0500 0.0259 0.0233 0.0106 -0.0084 -0.0206 0.0298 0.0237  
  
 Columns 721 through 735  
  
 -0.0026 0.0134 -0.0267 -0.0544 -0.0184 0.0072 0.0476 -0.0296 -0.0035 -0.0277 0.0183 -0.0281 0.0185 0.0290 0.0162  
 -0.0034 -0.0234 -0.0127 -0.0212 -0.0140 0.0076 0.0899 -0.0422 0.0004 -0.0362 0.0248 0.0314 -0.0209 0.0539 -0.0294  
 -0.0062 -0.0433 0.0083 0.0156 0.0002 -0.0090 0.0808 -0.0280 0.0016 -0.0155 0.0050 0.0624 -0.0267 0.0396 -0.0531  
  
 Columns 736 through 750  
  
 -0.0159 0.0012 -0.0026 0.0204 0.0348 0.0127 0.0025 -0.0511 0.0125 -0.0261 0.0019 -0.0067 -0.0138 -0.0139 0.0015  
 0.0059 0.0167 -0.0052 0.0593 0.0695 0.0012 -0.0385 -0.0147 -0.0122 -0.0255 -0.0399 0.0125 0.0469 -0.0140 0.0033  
 0.0232 0.0099 -0.0107 0.0517 0.0485 -0.0131 -0.0409 0.0291 -0.0198 -0.0094 -0.0589 0.0301 0.0650 0.0005 0.0108  
  
 Columns 751 through 765  
  
 0.0355 -0.0079 0.0007 0.0145 0.0097 -0.0014 -0.0145 -0.0273 0.0006 -0.0082 -0.0038 -0.0090 0.0253 0.0277 0.0106  
 0.0223 0.0138 0.0226 -0.0013 0.0189 0.0151 -0.0051 -0.0060 -0.0245 0.0296 0.0008 0.0009 0.0021 0.0178 0.0284  
 -0.0145 0.0110 0.0347 -0.0377 0.0104 0.0392 -0.0044 0.0214 -0.0313 0.0546 0.0040 0.0146 -0.0270 -0.0120 0.0382  
  
 Columns 766 through 780  
  
 0.0159 0.0542 0.0086 0.0082 0.0264 0.0303 -0.0117 -0.0157 0.0154 -0.0230 0.0128 0.0434 0.0177 0.0001 0.0509  
 0.0126 0.0230 0.0005 -0.0147 0.0250 0.0336 -0.0180 0.0301 -0.0044 -0.0012 -0.0151 -0.0126 -0.0011 0.0236 0.0449  
 0.0054 -0.0138 -0.0086 -0.0219 0.0078 0.0085 -0.0136 0.0368 -0.0206 0.0255 -0.0250 -0.0526 -0.0006 0.0400 0.0066  
  
 Columns 781 through 795  
  
 -0.0387 0.0143 -0.0020 -0.0007 0.0005 -0.0320 -0.0325 0.0092 0.0159 0.0387 0.0354 0.0062 0.0338 0.0219 -0.0037  
 0.0099 0.0257 0.0086 -0.0455 -0.0138 -0.0057 0.0088 -0.0084 -0.0046 0.0203 0.0177 0.0178 -0.0259 -0.0324 0.0147  
 0.0477 0.0198 -0.0080 -0.0398 -0.0247 0.0135 0.0356 0.0005 -0.0047 -0.0141 0.0023 0.0182 -0.0662 -0.0537 0.0177  
  
 Columns 796 through 810  
  
 0.0238 0.0288 -0.0042 -0.0208 0.0167 -0.0435 0.0018 0.0178 0.0014 -0.0059 -0.0526 -0.0211 0.0205 -0.0300 -0.0078  
 0.0231 0.0463 -0.0291 -0.0440 -0.0107 0.0049 0.0029 0.0307 -0.0270 -0.0178 -0.0119 0.0168 -0.0114 -0.0418 0.0007  
 -0.0018 0.0308 -0.0230 -0.0402 -0.0083 0.0541 0.0164 0.0170 -0.0261 0.0056 0.0246 0.0306 -0.0271 -0.0280 0.0122  
  
 Columns 811 through 825  
  
 -0.0049 -0.0010 0.0011 -0.0122 0.0068 -0.0064 0.0048 -0.0375 -0.0109 -0.0091 -0.0396 -0.0306 -0.0168 0.0235 -0.0419  
 -0.0274 -0.0017 0.0135 -0.0058 -0.0439 -0.0053 -0.0023 0.0261 0.0226 -0.0057 0.0137 -0.0342 -0.0170 0.0337 0.0154  
 -0.0168 -0.0028 0.0091 -0.0038 -0.0560 0.0067 -0.0033 0.0529 0.0377 -0.0011 0.0406 -0.0167 -0.0102 0.0153 0.0423  
  
 Columns 826 through 840  
  
 -0.0077 0.0056 -0.0237 -0.0286 0.0178 0.0248 0.0109 0.0304 -0.0241 0.0138 -0.0276 0.0236 0.0100 0.0112 -0.0281  
 0.0045 0.0085 -0.0350 0.0080 0.0034 0.0135 0.0110 0.0372 -0.0382 0.0014 -0.0044 -0.0016 -0.0046 0.0318 -0.0002  
 0.0020 0.0014 -0.0344 0.0296 0.0058 -0.0094 0.0053 0.0210 -0.0437 -0.0238 0.0028 -0.0085 -0.0225 0.0200 0.0254  
  
 Columns 841 through 855  
  
 0.0182 -0.0105 0.0057 0.0220 -0.0027 0.0049 -0.0077 0.0156 -0.0046 0.0260 0.0324 0.0244 -0.0021 -0.0097 -0.0342  
 -0.0122 0.0085 0.0035 0.0069 -0.0046 -0.0141 0.0185 0.0542 0.0021 0.0394 -0.0191 0.0052 0.0097 -0.0015 -0.0447  
 -0.0363 0.0183 0.0070 -0.0172 -0.0038 -0.0328 0.0354 0.0654 -0.0002 0.0195 -0.0296 -0.0048 0.0167 0.0237 -0.0294  
  
 Columns 856 through 870  
  
 0.0098 0.0553 0.0058 -0.0191 0.0126 -0.0088 -0.0272 -0.0374 -0.0003 -0.0404 -0.0053 -0.0194 -0.0077 0.0148 -0.0174  
 0.0133 0.0297 -0.0032 -0.0039 -0.0264 -0.0190 0.0004 -0.0185 0.0099 0.0432 -0.0036 0.0080 -0.0174 0.0319 -0.0330  
 0.0044 -0.0083 -0.0180 0.0032 -0.0478 -0.0191 0.0301 0.0142 0.0135 0.0789 0.0079 0.0223 -0.0062 0.0220 -0.0291  
  
 Columns 871 through 885  
  
 -0.0028 -0.0210 0.0637 0.0278 -0.0094 -0.0072 0.0076 -0.0165 -0.0108 0.0354 -0.0144 0.0347 0.0161 0.0009 -0.0488  
 0.0119 -0.0096 0.0222 0.0108 0.0177 0.0656 -0.0008 -0.0069 0.0674 -0.0068 0.0051 -0.0250 0.0396 0.0095 -0.0102  
 0.0223 0.0143 -0.0296 -0.0064 0.0456 0.0787 0.0036 0.0037 0.0913 -0.0259 0.0134 -0.0629 0.0423 0.0114 0.0152  
  
 Columns 886 through 900  
  
 0.0390 -0.0172 -0.0006 0.0111 -0.0006 0.0168 0.0030 -0.0134 0.0130 0.0249 0.0117 0.0212 0.0035 -0.0331 -0.0007  
 0.0185 -0.0013 0.0485 -0.0492 -0.0274 0.0262 -0.0138 -0.0294 -0.0306 -0.0170 -0.0058 -0.0122 -0.0150 -0.0101 -0.0258  
 0.0037 0.0097 0.0677 -0.0634 -0.0211 0.0272 -0.0173 -0.0395 -0.0440 -0.0406 -0.0151 -0.0310 -0.0159 0.0215 -0.0317  
  
 Columns 901 through 915  
  
 -0.0349 0.0043 -0.0355 -0.0130 0.0104 -0.0017 0.0359 -0.0275 0.0084 0.0106 0.0227 0.0075 0.0373 -0.0096 0.0058  
 0.0118 -0.0059 0.0285 -0.0207 -0.0210 -0.0172 0.0303 0.0349 -0.0171 0.0139 0.0282 -0.0205 -0.0034 -0.0309 -0.0042  
 0.0314 0.0040 0.0558 -0.0209 -0.0230 -0.0203 0.0057 0.0759 -0.0459 0.0114 0.0208 -0.0190 -0.0322 -0.0152 -0.0051  
  
 Columns 916 through 930  
  
 0.0177 -0.0266 0.0006 -0.0443 -0.0134 0.0107 0.0213 -0.0373 0.0042 -0.0085 0.0097 -0.0025 -0.0376 -0.0005 0.0304  
 0.0323 0.0166 0.0605 -0.0063 -0.0305 0.0338 0.0421 -0.0240 0.0003 0.0058 0.0084 0.0200 -0.0182 -0.0136 0.0220  
 0.0277 0.0453 0.0741 0.0284 -0.0040 0.0228 0.0370 0.0012 -0.0081 0.0042 -0.0007 0.0284 0.0035 -0.0259 0.0119  
  
 Columns 931 through 945  
  
 -0.0122 -0.0306 -0.0365 0.0164 0.0073 -0.0092 0.0096 0.0288 0.0100 -0.0135 -0.0246 -0.0224 0.0186 0.0141 -0.0122  
 -0.0089 0.0327 -0.0172 0.0026 -0.0114 -0.0246 0.0092 0.0131 -0.0012 0.0231 0.0078 -0.0370 -0.0086 -0.0083 -0.0074  
 0.0103 0.0672 0.0020 -0.0251 -0.0128 -0.0183 0.0107 0.0024 -0.0366 0.0474 0.0292 -0.0225 -0.0162 -0.0348 0.0043  
  
 Columns 946 through 960  
  
 0.0250 0.0209 -0.0178 -0.0272 0.0253 -0.0032 0.0171 0.0209 -0.0094 0.0308 -0.0188 0.0011 0.0120 -0.0057 -0.0394  
 0.0337 0.0432 -0.0044 0.0099 0.0469 0.0106 0.0366 0.0266 -0.0091 0.0226 0.0232 0.0029 0.0039 -0.0051 -0.0274  
 0.0163 0.0383 0.0208 0.0293 0.0403 0.0180 0.0232 0.0107 -0.0131 -0.0034 0.0613 0.0130 -0.0115 -0.0052 -0.0080  
  
 Columns 961 through 975  
  
 0.0119 -0.0014 -0.0247 -0.0227 -0.0139 -0.0024 -0.0025 0.0065 -0.0005 0.0003 0.0140 0.0309 0.0034 0.0225 -0.0004  
 0.0442 -0.0016 0.0462 0.0011 0.0151 0.0323 0.0634 0.0131 -0.0255 0.0032 -0.0286 0.0083 0.0092 0.0206 0.0261  
 0.0407 -0.0062 0.0619 0.0309 0.0326 0.0350 0.0741 0.0136 -0.0345 -0.0100 -0.0444 -0.0088 0.0094 -0.0114 0.0235  
  
 Columns 976 through 990  
  
 0.0070 0.0009 0.0035 -0.0062 -0.0293 0.0316 0.0006 0.0128 0.0084 0.0022 0.0088 -0.0015 -0.0120 -0.0002 -0.0027  
 -0.0241 0.0142 -0.0216 0.0101 0.0291 0.0008 -0.0206 -0.0124 0.0136 0.0253 0.0331 -0.0056 0.0114 -0.0101 0.0198  
 -0.0546 0.0087 -0.0401 0.0130 0.0487 -0.0330 -0.0357 -0.0276 0.0043 0.0214 0.0143 -0.0108 0.0314 -0.0072 0.0097  
  
 Columns 991 through 1,005  
  
 -0.0111 -0.0075 0.0368 0.0271 -0.0529 0.0101 -0.0112 -0.0198 0.0385 -0.0176 0.0047 -0.0021 0.0062 -0.0065 0.0206  
 -0.0065 -0.0061 0.0451 0.0400 0.0017 -0.0091 0.0011 0.0225 -0.0079 -0.0050 -0.0097 0.0135 -0.0021 0.0113 0.0438

-0.0003 0.0048 0.0093 0.0365 0.0417 -0.0079 0.0046 0.0543 -0.0322 0.0122 -0.0159 0.0185 0.0101 0.0071 0.0310  
  
 Columns 1,006 through 1,020  
  
 -0.0196 0.0052 -0.0076 -0.0193 -0.0367 0.0195 0.0084 0.0001 -0.0308 0.0178 -0.0055 -0.0408 0.0001 -0.0184 -0.0051  
 -0.0128 0.0026 0.0048 0.0171 -0.0079 0.0225 -0.0210 0.0040 0.0080 0.0393 0.0160 -0.0366 0.0073 -0.0136 -0.0123  
 0.0002 0.0001 0.0070 0.0291 0.0103 0.0175 -0.0406 0.0126 0.0344 0.0268 0.0261 -0.0081 0.0059 -0.0069 -0.0145  
  
 Columns 1,021 through 1,035  
  
 0.0204 0.0092 0.0143 -0.0161 -0.0395 0.0096 -0.0194 0.0159 0.0146 -0.0371 0.0208 0.0290 -0.0429 -0.0129 0.0038  
 -0.0027 -0.0248 -0.0171 -0.0354 -0.0106 0.0167 0.0169 -0.0066 0.0014 -0.0015 0.0027 0.0286 0.0099 0.0012 0.0206  
 -0.0213 -0.0409 -0.0419 -0.0388 0.0258 0.0214 0.0498 -0.0247 -0.0086 0.0335 -0.0248 0.0023 0.0502 0.0210 0.0254  
  
 Columns 1,036 through 1,050  
  
 -0.0040 -0.0290 -0.0249 -0.0108 -0.0258 -0.0210 0.0115 0.0369 -0.0334 0.0256 0.0566 0.0005 -0.0031 0.0207 -0.0013  
 -0.0076 -0.0425 -0.0593 -0.0303 -0.0016 -0.0076 0.0018 0.0105 -0.0191 -0.0074 0.0187 0.0240 0.0492 0.0149 0.0029  
 -0.0064 -0.0200 -0.0462 -0.0152 0.0273 0.0183 0.0066 -0.0168 0.0085 -0.0276 -0.0316 0.0317 0.0522 0.0030 0.0059  
  
 Columns 1,051 through 1,065  
  
 -0.0326 0.0040 -0.0065 -0.0152 0.0374 0.0273 0.0244 0.0242 -0.0250 -0.0260 -0.0322 0.0244 0.0093 -0.0212 -0.0072  
 -0.0163 0.0070 -0.0133 -0.0486 -0.0012 0.0124 -0.0087 0.0111 0.0396 0.0074 0.0035 -0.0272 -0.0169 0.0131 0.0090  
 0.0117 0.0140 -0.0191 -0.0465 -0.0347 -0.0176 -0.0303 -0.0119 0.0841 0.0189 0.0234 -0.0330 -0.0317 0.0292 0.0173  
  
 Columns 1,066 through 1,080  
  
 0.0141 0.0287 -0.0414 -0.0570 0.0246 -0.0306 0.0058 0.0110 0.0295 0.0251 0.0106 0.0223 0.0067 0.0256 0.0043  
 0.0056 0.0014 0.0235 -0.0131 -0.0123 -0.0091 -0.0043 0.0167 0.0169 0.0269 0.0169 -0.0140 0.0103 -0.0010 -0.0274  
 -0.0029 -0.0347 0.0657 0.0277 -0.0339 0.0161 -0.0103 0.0042 -0.0041 0.0177 0.0203 -0.0429 0.0126 -0.0320 -0.0309  
  
 Columns 1,081 through 1,095  
  
 0.0023 -0.0277 0.0094 0.0087 -0.0121 0.0089 0.0224 0.0451 0.0099 -0.0180 -0.0164 0.0155 -0.0345 0.0063 -0.0152  
 -0.0133 0.0164 -0.0070 0.0359 0.0079 -0.0038 0.0076 0.0039 0.0069 0.0203 -0.0138 0.0014 0.0203 0.0224 0.0164  
 -0.0327 0.0417 -0.0211 0.0314 0.0165 -0.0080 -0.0040 -0.0317 -0.0011 0.0433 -0.0054 -0.0219 0.0396 0.0196 0.0313  
  
 Columns 1,096 through 1,110  
  
 -0.0075 0.0474 0.0141 -0.0463 0.0115 0.0147 -0.0085 -0.0045 -0.0054 -0.0028 0.0254 0.0121 0.0182 0.0132 -0.0313  
 -0.0209 -0.0102 -0.0025 -0.0161 -0.0253 -0.0283 0.0178 -0.0083 0.0220 -0.0416 0.0090 -0.0017 -0.0097 0.0252 -0.0087  
 -0.0179 -0.0569 -0.0240 0.0161 -0.0291 -0.0407 0.0233 0.0033 0.0073 -0.0354 -0.0166 -0.0155 -0.0223 0.0290 0.0299  
  
 Columns 1,111 through 1,125  
  
 -0.0002 0.0053 0.0378 0.0165 -0.0319 -0.0135 0.0270 -0.0202 0.0221 0.0073 0.0168 -0.0039 0.0104 0.0144 0.0047  
 0.0293 -0.0117 -0.0293 -0.0484 -0.0075 0.0202 0.0087 0.0078 0.0190 -0.0216 0.0315 -0.0222 -0.0026 -0.0079 -0.0073  
 0.0413 -0.0301 -0.0631 -0.0642 0.0227 0.0307 -0.0132 0.0347 0.0019 -0.0224 0.0173 -0.0225 -0.0165 -0.0229 -0.0222  
  
 Columns 1,126 through 1,140  
  
 -0.0436 0.0430 -0.0196 0.0060 -0.0105 -0.0259 0.0247 -0.0154 0.0065 0.0180 0.0007 -0.0008 -0.0198 0.0111 0.0026  
 -0.0419 0.0333 0.0121 0.0373 0.0293 -0.0048 -0.0239 -0.0356 0.0017 0.0017 0.0212 -0.0219 0.0025 0.0206 -0.0192  
 -0.0009 -0.0071 0.0328 0.0280 0.0404 0.0160 -0.0535 -0.0207 -0.0034 -0.0191 0.0206 -0.0237 0.0087 0.0288 -0.0253  
  
 Columns 1,141 through 1,155  
  
 -0.0110 -0.0032 -0.0201 -0.0266 0.0145 0.0094 -0.0229 -0.0554 -0.0368 -0.0024 0.0115 -0.0241 0.0272 0.0061 0.0211  
 0.0197 0.0084 0.0009 0.0401 0.0169 0.0016 0.0043 -0.0127 -0.0071 0.0068 0.0036 -0.0077 0.0118 0.0393 -0.0010  
 0.0348 0.0146 0.0266 0.0688 0.0070 -0.0040 0.0259 0.0282 0.0191 0.0067 0.0079 0.0247 -0.0108 0.0343 -0.0170  
  
 Columns 1,156 through 1,170  
  
 -0.0261 0.0320 -0.0099 -0.0071 -0.0025 0.0038 0.0232 0.0195 -0.0016 0.0364 0.0327 -0.0065 -0.0161 -0.0323 0.0080  
 -0.0184 0.0020 -0.0302 -0.0125 0.0137 -0.0069 -0.0093 0.0038 -0.0349 -0.0049 -0.0229 -0.0128 -0.0240 -0.0359 0.0019  
 0.0098 -0.0232 -0.0407 -0.0113 0.0204 -0.0149 -0.0298 -0.0029 -0.0415 -0.0288 -0.0499 -0.0087 -0.0100 -0.0251 0.0019  
  
 Columns 1,171 through 1,185  
  
 0.0274 0.0419 0.0092 0.0076 -0.0037 -0.0199 -0.0112 -0.0053 -0.0049 0.0240 -0.0043 0.0152 0.0192 0.0076 -0.0102  
 -0.0095 0.0080 -0.0043 -0.0244 0.0128 -0.0471 -0.0147 -0.0189 -0.0050 -0.0310 -0.0003 -0.0217 -0.0146 -0.0493 0.0137  
 -0.0221 -0.0254 -0.0246 -0.0370 0.0068 -0.0422 -0.0103 -0.0023 0.0019 -0.0593 0.0154 -0.0436 -0.0243 -0.0644 0.0262  
  
 Columns 1,186 through 1,200  
  
 0.0434 -0.0186 0.0266 0.0305 0.0342 0.0126 0.0286 0.0333 -0.0230 -0.0097 0.0214 -0.0326 -0.0040 -0.0064 -0.0035  
 0.0479 0.0380 0.0012 0.0116 -0.0028 -0.0034 -0.0157 -0.0247 -0.0009 -0.0392 -0.0394 0.0383 0.0026 0.0085 0.0087  
 0.0121 0.0496 -0.0142 -0.0064 -0.0304 -0.0209 -0.0413 -0.0438 0.0219 -0.0440 -0.0618 0.0612 0.0139 0.0153 -0.0033  
  
 Columns 1,201 through 1,215  
  
 -0.0148 0.0275 0.0244 0.0187 -0.0058 -0.0159 -0.0067 0.0464 0.0089 0.0359 -0.0195 -0.0422 0.0096 -0.0384 0.0053  
 -0.0363 0.0219 0.0178 0.0072 -0.0127 -0.0168 0.0253 -0.0120 -0.0174 0.0206 0.0381 -0.0184 -0.0145 -0.0133 0.0375  
 -0.0236 0.0079 0.0010 -0.0059 -0.0228 -0.0071 0.0426 -0.0532 -0.0275 -0.0094 0.0616 0.0132 -0.0284 0.0034 0.0479  
  
 Columns 1,216 through 1,230  
  
 -0.0198 -0.0247 -0.0099 -0.0122 0.0158 -0.0374 0.0220 0.0015 0.0195 -0.0288 -0.0121 -0.0279 -0.0163 0.0257 0.0094  
 0.0070 -0.0013 -0.0082 0.0047 -0.0011 0.0205 -0.0271 0.0022 0.0383 -0.0189 -0.0009 -0.0209 0.0064 -0.0070 0.0194  
 0.0141 0.0166 0.0063 0.0089 -0.0164 0.0505 -0.0478 0.0001 0.0309 0.0011 0.0228 0.0051 0.0347 -0.0357 0.0267  
  
 Columns 1,231 through 1,245  
  
 -0.0007 0.0140 -0.0184 0.0079 0.0159 0.0231 0.0202 0.0129 0.0186 -0.0067 0.0120 0.0301 0.0234 -0.0197 -0.0281  
 -0.0184 0.0029 -0.0269 -0.0059 -0.0260 0.0011 0.0729 0.0636 0.0391 0.0132 -0.0337 -0.0131 -0.0104 0.0033 -0.0009  
 -0.0183 -0.0098 -0.0233 -0.0123 -0.0510 -0.0152 0.0534 0.0455 0.0364 0.0172 -0.0536 -0.0444 -0.0317 0.0155 0.0164  
  
 Columns 1,246 through 1,260  
  
 0.0145 -0.0082 0.0007 0.0155 -0.0028 0.0388 0.0399 0.0072 0.0533 -0.0018 0.0321 0.0387 0.0144 0.0074 -0.0030  
 -0.0120 -0.0081 -0.0273 -0.0033 0.0259 0.0193 0.0157 0.0127 0.0182 -0.0510 0.0053 -0.0060 -0.0447 -0.0188 -0.0160  
 -0.0408 -0.0011 -0.0365 -0.0221 0.0316 -0.0088 -0.0122 0.0049 -0.0287 -0.0675 -0.0219 -0.0421 -0.0627 -0.0181 -0.0225  
  
 Columns 1,261 through 1,275  
  
 -0.0391 -0.0003 -0.0002 -0.0070 -0.0114 0.0066 0.0005 0.0238 0.0062 0.0150 -0.0474 -0.0019 0.0333 0.0206 0.0150  
 0.0218 -0.0086 -0.0130 -0.0110 -0.0427 -0.0107 -0.0213 0.0236 0.0336 0.0008 0.0190 0.0309 -0.0193 -0.0094 0.0057  
 0.0660 -0.0122 -0.0311 0.0031 -0.0304 -0.0299 -0.0238 -0.0003 0.0260 -0.0058 0.0613 0.0444 -0.0433 -0.0387 -0.0089  
  
 Columns 1,276 through 1,290  
  
 -0.0071 -0.0456 0.0116 0.0016 0.0184 -0.0010 -0.0082 -0.0171 -0.0046 0.0229 -0.0039 -0.0296 0.0043 0.0094 -0.0406  
 0.0103 0.0057 0.0127 0.0116 -0.0201 0.0309 -0.0419 -0.0231 0.0344 -0.0326 0.0253 -0.0005 -0.0262 -0.0194 -0.0287  
 0.0171 0.0433 0.0001 0.0080 -0.0523 0.0551 -0.0301 -0.0054 0.0491 -0.0748 0.0478 -0.0019 -0.0387 -0.0288 -0.0068  
  
 Columns 1,291 through 1,305  
  
 -0.0458 -0.0068 -0.0355 0.0155 0.0319 0.0154 0.0196 0.0083 0.0152 0.0226 0.0098 -0.0137 -0.0046 0.0358 0.0063  
 0.0015 0.0095 -0.0188 -0.0273 -0.0064 0.0029 -0.0131 -0.0194 -0.0147 0.0034 -0.0526 -0.0131 0.0111 0.0026 -0.0003  
 0.0398 0.0299 0.0177 -0.0383 -0.0373 -0.0050 -0.0350 -0.0418 -0.0223 -0.0269 -0.0709 -0.0154 0.0133 -0.0134 -0.0057  
  
 Columns 1,306 through 1,320  
  
 -0.0109 0.0027 -0.0143 0.0242 -0.0217 -0.0282 -0.0041 0.0084 -0.0100 0.0159 -0.0196 0.0396 0.0396 0.0163 0.0408  
 -0.0057 -0.0170 -0.0005 0.0142 -0.0316 0.0190 0.0517 0.0043 0.0004 -0.0274 -0.0001 -0.0187 0.0370 0.0084 0.0092  
 -0.0063 -0.0243 0.0136 -0.0041 -0.0224 0.0493 0.0854 -0.0063 0.0105 -0.0472 0.0094 -0.0524 0.0022 -0.0102 -0.0278  
  
 Columns 1,321 through 1,335  
  
 -0.0150 -0.0068 -0.0176 -0.0247 0.0019 0.0269 -0.0208 -0.0075 0.0165 -0.0011 -0.0117 -0.0082 0.0113 -0.0001 0.0083  
 -0.0129 -0.0494 -0.0218 -0.0111 0.0638 0.0219 0.0029 -0.0190 0.0057 0.0413 -0.0018 0.0263 -0.0078 -0.0153 -0.0077  
 -0.0028 -0.0480 -0.0019 -0.0049 0.0769 0.0020 0.0204 -0.0195 -0.0075 0.0643 0.0132 0.0225 -0.0022 -0.0228 -0.0248  
  
 Columns 1,336 through 1,350  
  
 -0.0068 0.0019 0.0046 -0.0141 -0.0039 0.0113 -0.0305 0.0411 0.0243 0.0513 -0.0423 -0.0069 -0.0301 0.0115 0.0147  
 -0.0421 0.0079 -0.0016 -0.0051 0.0026 0.0258 0.0194 -0.0142 0.0079 0.0328 -0.0266 -0.0331 -0.0057 0.0166 0.0522  
 -0.0379 0.0024 -0.0095 0.0022 -0.0071 0.0192 0.0530 -0.0601 -0.0075 0.0072 0.0145 -0.0382 0.0273 0.0202 0.0534  
  
 Columns 1,351 through 1,365  
  
 0.0276 0.0199 -0.0189 0.0327 -0.0406 0.0189 -0.0262 0.0038 0.0062 0.0244 0.0274 0.0031 0.0218 -0.0312 0.0240  
 0.0200 -0.0107 -0.0330 0.0511 0.0564 -0.0007 -0.0078 -0.0162 0.0190 0.0094 0.0359 -0.0289 -0.0006 -0.0136 0.0334  
 -0.0038 -0.0324 -0.0345 0.0385 0.0981 -0.0238 0.0202 -0.0077 0.0122 -0.0114 0.0209 -0.0426 -0.0278 0.0171 0.0170  
  
 Columns 1,366 through 1,380  
  
 0.0217 -0.0131 0.0118 0.0207 0.0048 0.0071 -0.0162 0.0094 -0.0187 0.0154 0.0004 -0.0048 0.0490 -0.0018 0.0120  
 -0.0141 -0.0145 0.0052 0.0129 0.0039 -0.0083 -0.0031 -0.0188 0.0101 -0.0105 -0.0409 -0.0399 -0.0006 0.0168 0.0029  
 -0.0386 -0.0142 0.0056 -0.0150 -0.0057 -0.0034 0.0229 -0.0259 0.0287 -0.0432 -0.0491 -0.0364 -0.0493 0.0213 -0.0097  
  
 Columns 1,381 through 1,395  
  
 0.0205 -0.0235 -0.0155 0.0137 -0.0023 0.0335 0.0230 -0.0407 -0.0460 -0.0044 0.0051 0.0106 0.0173 0.0010 -0.0037  
 -0.0331 -0.0312 0.0080 -0.0044 -0.0176 0.0310 -0.0144 -0.0104 0.0029 0.0275 -0.0270 0.0247 0.0620 -0.0438 0.0250  
 -0.0555 -0.0075 0.0139 -0.0196 -0.0250 0.0019 -0.0356 0.0172 0.0434 0.0428 -0.0419 0.0317 0.0511 -0.0580 0.0449  
  
 Columns 1,396 through 1,410  
  
 -0.0601 0.0035 -0.0150 0.0186 0.0248 -0.0014 -0.0229 0.0086 -0.0066 -0.0294 0.0200 0.0234 0.0098 0.0253 0.0085  
 -0.0246 -0.0076 -0.0120 0.0146 0.0662 -0.0243 0.0148 -0.0118 0.0339 -0.0062 0.0086 0.0172 0.0052 0.0332 -0.0062  
 0.0157 -0.0021 0.0078 0.0006 0.0608 -0.0311 0.0416 -0.0208 0.0344 0.0060 -0.0001 -0.0015 0.0008 0.0187 -0.0172  
  
 Columns 1,411 through 1,425  
  
 -0.0141 0.0097 -0.0143 0.0417 -0.0108 0.0286 -0.0100 0.0112 -0.0150 -0.0097 -0.0037 0.0081 -0.0149 -0.0215 0.0101  
 -0.0191 0.0125 0.0339 -0.0100 -0.0177 0.0239 -0.0491 0.0002 0.0068 0.0114 -0.0279 0.0112 0.0043 0.0106 0.0245  
 -0.0015 0.0102 0.0504 -0.0374 -0.0197 -0.0012 -0.0493 -0.0235 0.0132 0.0281 -0.0365 0.0146 0.0216 0.0238 0.0254  
  
 Columns 1,426 through 1,440  
  
 0.0276 0.0052 0.0433 0.0067 -0.0010 -0.0150 -0.0345 0.0084 -0.0089 -0.0057 0.0308 0.0014 0.0128 0.0134 0.0216  
 -0.0128 0.0290 0.0022 -0.0173 0.0079 0.0119 0.0184 0.0225 0.0068 0.0468 -0.0218 -0.0064 -0.0004 -0.0034 0.0389  
 -0.0462 0.0199 -0.0380 -0.0249 0.0257 0.0215 0.0674 0.0186 0.0210 0.0490 -0.0408 -0.0057 -0.0119 -0.0220 0.0267  
  
 Columns 1,441 through 1,455  
  
 -0.0096 -0.0612 0.0173 0.0198 0.0124 -0.0069 -0.0386 0.0599 0.0418 -0.0004 -0.0276 0.0507 -0.0170 -0.0427 -0.0191  
 -0.0092 -0.0103 0.0080 0.0211 -0.0161 0.0022 -0.0471 0.0349 -0.0267 -0.0153 -0.0018 -0.0208 -0.0215 -0.0482 -0.0607  
 -0.0132 0.0431 -0.0026 0.0071 -0.0307 0.0021 -0.0240 0.0115 -0.0763 -0.0171 0.0183 -0.0695 -0.0059 -0.0229 -0.0572  
  
 Columns 1,456 through 1,470  
  
 0.0337 0.0149 -0.0159 -0.0111 -0.0075 -0.0028 -0.0144 0.0304 -0.0152 0.0377 0.0223 -0.0007 -0.0246 0.0161 0.0098  
 -0.0089 0.0388 -0.0082 0.0010 -0.0144 0.0441 0.0032 0.0324 0.0130 -0.0031 0.0453 0.0257 -0.0047 0.0226 0.0495  
 -0.0484 0.0392 0.0032 0.0178 -0.0001 0.0588 0.0259 0.0082 0.0339 -0.0385 0.0464 0.0323 0.0174 0.0029 0.0532  
  
 Columns 1,471 through 1,485  
  
 -0.0189 -0.0134 -0.0172 -0.0086 0.0079 -0.0187 -0.0186 -0.0277 -0.0014 0.0026 -0.0231 0.0069 -0.0067 -0.0010 -0.0450  
 0.0067 -0.0106 0.0062 -0.0021 0.0122 -0.0035 0.0081 0.0154 -0.0070 0.0068 -0.0274 -0.0383 -0.0249 -0.0166 -0.0168  
 0.0336 -0.0027 0.0214 -0.0027 0.0002 0.0168 0.0203 0.0374 -0.0161 0.0079 -0.0063 -0.0598 -0.0134 -0.0071 0.0145  
  
 Columns 1,486 through 1,500  
  
 -0.0495 -0.0336 -0.0068 0.0347 0.0340 -0.0019 0.0287 0.0135 -0.0100 -0.0047 0.0404 0.0037 0.0154 0.0012 -0.0097  
 -0.0424 0.0383 -0.0146 -0.0402 -0.0164 0.0105 -0.0166 -0.0174 0.0083 -0.0101 0.0116 -0.0161 -0.0178 -0.0430 0.0159  
 -0.0027 0.0647 -0.0373 -0.0732 -0.0435 0.0251 -0.0273 -0.0390 0.0045 -0.0122 -0.0159 -0.0155 -0.0398 -0.0599 0.0341

Columns 1,501 through 1,515  
  
 0.0082 0.0028 -0.0265 -0.0251 -0.0042 -0.0148 0.0295 0.0056 -0.0147 -0.0069 0.0193 -0.0461 0.0253 0.0030 0.0235  
 -0.0118 0.0046 0.0288 0.0174 0.0039 -0.0187 -0.0136 -0.0058 0.0206 -0.0125 0.0049 0.0081 0.0308 -0.0392 0.0176  
 -0.0226 -0.0095 0.0591 0.0381 0.0126 -0.0124 -0.0319 -0.0195 0.0364 -0.0113 -0.0060 0.0499 0.0190 -0.0527 0.0076  
  
 Columns 1,516 through 1,530  
  
 0.0508 -0.0069 -0.0319 -0.0077 0.0421 0.0345 -0.0215 0.0201 -0.0298 0.0211 0.0002 0.0199 0.0195 0.0097 -0.0307  
 0.0066 0.0006 0.0075 -0.0042 0.0011 0.0150 0.0053 0.0028 0.0096 -0.0325 -0.0107 -0.0617 0.0192 -0.0240 -0.0105  
 -0.0415 0.0112 0.0288 0.0066 -0.0231 -0.0101 0.0229 -0.0101 0.0329 -0.0554 0.0001 -0.0811 0.0085 -0.0377 0.0147  
  
 Columns 1,531 through 1,545  
  
 -0.0030 -0.0091 -0.0260 0.0241 0.0315 -0.0180 -0.0103 -0.0167 0.0168 -0.0190 -0.0145 0.0280 0.0029 -0.0203 -0.0223  
 0.0336 -0.0042 -0.0090 -0.0124 -0.0080 0.0030 -0.0398 -0.0167 0.0140 -0.0335 0.0091 0.0151 -0.0159 -0.0263 -0.0154  
 0.0498 -0.0003 0.0170 -0.0317 -0.0426 0.0118 -0.0385 -0.0153 -0.0047 -0.0192 0.0192 -0.0115 -0.0167 -0.0019 -0.0173  
  
 Columns 1,546 through 1,560  
  
 -0.0498 0.0009 0.0211 0.0364 0.0004 -0.0207 -0.0279 0.0189 0.0152 -0.0018 -0.0108 -0.0059 -0.0327 0.0072 0.0093  
 0.0074 0.0141 0.0316 -0.0133 0.0127 -0.0203 -0.0012 -0.0289 0.0332 0.0033 0.0163 0.0333 -0.0259 0.0346 -0.0023  
 0.0482 0.0155 0.0266 -0.0392 0.0131 -0.0083 0.0368 -0.0453 0.0290 0.0048 0.0231 0.0420 0.0040 0.0489 -0.0136  
  
 Columns 1,561 through 1,575  
  
 -0.0535 -0.0009 -0.0077 -0.0474 -0.0166 0.0315 0.0023 0.0057 0.0156 -0.0051 0.0268 -0.0056 -0.0145 -0.0007 0.0173  
 0.0135 0.0104 0.0175 -0.0339 0.0123 0.0165 0.0627 0.0149 0.0597 0.0002 0.0054 0.0144 -0.0167 0.0205 0.0052  
 0.0619 -0.0007 0.0260 -0.0038 0.0438 -0.0038 0.0593 -0.0007 0.0569 -0.0030 -0.0203 0.0221 -0.0082 0.0166 -0.0038  
  
 Columns 1,576 through 1,590  
  
 0.0091 0.0566 0.0268 -0.0000 -0.0158 -0.0052 0.0205 -0.0044 -0.0148 -0.0175 -0.0100 -0.0115 -0.0086 -0.0051 -0.0294  
 -0.0255 0.0295 -0.0286 -0.0557 -0.0069 -0.0200 -0.0063 0.0041 -0.0196 -0.0048 -0.0053 -0.0332 -0.0209 -0.0470 -0.0157  
 -0.0323 -0.0152 -0.0523 -0.0741 -0.0039 -0.0155 -0.0148 0.0159 -0.0145 0.0124 -0.0061 -0.0313 -0.0083 -0.0464 0.0059  
  
 Columns 1,591 through 1,605  
  
 -0.0007 0.0146 -0.0006 -0.0012 0.0211 -0.0005 0.0582 0.0149 -0.0532 -0.0187 0.0067 0.0050 -0.0010 0.0198 -0.0139  
 0.0002 0.0097 0.0065 0.0185 0.0242 0.0357 -0.0043 -0.0164 -0.0086 0.0013 0.0374 0.0125 -0.0108 -0.0026 0.0078  
 -0.0124 0.0189 0.0035 0.0272 0.0074 0.0518 -0.0528 -0.0303 0.0351 0.0347 0.0388 -0.0078 -0.0226 -0.0164 0.0191  
  
 Columns 1,606 through 1,620  
  
 -0.0480 0.0071 -0.0072 -0.0045 -0.0296 -0.0135 -0.0075 0.0094 -0.0099 0.0276 -0.0078 0.0206 -0.0641 -0.0069 0.0099  
 -0.0281 0.0019 -0.0190 -0.0056 0.0184 -0.0041 0.0221 -0.0293 0.0086 -0.0174 0.0092 0.0083 0.0251 0.0204 0.0067  
 0.0051 -0.0009 -0.0200 -0.0088 0.0436 -0.0098 0.0284 -0.0495 0.0235 -0.0425 0.0184 -0.0106 0.0880 0.0254 -0.0097  
  
 Columns 1,621 through 1,635  
  
 0.0207 -0.0128 0.0134 0.0359 -0.0260 -0.0016 0.0180 -0.0266 -0.0005 0.0135 -0.0302 -0.0287 0.0239 0.0061 -0.0110  
 0.0065 0.0033 -0.0278 -0.0047 -0.0411 0.0132 0.0173 0.0045 -0.0042 -0.0051 0.0356 0.0210 -0.0117 0.0141 -0.0180  
 0.0024 0.0290 -0.0275 -0.0362 -0.0249 0.0092 -0.0017 0.0328 -0.0002 -0.0266 0.0689 0.0434 -0.0382 0.0187 -0.0022  
  
 Columns 1,636 through 1,650  
  
 0.0128 -0.0270 -0.0021 -0.0025 0.0164 -0.0222 -0.0012 -0.0223 0.0134 -0.0214 -0.0121 0.0188 0.0019 -0.0070 0.0096  
 0.0056 -0.0038 0.0136 -0.0377 0.0057 -0.0125 0.0009 -0.0072 0.0235 0.0039 -0.0044 0.0379 -0.0026 -0.0161 -0.0217  
 -0.0097 0.0044 0.0112 -0.0421 -0.0152 0.0146 0.0106 -0.0080 0.0275 0.0326 -0.0091 0.0240 0.0055 0.0022 -0.0294  
  
 Columns 1,651 through 1,665  
  
 0.0280 0.0431 0.0538 -0.0340 -0.0141 0.0017 0.0129 -0.0015 0.0109 0.0038 0.0130 0.0443 0.0188 -0.0118 -0.0051  
 -0.0170 -0.0050 0.0426 -0.0452 0.0106 -0.0377 0.0314 -0.0125 -0.0023 -0.0085 -0.0153 0.0166 -0.0052 -0.0101 0.0090  
 -0.0429 -0.0396 0.0198 -0.0143 0.0306 -0.0613 0.0276 -0.0063 -0.0157 -0.0019 -0.0297 -0.0059 -0.0246 0.0023 0.0003  
  
 Columns 1,666 through 1,680  
  
 0.0027 0.0069 0.0058 0.0076 -0.0059 -0.0206 -0.0149 -0.0008 0.0056 0.0022 -0.0006 -0.0094 0.0080 -0.0404 0.0064  
 0.0061 0.0437 -0.0195 0.0183 -0.0352 0.0124 -0.0080 -0.0037 0.0041 0.0103 0.0121 0.0096 0.0151 -0.0309 -0.0364  
 -0.0016 0.0429 -0.0391 0.0074 -0.0220 0.0324 -0.0086 0.0009 -0.0116 0.0006 0.0039 0.0202 0.0101 -0.0078 -0.0570  
  
 Columns 1,681 through 1,695  
  
 -0.0095 -0.0011 0.0186 0.0073 0.0416 -0.0053 0.0142 -0.0289 -0.0186 0.0092 0.0110 0.0091 -0.0100 -0.0467 0.0018  
 -0.0088 -0.0104 0.0383 -0.0063 -0.0116 0.0507 -0.0124 0.0496 0.0219 -0.0054 -0.0029 0.0004 0.0044 0.0016 -0.0332  
 -0.0027 -0.0234 0.0389 -0.0038 -0.0549 0.0465 -0.0264 0.0893 0.0431 -0.0088 -0.0146 -0.0040 0.0093 0.0222 -0.0350  
  
 Columns 1,696 through 1,710  
  
 -0.0336 0.0352 -0.0150 0.0127 0.0184 -0.0095 -0.0178 0.0262 0.0095 -0.0315 0.0127 0.0057 -0.0267 0.0110 0.0195  
 0.0243 0.0450 -0.0028 0.0012 0.0021 0.0195 0.0253 0.0378 -0.0096 -0.0062 0.0214 0.0121 0.0197 -0.0023 0.0098  
 0.0412 0.0390 0.0205 -0.0078 -0.0203 0.0425 0.0441 0.0273 -0.0215 0.0216 0.0153 0.0160 0.0430 -0.0016 -0.0095  
  
 Columns 1,711 through 1,725  
  
 0.0032 -0.0276 0.0229 -0.0114 0.0140 0.0191 0.0155 -0.0073 -0.0104 -0.0126 0.0200 -0.0120 0.0149 -0.0085 -0.0300  
 0.0035 0.0239 -0.0185 0.0116 0.0119 -0.0478 0.0227 0.0678 -0.0084 -0.0013 -0.0193 0.0199 0.0045 -0.0022 0.0298  
 -0.0020 0.0472 -0.0327 0.0346 0.0087 -0.0673 0.0047 0.0862 -0.0017 0.0041 -0.0492 0.0440 0.0019 0.0062 0.0569  
  
 Columns 1,726 through 1,740  
  
 0.0295 -0.0146 0.0231 0.0375 -0.0305 -0.0086 0.0049 0.0360 -0.0287 0.0199 -0.0133 0.0008 -0.0098 -0.0653 -0.0162  
 -0.0111 -0.0176 -0.0052 -0.0040 0.0246 0.0340 -0.0062 0.0027 -0.0110 -0.0037 0.0368 0.0164 0.0091 0.0011 -0.0063  
 -0.0346 -0.0090 -0.0321 -0.0428 0.0506 0.0356 0.0025 -0.0175 -0.0039 -0.0196 0.0465 -0.0010 0.0166 0.0560 0.0105  
  
 Columns 1,741 through 1,755  
  
 0.0111 0.0097 0.0494 -0.0144 -0.0184 -0.0013 0.0317 -0.0095 -0.0150 0.0153 0.0137 0.0120 -0.0026 0.0014 0.0087  
 0.0171 0.0278 0.0217 0.0268 0.0165 0.0198 0.0264 0.0201 -0.0169 0.0147 0.0475 -0.0122 0.0167 0.0096 0.0323  
 0.0076 0.0230 -0.0089 0.0290 0.0379 0.0431 0.0136 0.0275 -0.0107 0.0159 0.0333 -0.0268 0.0168 0.0011 0.0236  
  
 Columns 1,756 through 1,770  
  
 -0.0228 -0.0253 -0.0059 0.0015 -0.0294 0.0118 -0.0018 -0.0247 0.0008 0.0103 0.0069 0.0045 -0.0299 0.0043 0.0328  
 -0.0014 -0.0608 -0.0243 0.0181 0.0010 0.0397 0.0342 -0.0046 -0.0024 -0.0258 0.0442 -0.0080 -0.0315 0.0131 0.0195  
 0.0093 -0.0464 -0.0254 0.0244 0.0261 0.0280 0.0416 0.0055 -0.0074 -0.0305 0.0438 -0.0233 -0.0018 0.0132 0.0040  
  
 Columns 1,771 through 1,785  
  
 0.0124 -0.0223 0.0381 -0.0370 -0.0248 0.0093 0.0262 -0.0204 0.0246 0.0011 0.0208 0.0244 0.0327 0.0127 0.0124  
 -0.0057 0.0170 -0.0122 -0.0537 -0.0431 0.0170 -0.0142 0.0247 -0.0120 0.0027 -0.0221 0.0600 0.0027 0.0301 0.0062  
 -0.0122 0.0464 -0.0482 -0.0432 -0.0259 0.0320 -0.0419 0.0608 -0.0181 0.0086 -0.0346 0.0591 -0.0250 0.0228 -0.0100  
  
 Columns 1,786 through 1,800  
  
 0.0013 -0.0157 -0.0040 -0.0023 -0.0088 0.0685 0.0015 -0.0306 -0.0216 -0.0259 0.0034 -0.0516 -0.0082 -0.0161 -0.0194  
 0.0141 -0.0321 0.0227 0.0463 -0.0486 0.0099 -0.0216 -0.0048 -0.0176 0.0197 0.0005 -0.0196 -0.0072 -0.0280 -0.0118  
 0.0086 -0.0253 0.0239 0.0655 -0.0465 -0.0451 -0.0316 0.0177 0.0036 0.0598 -0.0145 0.0074 -0.0037 -0.0137 -0.0054  
  
 Columns 1,801 through 1,815  
  
 -0.0138 -0.0117 0.0168 0.0504 0.0364 0.0224 0.0101 0.0361 -0.0100 -0.0205 0.0243 0.0103 0.0182 0.0135 -0.0083  
 -0.0157 -0.0330 0.0068 -0.0018 0.0153 0.0112 0.0121 0.0129 -0.0177 -0.0184 -0.0077 0.0359 0.0343 0.0014 -0.0042  
 -0.0069 -0.0284 -0.0021 -0.0497 -0.0097 -0.0199 0.0025 -0.0368 -0.0107 0.0012 -0.0377 0.0335 0.0240 -0.0081 0.0120  
  
 Columns 1,816 through 1,830  
  
 0.0092 0.0125 0.0285 0.0004 0.0070 0.0090 -0.0130 -0.0226 -0.0232 0.0073 -0.0134 -0.0197 0.0184 0.0064 0.0259  
 -0.0261 0.0145 0.0068 -0.0213 0.0061 -0.0258 0.0028 -0.0113 0.0305 -0.0321 0.0080 -0.0075 0.0211 0.0279 0.0294  
 -0.0306 0.0029 -0.0154 -0.0192 0.0120 -0.0237 0.0100 0.0035 0.0513 -0.0440 0.0098 0.0017 0.0222 0.0348 0.0088  
  
 Columns 1,831 through 1,845  
  
 -0.0231 0.0128 -0.0062 -0.0400 0.0144 -0.0161 0.0540 -0.0116 -0.0300 0.0121 0.0071 0.0210 0.0485 0.0199 -0.0052  
 -0.0322 0.0297 -0.0343 -0.0225 -0.0009 0.0049 -0.0175 0.0131 0.0107 -0.0081 0.0138 -0.0177 0.0284 -0.0052 0.0087  
 -0.0196 0.0200 -0.0379 0.0168 -0.0025 0.0111 -0.0674 0.0310 0.0430 -0.0314 0.0093 -0.0327 -0.0121 -0.0326 0.0078  
  
 Columns 1,846 through 1,860  
  
 -0.0041 0.0004 0.0046 0.0267 -0.0220 0.0096 0.0106 -0.0034 0.0041 -0.0144 0.0082 0.0010 -0.0240 0.0036 -0.0239  
 -0.0236 0.0154 0.0154 0.0405 0.0077 -0.0426 -0.0279 0.0113 0.0314 -0.0057 -0.0038 0.0327 0.0022 0.0253 -0.0172  
 -0.0231 0.0293 0.0085 0.0338 0.0391 -0.0574 -0.0442 0.0215 0.0427 -0.0064 -0.0035 0.0189 0.0269 0.0294 -0.0020  
  
 Columns 1,861 through 1,875  
  
 -0.0458 -0.0059 0.0214 -0.0138 0.0039 -0.0035 -0.0119 0.0452 -0.0453 -0.0071 0.0134 -0.0020 -0.0146 0.0162 0.0223  
 -0.0458 0.0223 0.0006 0.0448 -0.0177 -0.0345 0.0242 0.0161 -0.0375 -0.0122 0.0111 0.0187 0.0079 0.0204 0.0217  
 -0.0231 0.0366 -0.0412 0.0666 -0.0285 -0.0325 0.0276 -0.0185 -0.0068 -0.0060 0.0252 0.0159 0.0185 0.0198 0.0162  
  
 Columns 1,876 through 1,890  
  
 -0.0337 0.0022 0.0274 -0.0152 0.0099 -0.0038 0.0146 -0.0112 0.0008 0.0257 0.0270 -0.0174 -0.0073 0.0096 0.0289  
 -0.0289 0.0210 0.0124 -0.0090 -0.0094 -0.0182 -0.0144 0.0263 0.0319 0.0534 0.0307 -0.0221 -0.0069 -0.0206 -0.0268  
 -0.0074 0.0197 -0.0097 0.0025 -0.0249 -0.0306 -0.0255 0.0488 0.0347 0.0310 0.0241 -0.0101 -0.0105 -0.0304 -0.0700  
  
 Columns 1,891 through 1,905  
  
 0.0190 0.0163 0.0289 -0.0128 -0.0010 -0.0003 0.0218 -0.0172 0.0340 -0.0083 0.0206 -0.0030 -0.0022 -0.0045 -0.0690  
 -0.0185 -0.0009 0.0001 -0.0450 0.0021 0.0020 0.0238 -0.0006 0.0124 0.0428 0.0156 -0.0120 0.0463 -0.0454 -0.0153  
 -0.0426 -0.0011 -0.0364 -0.0547 -0.0082 -0.0119 0.0048 0.0164 -0.0218 0.0574 0.0096 -0.0175 0.0591 -0.0355 0.0477  
  
 Columns 1,906 through 1,920  
  
 0.0353 -0.0002 -0.0036 -0.0239 -0.0181 -0.0176 0.0498 -0.0234 -0.0161 -0.0243 0.0269 0.0026 -0.0083 0.0405 -0.0249  
 0.0562 0.0062 0.0071 -0.0349 0.0022 -0.0477 -0.0225 0.0040 -0.0085 0.0072 0.0227 0.0177 -0.0359 0.0153 -0.0238  
 0.0280 0.0221 0.0292 -0.0211 0.0063 -0.0351 -0.0786 0.0200 -0.0010 0.0261 0.0160 0.0190 -0.0376 -0.0145 0.0089  
  
 Columns 1,921 through 1,935  
  
 0.0470 0.0001 0.0107 -0.0200 -0.0108 0.0359 -0.0499 0.0217 0.0215 0.0172 -0.0191 0.0080 0.0636 -0.0259 0.0050  
 0.0215 -0.0053 0.0088 -0.0159 -0.0026 0.0134 -0.0621 -0.0313 -0.0447 0.0188 0.0013 -0.0133 0.0378 0.0061 -0.0340  
 -0.0198 -0.0044 -0.0063 -0.0009 -0.0011 -0.0304 -0.0344 -0.0465 -0.0738 0.0032 0.0134 -0.0204 -0.0184 0.0353 -0.0408  
  
 Columns 1,936 through 1,950  
  
 -0.0384 -0.0233 -0.0071 -0.0099 -0.0414 0.0301 0.0322 0.0207 0.0312 0.0341 -0.0290 -0.0061 -0.0144 -0.0111 -0.0478  
 -0.0390 -0.0294 0.0215 -0.0202 -0.0363 -0.0106 0.0020 0.0120 0.0314 0.0103 0.0061 -0.0018 -0.0228 0.0120 -0.0304  
 -0.0190 -0.0075 0.0308 -0.0182 -0.0075 -0.0395 -0.0112 -0.0139 0.0219 -0.0197 0.0328 0.0016 -0.0120 0.0241 0.0036  
  
 Columns 1,951 through 1,965  
  
 0.0048 0.0152 0.0212 -0.0118 0.0009 -0.0084 -0.0080 -0.0134 0.0483 -0.0245 -0.0107 0.0173 -0.0318 -0.0221 0.0301  
 -0.0302 -0.0346 0.0162 0.0191 -0.0312 -0.0058 0.0016 -0.0318 0.0290 -0.0154 0.0186 -0.0179 0.0023 0.0228 0.0227  
 -0.0435 -0.0626 -0.0063 0.0302 -0.0278 -0.0002 0.0061 -0.0378 -0.0057 -0.0114 0.0510 -0.0418 0.0227 0.0506 0.0057  
  
 Columns 1,966 through 1,980  
  
 0.0103 -0.0006 -0.0227 -0.0296 -0.0035 -0.0031 0.0116 0.0047 0.0297 0.0004 -0.0450 -0.0363 0.0364 -0.0167 0.0194  
 0.0050 0.0233 -0.0188 -0.0046 0.0273 -0.0042 -0.0165 0.0479 -0.0110 0.0200 -0.0148 -0.0077 0.0158 0.0096 -0.0075  
 0.0044 0.0286 0.0033 0.0175 0.0299 -0.0014 -0.0274 0.0517 -0.0466 0.0306 0.0317 0.0150 -0.0143 0.0358 -0.0411  
  
 Columns 1,981 through 1,995  
  
 -0.0273 0.0076 0.0229 0.0220 -0.0105 -0.0312 0.0142 0.0057 0.0092 -0.0151 -0.0195 0.0018 -0.0370 0.0158 -0.0105  
 0.0227 -0.0197 -0.0030 -0.0405 -0.0059 0.0273 0.0177 -0.0171 -0.0111 0.0105 0.0199 0.0037 0.0249 -0.0031 -0.0383  
 0.0483 -0.0186 -0.0331 -0.0626 -0.0018 0.0466 0.0021 -0.0399 -0.0245 0.0254 0.0380 0.0052 0.0542 -0.0055 -0.0257  
  
 Columns 1,996 through 2,010

0.0351 -0.0271 -0.0142 0.0114 -0.0037 -0.0049 -0.0433 0.0152 0.0218 -0.0394 -0.0087 -0.0306 0.0233 -0.0001 0.0268  
 0.0009 -0.0255 -0.0170 -0.0150 0.0161 -0.0242 -0.0350 -0.0280 0.0013 -0.0251 0.0132 -0.0108 -0.0004 -0.0016 0.0446  
 -0.0182 -0.0198 -0.0123 -0.0242 0.0088 -0.0109 -0.0167 -0.0516 -0.0096 0.0026 0.0254 0.0301 -0.0075 -0.0052 0.0405  
  
 Columns 2,011 through 2,025  
  
 -0.0016 -0.0072 -0.0382 -0.0946 -0.0426 0.0198 0.0187 -0.0011 0.0173 0.0088 -0.0178 0.0210 0.0276 0.0036 0.0253  
 -0.0423 0.0525 -0.0351 0.0010 0.0057 0.0038 -0.0052 0.0048 -0.0003 -0.0101 -0.0141 0.0193 -0.0161 0.0068 0.0596  
 -0.0455 0.0757 -0.0142 0.0835 0.0329 -0.0389 -0.0186 0.0103 -0.0145 -0.0167 -0.0159 0.0103 -0.0526 0.0073 0.0397  
  
 Columns 2,026 through 2,040  
  
 -0.0040 0.0579 -0.0016 0.0083 -0.0154 -0.0014 0.0174 -0.0065 -0.0002 0.0146 0.0241 0.0133 0.0403 0.0381 0.0363  
 0.0019 0.0217 -0.0081 -0.0059 -0.0150 -0.0008 -0.0209 -0.0473 0.0055 -0.0122 0.0077 0.0061 0.0207 0.0194 -0.0286  
 0.0079 -0.0290 -0.0052 -0.0094 -0.0077 -0.0115 -0.0429 -0.0506 0.0100 -0.0303 -0.0144 -0.0028 -0.0137 -0.0175 -0.0666  
  
 Columns 2,041 through 2,055  
  
 -0.0118 -0.0200 -0.0019 -0.0700 -0.0049 -0.0066 -0.0014 0.0214 -0.0218 -0.0258 0.0046 0.0505 -0.0149 -0.0237 -0.0406  
 -0.0361 -0.0063 0.0055 -0.0239 0.0292 0.0069 -0.0027 -0.0058 0.0199 0.0285 0.0084 -0.0257 0.0195 -0.0357 0.0276  
 -0.0297 -0.0028 0.0067 0.0412 0.0383 0.0197 -0.0066 -0.0385 0.0463 0.0520 0.0175 -0.0667 0.0333 -0.0289 0.0707  
  
 Columns 2,056 through 2,070  
  
 -0.0081 0.0096 0.0132 -0.0030 -0.0042 -0.0220 -0.0480 0.0400 -0.0023 -0.0035 0.0379 0.0050 0.0232 0.0072 -0.0270  
 -0.0187 0.0258 -0.0220 -0.0317 0.0063 -0.0279 0.0114 0.0241 -0.0091 -0.0147 0.0435 0.0010 0.0091 -0.0241 -0.0196  
 -0.0175 0.0118 -0.0410 -0.0378 -0.0025 -0.0061 0.0571 -0.0006 -0.0129 -0.0190 0.0074 0.0045 -0.0010 -0.0364 0.0042  
  
 Columns 2,071 through 2,085  
  
 -0.0103 0.0144 -0.0232 0.0141 0.0137 0.0084 0.0184 0.0157 0.0176 0.0032 -0.0107 -0.0353 -0.0163 0.0218 -0.0215  
 -0.0088 0.0344 -0.0136 -0.0073 -0.0078 0.0226 -0.0287 0.0202 -0.0197 -0.0051 -0.0501 0.0153 0.0133 -0.0020 0.0039  
 0.0045 0.0197 0.0039 -0.0148 -0.0203 0.0222 -0.0492 0.0120 -0.0301 -0.0109 -0.0525 0.0551 0.0289 -0.0119 0.0229  
  
 Columns 2,086 through 2,100  
  
 -0.0127 -0.0199 -0.0068 0.0268 -0.0079 -0.0101 0.0149 -0.0313 -0.0021 -0.0306 0.0216 -0.0400 -0.0098 0.0117 -0.0116  
 0.0072 0.0228 -0.0032 0.0208 0.0022 -0.0158 -0.0060 0.0025 0.0088 -0.0149 -0.0159 -0.0148 0.0088 -0.0074 -0.0078  
 0.0238 0.0421 -0.0022 -0.0063 0.0148 -0.0085 -0.0261 0.0402 0.0018 0.0019 -0.0364 0.0136 0.0033 -0.0181 0.0094  
  
 Columns 2,101 through 2,115  
  
 -0.0012 -0.0300 -0.0506 -0.0024 -0.0616 0.0026 0.0077 0.0027 0.0323 -0.0260 0.0080 -0.0121 -0.0154 0.0124 0.0306  
 0.0140 0.0064 -0.0209 -0.0149 -0.0416 -0.0063 -0.0156 -0.0166 -0.0222 0.0093 0.0096 -0.0284 0.0122 -0.0122 0.0278  
 0.0093 0.0408 0.0161 -0.0125 0.0085 -0.0184 -0.0325 -0.0423 -0.0472 0.0178 0.0012 -0.0131 0.0184 -0.0250 0.0188  
  
 Columns 2,116 through 2,130  
  
 0.0274 -0.0086 -0.0024 -0.0195 0.0515 -0.0318 0.0191 -0.0415 0.0511 -0.0115 0.0329 -0.0499 -0.0060 -0.0078 -0.0080  
 0.0146 -0.0221 -0.0651 0.0080 -0.0165 -0.0070 0.0049 -0.0387 0.0272 0.0049 -0.0115 0.0143 0.0043 0.0195 -0.0421  
 -0.0027 -0.0179 -0.0699 0.0247 -0.0776 0.0299 -0.0178 -0.0220 -0.0102 0.0182 -0.0358 0.0615 0.0051 0.0215 -0.0581  
  
 Columns 2,131 through 2,145  
  
 0.0133 0.0233 0.0005 0.0092 0.0387 0.0267 0.0020 0.0050 0.0058 -0.0292 0.0110 -0.0290 0.0173 -0.0235 0.0063  
 -0.0125 0.0303 0.0144 0.0225 0.0119 -0.0017 0.0239 0.0534 0.0067 0.0074 -0.0001 0.0107 -0.0065 0.0136 0.0272  
 -0.0202 0.0310 0.0149 0.0190 -0.0150 -0.0253 0.0326 0.0620 -0.0103 0.0423 0.0003 0.0402 -0.0206 0.0459 0.0324  
  
 Columns 2,146 through 2,160  
  
 -0.0120 0.0315 -0.0183 -0.0319 -0.0162 0.0013 -0.0185 -0.0200 0.0052 0.0031 -0.0129 -0.0062 0.0088 -0.0191 -0.0167  
 0.0199 0.0177 0.0113 0.0435 -0.0541 -0.0330 -0.0182 -0.0462 -0.0038 0.0023 0.0071 -0.0003 -0.0256 -0.0126 0.0039  
 0.0331 -0.0080 0.0130 0.0814 -0.0536 -0.0313 0.0008 -0.0320 -0.0056 0.0084 0.0220 -0.0001 -0.0462 0.0104 0.0085  
  
 Columns 2,161 through 2,175  
  
 -0.0104 -0.0226 0.0171 -0.0259 -0.0223 0.0076 -0.0176 0.0345 -0.0381 0.0167 0.0463 0.0450 -0.0173 -0.0241 -0.0003  
 -0.0168 -0.0274 -0.0187 0.0026 -0.0272 0.0312 0.0062 -0.0019 -0.0001 0.0232 -0.0085 -0.0095 0.0053 -0.0179 0.0089  
 -0.0154 -0.0045 -0.0547 0.0270 -0.0238 0.0414 0.0254 -0.0341 0.0388 0.0205 -0.0543 -0.0426 0.0309 -0.0143 0.0078  
  
 Columns 2,176 through 2,190  
  
 -0.0127 0.0365 -0.0203 0.0150 -0.0097 -0.0416 -0.0109 -0.0426 -0.0313 0.0141 -0.0017 -0.0189 0.0180 0.0160 0.0097  
 -0.0071 0.0076 -0.0009 0.0024 0.0119 -0.0111 0.0017 -0.0161 -0.0262 -0.0027 -0.0245 0.0316 -0.0096 0.0324 0.0277  
 -0.0008 -0.0121 0.0065 -0.0079 0.0171 0.0212 0.0144 0.0122 -0.0024 -0.0007 -0.0280 0.0459 -0.0332 0.0297 0.0387  
  
 Columns 2,191 through 2,205  
  
 -0.0222 0.0068 0.0185 -0.0035 0.0051 0.0221 -0.0003 -0.0426 -0.0133 -0.0214 -0.0281 -0.0244 -0.0216 0.0091 -0.0200  
 0.0266 0.0133 -0.0017 -0.0100 -0.0001 0.0094 0.0368 -0.0220 -0.0301 0.0143 -0.0287 -0.0166 0.0008 0.0194 0.0124  
 0.0378 0.0010 0.0029 -0.0098 -0.0235 -0.0091 0.0280 -0.0005 -0.0155 0.0410 -0.0110 -0.0098 0.0015 0.0236 0.0388  
  
 Columns 2,206 through 2,220  
  
 0.0043 -0.0313 0.0081 0.0305 -0.0041 -0.0058 0.0126 -0.0097 0.0348 0.0139 0.0166 0.0221 -0.0242 -0.0045 -0.0196  
 0.0058 -0.0136 0.0053 -0.0683 -0.0025 0.0169 -0.0271 -0.0414 0.0171 -0.0302 -0.0336 0.0335 -0.0282 0.0321 -0.0246  
 0.0112 0.0070 0.0047 -0.1104 -0.0089 0.0196 -0.0405 -0.0423 -0.0133 -0.0437 -0.0497 0.0289 -0.0189 0.0435 -0.0035  
  
 Columns 2,221 through 2,235  
  
 -0.0277 -0.0005 -0.0492 -0.0135 -0.0007 0.0160 0.0221 0.0290 -0.0331 0.0032 -0.0242 0.0199 -0.0309 -0.0089 0.0217  
 -0.0198 -0.0044 -0.0071 -0.0021 -0.0168 -0.0076 -0.0089 0.0127 -0.0148 0.0065 0.0182 -0.0360 0.0345 -0.0146 0.0292  
 0.0005 -0.0131 0.0238 -0.0003 -0.0367 -0.0266 -0.0282 -0.0132 0.0114 0.0012 0.0387 -0.0463 0.0633 -0.0076 0.0102  
  
 Columns 2,236 through 2,250  
  
 -0.0126 -0.0467 0.0131 0.0282 0.0068 0.0070 0.0129 -0.0302 -0.0285 -0.0202 0.0021 -0.0363 0.0050 -0.0074 0.0048  
 0.0349 -0.0642 -0.0148 0.0702 0.0052 0.0027 0.0091 0.0108 -0.0004 -0.0181 -0.0008 0.0001 -0.0033 0.0467 0.0124  
 0.0510 -0.0520 -0.0463 0.0420 0.0080 -0.0115 -0.0014 0.0262 0.0056 0.0031 0.0051 0.0295 -0.0104 0.0495 0.0111  
  
 Columns 2,251 through 2,265  
  
 0.0007 0.0118 0.0142 0.0110 0.0154 -0.0611 0.0288 0.0456 0.0062 0.0346 -0.0399 -0.0198 -0.0114 -0.0045 -0.0160  
 0.0122 -0.0272 0.0018 0.0142 -0.0090 0.0037 -0.0089 0.0174 -0.0364 0.0486 0.0137 -0.0073 -0.0294 -0.0207 -0.0120  
 0.0149 -0.0492 0.0158 0.0013 -0.0294 0.0554 -0.0298 -0.0289 -0.0423 0.0308 0.0502 0.0030 -0.0238 -0.0289 -0.0132  
  
 Columns 2,266 through 2,280  
  
 0.0446 0.0259 -0.0187 0.0428 -0.0001 -0.0238 0.0026 0.0036 -0.0173 0.0084 -0.0362 0.0076 -0.0223 -0.0035 -0.0010  
 0.0325 -0.0083 0.0297 0.0746 -0.0258 -0.0040 -0.0043 -0.0153 0.0312 0.0158 0.0013 0.0071 -0.0091 -0.0358 -0.0541  
 -0.0040 -0.0215 0.0519 0.0504 -0.0415 0.0063 0.0021 0.0005 0.0500 0.0091 0.0492 0.0043 0.0088 -0.0385 -0.0488  
  
 Columns 2,281 through 2,295  
  
 0.0241 -0.0217 0.0077 0.0348 0.0002 0.0598 -0.0105 -0.0151 0.0021 0.0181 -0.0016 0.0086 -0.0071 0.0308 -0.0230  
 -0.0062 -0.0235 -0.0099 -0.0121 -0.0309 0.0026 0.0005 -0.0161 -0.0012 0.0212 0.0028 -0.0337 -0.0209 0.0152 -0.0251  
 -0.0355 -0.0160 -0.0159 -0.0419 -0.0253 -0.0442 0.0083 0.0044 -0.0137 0.0298 0.0092 -0.0472 -0.0191 -0.0087 -0.0112  
  
 Columns 2,296 through 2,310  
  
 -0.0213 -0.0058 0.0094 -0.0310 0.0336 -0.0250 -0.0300 -0.0098 -0.0232 0.0630 -0.0136 0.0089 -0.0004 0.0273 0.0374  
 0.0016 0.0337 0.0149 0.0300 0.0465 0.0278 -0.0040 0.0524 -0.0151 -0.0014 0.0368 0.0189 -0.0005 0.0219 -0.0006  
 0.0213 0.0331 0.0042 0.0701 0.0116 0.0568 0.0139 0.0752 0.0113 -0.0521 0.0463 0.0197 0.0003 0.0073 -0.0333  
  
 Columns 2,311 through 2,325  
  
 0.0260 0.0068 -0.0029 -0.0074 -0.0220 0.0242 -0.0307 -0.0196 0.0181 -0.0419 -0.0232 -0.0031 0.0011 -0.0109 0.0163  
 0.0006 0.0065 -0.0129 -0.0146 -0.0075 -0.0098 -0.0019 -0.0046 0.0221 -0.0153 -0.0071 0.0147 0.0327 0.0023 0.0373  
 -0.0189 0.0140 -0.0117 -0.0027 0.0083 -0.0322 -0.0022 0.0056 0.0055 0.0142 0.0106 0.0071 0.0345 0.0148 0.0241  
  
 Columns 2,326 through 2,340  
  
 0.0372 -0.0188 -0.0023 0.0074 -0.0344 -0.0067 -0.0149 -0.0131 0.0170 0.0237 0.0355 0.0067 -0.0175 0.0194 0.0219  
 0.0088 -0.0027 0.0435 0.0141 0.0115 0.0120 -0.0268 -0.0039 0.0558 -0.0295 -0.0120 -0.0058 -0.0075 -0.0366 0.0121  
 -0.0292 0.0060 0.0449 -0.0104 0.0390 0.0225 -0.0278 0.0076 0.0578 -0.0418 -0.0466 -0.0144 -0.0005 -0.0565 -0.0084  
  
 Columns 2,341 through 2,355  
  
 -0.0309 -0.0163 -0.0217 0.0493 0.0213 -0.0432 -0.0041 0.0477 -0.0318 -0.0016 -0.0263 0.0355 -0.0034 0.0186 0.0125  
 0.0111 -0.0216 -0.0123 -0.0186 0.0431 -0.0112 -0.0024 -0.0123 -0.0119 0.0343 0.0005 0.0074 -0.0094 0.0133 0.0371  
 0.0384 -0.0079 0.0022 -0.0619 0.0319 0.0133 0.0045 -0.0535 0.0060 0.0361 0.0218 -0.0278 0.0089 0.0047 0.0460  
  
 Columns 2,356 through 2,370  
  
 0.0499 -0.0126 0.0687 -0.0114 -0.0060 -0.0089 0.0024 0.0072 0.0040 0.0094 -0.0430 0.0158 0.0137 0.0219 -0.0410  
 -0.0183 0.0210 0.0705 -0.0365 -0.0477 -0.0091 0.0351 -0.0025 -0.0075 0.0135 -0.0364 -0.0269 0.0313 -0.0013 -0.0328  
 -0.0586 0.0317 0.0223 -0.0301 -0.0476 -0.0078 0.0525 -0.0106 -0.0157 0.0174 -0.0083 -0.0364 0.0169 -0.0305 -0.0005  
  
 Columns 2,371 through 2,385  
  
 -0.0137 0.0016 -0.0328 -0.0135 0.0247 0.0085 0.0018 -0.0343 -0.0101 0.0057 -0.0022 -0.0098 -0.0111 0.0265 -0.0077  
 0.0225 -0.0162 -0.0063 0.0061 -0.0061 -0.0061 0.0158 0.0448 0.0135 -0.0077 -0.0069 -0.0069 0.0095 -0.0105 -0.0387  
 0.0370 -0.0078 0.0228 0.0106 -0.0199 -0.0136 0.0293 0.0844 0.0278 -0.0130 -0.0070 0.0016 0.0036 -0.0417 -0.0537  
  
 Columns 2,386 through 2,400  
  
 0.0194 0.0178 -0.0205 -0.0088 0.0337 0.0271 -0.0196 -0.0007 -0.0095 0.0142 -0.0163 0.0151 -0.0016 0.0538 -0.0053  
 0.0102 -0.0058 -0.0150 0.0117 0.0361 0.0342 0.0108 0.0479 -0.0239 0.0040 -0.0405 0.0194 -0.0037 0.0018 -0.0337  
 -0.0040 -0.0276 -0.0257 0.0129 0.0165 0.0282 0.0285 0.0581 -0.0149 0.0009 -0.0304 0.0051 -0.0063 -0.0442 -0.0273  
  
 Columns 2,401 through 2,415  
  
 0.0358 0.0056 -0.0440 -0.0330 -0.0205 0.0445 0.0205 -0.0052 -0.0006 0.0072 -0.0264 0.0013 -0.0266 -0.0112 -0.0046  
 -0.0010 -0.0148 -0.0450 -0.0228 -0.0044 0.0175 -0.0283 -0.0116 0.0127 -0.0024 -0.0248 0.0077 0.0166 -0.0126 -0.0086  
 -0.0414 -0.0300 -0.0186 0.0110 0.0271 -0.0045 -0.0437 -0.0144 0.0136 -0.0044 -0.0092 0.0079 0.0375 -0.0051 -0.0031  
  
 Columns 2,416 through 2,430  
  
 0.0072 -0.0174 -0.0298 -0.0337 -0.0205 0.0378 -0.0413 0.0182 -0.0074 0.0539 -0.0702 0.0315 0.0162 0.0087 0.0142  
 -0.0314 -0.0279 0.0005 -0.0086 0.0065 0.0199 0.0036 0.0225 0.0377 0.0083 -0.0119 0.0071 -0.0231 -0.0083 0.0270  
 -0.0409 -0.0188 0.0185 0.0189 0.0180 -0.0115 0.0409 0.0113 0.0519 -0.0490 0.0378 -0.0164 -0.0373 -0.0151 0.0331  
  
 Columns 2,431 through 2,445  
  
 0.0083 -0.0034 0.0305 -0.0125 -0.0137 0.0131 0.0279 0.0009 0.0203 -0.0213 0.0122 -0.0064 -0.0007 -0.0233 -0.0128  
 -0.0356 0.0260 -0.0038 -0.0111 -0.0054 0.0074 -0.0092 0.0073 0.0198 -0.0099 -0.0461 0.0001 0.0177 0.0013 0.0200  
 -0.0569 0.0460 -0.0447 -0.0116 -0.0033 0.0012 -0.0459 0.0139 0.0006 0.0034 -0.0508 0.0166 0.0321 0.0065 0.0249  
  
 Columns 2,446 through 2,460  
  
 0.0059 -0.0263 0.0308 0.0020 -0.0026 0.0097 0.0018 0.0183 -0.0178 -0.0324 -0.0168 0.0209 -0.0122 -0.0116 0.0124  
 -0.0181 0.0032 0.0174 -0.0051 -0.0044 0.0006 -0.0037 0.0119 -0.0205 -0.0241 0.0251 -0.0101 0.0191 -0.0223 -0.0170  
 -0.0230 0.0173 -0.0007 -0.0079 -0.0068 -0.0081 -0.0120 0.0006 -0.0096 0.0052 0.0475 -0.0365 0.0217 -0.0144 -0.0343  
  
 Columns 2,461 through 2,475  
  
 0.0006 -0.0112 0.0120 0.0080 -0.0115 -0.0017 -0.0181 -0.0111 0.0189 -0.0334 0.0000 0.0302 0.0208 0.0136 0.0319  
 0.0261 0.0309 -0.0283 0.0115 0.0342 0.0232 -0.0227 0.0310 0.0187 0.0010 -0.0007 -0.0173 0.0069 -0.0121 0.0319  
 0.0229 0.0446 -0.0479 0.0109 0.0527 0.0212 -0.0013 0.0403 0.0052 0.0307 0.0031 -0.0452 -0.0090 -0.0326 -0.0149  
  
 Columns 2,476 through 2,490  
  
 0.0039 -0.0021 -0.0266 -0.0017 0.0024 0.0102 0.0127 -0.0123 0.0036 -0.0076 0.0137 0.0041 -0.0090 0.0052 0.0383  
 0.0055 -0.0011 -0.0169 -0.0046 0.0534 0.0076 -0.0081 0.0171 -0.0103 -0.0071 -0.0092 -0.0132 0.0450 0.0084 -0.0111  
 0.0032 0.0035 -0.0070 0.0048 0.0625 -0.0079 -0.0304 0.0237 -0.0235 -0.0046 -0.0209 -0.0180 0.0665 -0.0039 -0.0623  
  
 Columns 2,491 through 2,505  
  
 0.0052 0.0071 -0.0109 -0.0071 -0.0092 0.0011 -0.0032 -0.0381 -0.0002 -0.0018 0.0077 -0.0163 -0.0262 0.0204 -0.0167  
 0.0318 0.0112 0.0174 -0.0424 0.0001 -0.0177 -0.0108 0.0032 -0.0109 -0.0084 -0.0120 -0.0090 0.0045 -0.0244 -0.0102

0.0240 0.0149 0.0400 -0.0489 -0.0002 -0.0071 0.0017 0.0253 -0.0288 0.0027 -0.0237 -0.0069 0.0308 -0.0346 0.0207  
  
 Columns 2,506 through 2,520  
  
 -0.0206 0.0255 -0.0136 0.0116 0.0120 0.0116 0.0134 -0.0034 -0.0190 0.0241 -0.0049 0.0219 0.0060 0.0218 0.0109  
 -0.0573 0.0124 -0.0346 0.0056 -0.0175 -0.0177 0.0321 0.0531 -0.0159 0.0101 0.0506 -0.0097 0.0520 0.0211 -0.0054  
 -0.0581 0.0008 -0.0208 -0.0146 -0.0266 -0.0247 0.0145 0.0658 0.0038 -0.0032 0.0664 -0.0304 0.0632 0.0038 -0.0227  
  
 Columns 2,521 through 2,535  
  
 -0.0168 0.0035 0.0249 -0.0043 0.0217 0.0511 0.0209 0.0445 0.0064 0.0396 0.0142 0.0049 0.0105 -0.0039 0.0271  
 -0.0029 0.0295 0.0156 -0.0161 0.0096 -0.0038 0.0174 0.0404 0.0139 -0.0241 0.0057 -0.0164 0.0445 -0.0385 -0.0106  
 0.0181 0.0213 -0.0080 -0.0152 -0.0105 -0.0410 0.0109 0.0053 0.0107 -0.0724 -0.0098 -0.0235 0.0377 -0.0369 -0.0349  
  
 Columns 2,536 through 2,550  
  
 0.0089 0.0142 0.0197 -0.0832 -0.0349 -0.0209 0.0055 0.0428 0.0211 0.0005 -0.0172 0.0282 -0.0043 -0.0173 -0.0067  
 0.0274 0.0011 0.0057 0.0023 0.0145 -0.0210 0.0024 -0.0043 0.0015 -0.0042 -0.0246 0.0281 0.0088 -0.0105 -0.0076  
 0.0302 0.0046 -0.0086 0.0745 0.0384 -0.0024 0.0027 -0.0419 -0.0159 -0.0163 -0.0195 0.0118 0.0132 0.0057 -0.0140  
  
 Columns 2,551 through 2,565  
  
 0.0326 -0.0027 -0.0093 0.0418 -0.0299 -0.0110 0.0135 0.0397 -0.0176 -0.0087 -0.0047 0.0161 0.0022 0.0087 0.0017  
 0.0269 0.0204 0.0118 0.0118 -0.0182 -0.0073 -0.0100 0.0237 0.0197 0.0205 0.0048 0.0442 -0.0226 -0.0117 0.0078  
 0.0012 0.0235 0.0194 -0.0168 0.0060 -0.0081 -0.0240 0.0145 0.0382 0.0206 0.0022 0.0308 -0.0165 -0.0325 0.0119  
  
 Columns 2,566 through 2,580  
  
 -0.0722 0.0092 0.0149 -0.0133 0.0293 0.0131 -0.0101 0.0201 -0.0008 -0.0056 0.0038 0.0190 -0.0103 0.0082 -0.0030  
 0.0292 0.0179 -0.0042 0.0141 0.0276 0.0043 -0.0561 0.0382 -0.0670 0.0066 -0.0255 -0.0064 0.0112 -0.0080 0.0297  
 0.0980 0.0164 -0.0168 0.0304 0.0129 -0.0083 -0.0610 0.0356 -0.0626 0.0167 -0.0234 -0.0247 0.0045 -0.0138 0.0237  
  
 Columns 2,581 through 2,595  
  
 -0.0167 -0.0571 0.0264 -0.0041 -0.0267 -0.0268 0.0104 0.0090 -0.0174 0.0327 -0.0316 0.0328 0.0448 0.0340 -0.0087  
 0.0270 -0.0140 -0.0042 -0.0126 -0.0104 -0.0477 0.0266 0.0116 0.0081 0.0473 -0.0332 0.0045 0.0344 0.0397 -0.0175  
 0.0548 0.0340 -0.0164 -0.0112 -0.0017 -0.0207 0.0304 0.0087 0.0171 0.0204 -0.0283 -0.0039 0.0002 0.0273 -0.0235  
  
 Columns 2,596 through 2,610  
  
 0.0073 0.0216 -0.0220 -0.0086 0.0047 0.0349 -0.0310 0.0010 0.0189 0.0102 0.0113 0.0017 0.0028 -0.0208 -0.0190  
 -0.0068 0.0141 -0.0312 -0.0040 -0.0338 -0.0090 0.0054 0.0144 0.0301 -0.0319 0.0111 -0.0220 0.0166 0.0359 0.0306  
 -0.0088 0.0015 -0.0176 -0.0008 -0.0594 -0.0364 0.0222 0.0273 0.0140 -0.0521 0.0059 -0.0246 0.0179 0.0661 0.0594  
  
 Columns 2,611 through 2,625  
  
 0.0192 -0.0133 -0.0040 0.0019 -0.0075 0.0139 -0.0054 -0.0007 0.0095 -0.0124 -0.0250 0.0284 0.0053 -0.0128 0.0043  
 -0.0383 0.0160 0.0144 0.0263 -0.0058 -0.0103 0.0058 -0.0241 0.0085 0.0039 0.0397 0.0447 -0.0304 -0.0130 0.0242  
 -0.0530 0.0315 0.0326 0.0439 0.0069 -0.0011 -0.0011 -0.0372 0.0142 0.0167 0.0530 0.0146 -0.0394 -0.0037 0.0241  
  
 Columns 2,626 through 2,640  
  
 0.0088 -0.0054 0.0110 -0.0158 0.0245 0.0330 -0.0092 0.0195 0.0005 -0.0070 -0.0200 0.0234 0.0059 -0.0017 0.0231  
 -0.0404 0.0151 -0.0134 0.0341 0.0016 -0.0078 0.0407 0.0118 -0.0015 -0.0319 0.0200 0.0026 -0.0423 -0.0151 0.0674  
 -0.0477 0.0104 -0.0313 0.0557 -0.0034 -0.0298 0.0439 -0.0078 0.0028 -0.0360 0.0377 -0.0250 -0.0446 -0.0102 0.0516  
  
 Columns 2,641 through 2,655  
  
 -0.0060 -0.0125 0.0180 -0.0065 -0.0234 -0.0039 0.0583 -0.0084 -0.0490 -0.0004 -0.0196 0.0002 0.0044 0.0018 -0.0029  
 -0.0063 -0.0419 -0.0232 -0.0047 0.0180 -0.0064 0.0239 -0.0164 -0.0346 0.0082 -0.0063 -0.0164 -0.0078 0.0016 -0.0201  
 -0.0064 -0.0309 -0.0463 0.0056 0.0454 -0.0057 -0.0125 -0.0239 -0.0009 -0.0068 0.0145 -0.0235 -0.0240 0.0027 -0.0268  
  
 Columns 2,656 through 2,670  
  
 -0.0240 0.0066 0.0300 0.0013 0.0101 -0.0450 -0.0002 -0.0182 -0.0212 -0.0088 0.0155 0.0443 -0.0150 0.0192 0.0015  
 -0.0054 0.0428 0.0122 -0.0204 -0.0316 -0.0183 -0.0183 0.0300 0.0043 -0.0313 0.0104 -0.0273 0.0243 0.0073 0.0112  
 0.0106 0.0362 -0.0165 -0.0289 -0.0556 0.0132 -0.0045 0.0412 0.0256 -0.0303 0.0028 -0.0697 0.0517 -0.0010 0.0200  
  
 Columns 2,671 through 2,685  
  
 0.0092 -0.0243 0.0003 0.0088 -0.0046 -0.0304 0.0171 -0.0265 -0.0481 -0.0188 -0.0325 0.0257 -0.0183 -0.0143 -0.0296  
 0.0156 0.0021 -0.0206 -0.0346 0.0071 -0.0182 0.0003 -0.0298 0.0073 0.0024 -0.0353 0.0012 0.0135 0.0427 -0.0103  
 0.0146 0.0112 -0.0250 -0.0483 0.0209 0.0106 -0.0251 0.0044 0.0454 0.0175 -0.0156 -0.0169 0.0284 0.0507 0.0161  
  
 Columns 2,686 through 2,700  
  
 -0.0279 -0.0008 -0.0133 0.0045 0.0301 -0.0171 0.0022 -0.0052 -0.0189 0.0016 -0.0337 0.0134 0.0070 0.0022 0.0147  
 0.0224 -0.0187 0.0027 0.0149 0.0196 -0.0112 -0.0295 -0.0093 0.0088 0.0013 -0.0117 0.0091 0.0072 -0.0197 0.0054  
 0.0448 -0.0191 0.0145 0.0295 0.0021 0.0047 -0.0325 -0.0079 0.0276 0.0113 0.0141 -0.0034 -0.0035 -0.0268 0.0015  
  
 Columns 2,701 through 2,715  
  
 0.0078 0.0214 -0.0528 0.0001 -0.0317 0.0125 0.0153 0.0071 -0.0163 -0.0149 0.0320 0.0128 0.0144 0.0062 -0.0344  
 0.0287 0.0138 -0.0337 0.0401 -0.0116 -0.0147 -0.0328 -0.0160 -0.0072 -0.0116 -0.0017 -0.0603 0.0479 0.0370 -0.0268  
 0.0320 -0.0004 0.0126 0.0487 0.0209 -0.0279 -0.0520 -0.0370 0.0039 -0.0018 -0.0184 -0.0999 0.0204 0.0374 -0.0119  
  
 Columns 2,716 through 2,730  
  
 -0.0177 -0.0125 -0.0055 0.0040 0.0337 0.0351 -0.0103 0.0294 0.0617 -0.0106 0.0124 -0.0179 0.0287 0.0039 -0.0044  
 0.0150 0.0087 0.0093 -0.0112 0.0382 -0.0273 0.0369 -0.0330 0.0020 0.0313 0.0132 -0.0402 0.0242 0.0029 -0.0183  
 0.0501 0.0226 0.0244 -0.0149 0.0239 -0.0666 0.0445 -0.0596 -0.0511 0.0556 0.0115 -0.0321 0.0010 -0.0015 -0.0158  
  
 Columns 2,731 through 2,745  
  
 -0.0355 -0.0132 0.0189 0.0147 0.0263 -0.0361 0.0162 -0.0321 0.0035 0.0076 0.0110 0.0068 -0.0180 -0.0180 -0.0090  
 0.0178 0.0155 0.0488 0.0068 -0.0022 -0.0244 -0.0307 0.0054 -0.0440 -0.0000 -0.0165 0.0076 -0.0517 0.0212 -0.0210  
 0.0630 0.0288 0.0344 0.0008 -0.0248 -0.0025 -0.0387 0.0323 -0.0499 -0.0022 -0.0384 -0.0088 -0.0294 0.0418 -0.0225  
  
 Columns 2,746 through 2,760  
  
 -0.0124 -0.0020 0.0362 0.0218 0.0202 0.0080 -0.0124 0.0045 0.0330 -0.0070 0.0288 -0.0185 0.0375 0.0100 -0.0187  
 -0.0149 0.0032 0.0134 -0.0055 -0.0252 0.0251 -0.0043 -0.0061 0.0445 0.0068 -0.0176 0.0005 -0.0366 -0.0146 0.0027  
 0.0086 0.0085 -0.0141 -0.0242 -0.0409 0.0177 -0.0002 -0.0024 0.0313 0.0131 -0.0384 0.0068 -0.0744 -0.0177 0.0211  
  
 Columns 2,761 through 2,775  
  
 -0.0033 -0.0372 -0.0086 0.0030 0.0029 -0.0136 -0.0171 -0.0058 0.0478 0.0048 -0.0211 0.0051 -0.0023 -0.0051 -0.0038  
 0.0080 -0.0077 -0.0529 0.0235 0.0193 0.0046 -0.0147 -0.0060 -0.0036 0.0080 -0.0057 -0.0205 -0.0042 0.0166 0.0236  
 0.0109 0.0204 -0.0581 0.0274 0.0103 -0.0008 -0.0008 0.0018 -0.0345 0.0062 0.0046 -0.0304 -0.0246 0.0209 0.0378  
  
 Columns 2,776 through 2,790  
  
 -0.0077 -0.0576 -0.0269 0.0013 -0.0032 -0.0132 -0.0023 0.0098 0.0380 0.0139 0.0142 -0.0172 0.0170 0.0060 -0.0347  
 -0.0029 -0.0347 0.0087 0.0403 -0.0178 -0.0413 0.0390 0.0030 0.0267 0.0342 -0.0404 -0.0296 -0.0102 0.0061 0.0211  
 0.0171 0.0153 0.0311 0.0500 -0.0063 -0.0248 0.0513 -0.0025 -0.0085 0.0346 -0.0703 -0.0333 -0.0205 0.0027 0.0533  
  
 Columns 2,791 through 2,805  
  
 -0.0214 -0.0548 0.0153 0.0327 -0.0137 -0.0044 0.0003 0.0166 -0.0062 0.0012 -0.0075 0.0215 -0.0006 -0.0246 -0.0263  
 0.0039 -0.0575 0.0320 -0.0035 0.0032 -0.0373 0.0116 -0.0041 0.0022 -0.0383 -0.0262 -0.0122 0.0248 -0.0082 0.0098  
 0.0280 -0.0178 0.0236 -0.0397 0.0293 -0.0277 0.0152 -0.0299 0.0038 -0.0560 -0.0300 -0.0273 0.0141 0.0248 0.0498  
  
 Columns 2,806 through 2,820  
  
 0.0201 -0.0041 0.0023 -0.0230 0.0165 0.0074 0.0260 -0.0043 -0.0193 0.0052 -0.0086 0.0129 0.0133 -0.0271 -0.0092  
 -0.0088 0.0037 0.0161 -0.0053 0.0036 0.0054 0.0189 -0.0381 0.0111 0.0172 0.0108 0.0162 0.0472 0.0240 -0.0279  
 -0.0196 -0.0069 0.0302 0.0109 -0.0283 -0.0104 -0.0042 -0.0288 0.0370 0.0096 0.0230 0.0012 0.0381 0.0497 -0.0239  
  
 Columns 2,821 through 2,835  
  
 -0.0122 -0.0139 0.0389 -0.0135 0.0031 -0.0185 -0.0142 -0.0202 -0.0156 -0.0237 0.0165 0.0188 0.0088 -0.0111 0.0185  
 -0.0178 0.0014 0.0045 0.0019 0.0127 -0.0094 -0.0020 0.0023 0.0069 0.0128 0.0047 -0.0174 0.0174 0.0174 0.0192  
 -0.0066 0.0192 -0.0170 0.0189 -0.0026 0.0104 0.0160 0.0295 0.0158 0.0283 -0.0040 -0.0471 0.0071 0.0313 0.0100  
  
 Columns 2,836 through 2,850  
  
 0.0012 -0.0342 -0.0435 0.0072 0.0105 0.0180 -0.0300 0.0442 0.0091 -0.0063 0.0185 0.0265 0.0294 -0.0303 0.0512  
 0.0697 -0.0119 -0.0049 0.0040 0.0062 -0.0069 0.0283 0.0439 0.0151 -0.0142 0.0052 -0.0189 -0.0347 0.0006 -0.0021  
 0.0722 0.0098 0.0268 0.0024 -0.0106 -0.0212 0.0663 0.0066 0.0193 -0.0208 0.0034 -0.0548 -0.0642 0.0325 -0.0375  
  
 Columns 2,851 through 2,865  
  
 -0.0260 0.0055 -0.0110 0.0026 0.0313 -0.0121 -0.0085 -0.0024 -0.0130 -0.0019 -0.0210 -0.0264 0.0276 0.0092 -0.0037  
 0.0300 0.0023 -0.0148 0.0235 -0.0232 0.0087 -0.0367 -0.0077 0.0116 0.0230 -0.0386 0.0110 0.0334 -0.0278 -0.0274  
 0.0606 -0.0040 -0.0197 0.0160 -0.0419 0.0229 -0.0436 -0.0000 0.0310 0.0299 -0.0392 0.0373 0.0096 -0.0475 -0.0311  
  
 Columns 2,866 through 2,880  
  
 0.0291 -0.0315 0.0106 0.0194 0.0072 -0.0440 0.0196 0.0167 0.0221 -0.0175 -0.0214 -0.0071 0.0247 -0.0035 0.0473  
 -0.0084 -0.0069 -0.0011 -0.0040 -0.0021 0.0003 -0.0017 -0.0063 0.0208 -0.0139 -0.0278 -0.0050 -0.0094 -0.0280 -0.0104  
 -0.0456 0.0051 -0.0128 -0.0109 -0.0136 0.0404 -0.0139 -0.0066 0.0107 -0.0106 -0.0269 0.0099 -0.0334 -0.0350 -0.0470  
  
 Columns 2,881 through 2,895  
  
 -0.0012 -0.0331 0.0030 0.0256 -0.0136 0.0299 -0.0120 -0.0118 0.0341 0.0204 -0.0088 -0.0257 -0.0077 0.0043 0.0108  
 0.0297 -0.0191 -0.0238 -0.0012 0.0182 0.0084 0.0207 -0.0178 -0.0140 -0.0185 0.0057 -0.0321 -0.0038 -0.0322 -0.0106  
 0.0350 -0.0002 -0.0155 -0.0180 0.0286 -0.0023 0.0175 -0.0079 -0.0469 -0.0364 -0.0033 -0.0267 -0.0083 -0.0354 -0.0203  
  
 Columns 2,896 through 2,910  
  
 -0.0285 0.0101 0.0071 -0.0089 0.0549 -0.0214 0.0356 -0.0209 0.0404 0.0164 0.0100 -0.0024 0.0173 0.0154 -0.0416  
 0.0218 -0.0094 -0.0114 0.0106 0.0478 0.0100 0.0112 -0.0160 -0.0052 0.0132 -0.0346 0.0249 0.0194 0.0259 0.0188  
 0.0587 -0.0029 -0.0310 0.0191 0.0047 0.0283 -0.0324 -0.0039 -0.0390 0.0087 -0.0610 0.0295 0.0058 0.0169 0.0536  
  
 Columns 2,911 through 2,925  
  
 0.0463 -0.0163 0.0176 -0.0041 -0.0255 0.0013 -0.0055 -0.0341 0.0123 0.0171 -0.0284 -0.0069 -0.0169 0.0292 0.0271  
 0.0238 -0.0108 0.0127 0.0111 0.0175 0.0301 0.0339 -0.0048 0.0248 0.0135 -0.0044 -0.0307 0.0328 -0.0422 0.0130  
 0.0034 0.0063 -0.0027 0.0031 0.0431 0.0397 0.0428 0.0185 0.0129 0.0101 0.0036 -0.0262 0.0513 -0.0776 -0.0053  
  
 Columns 2,926 through 2,940  
  
 0.0243 0.0466 -0.0114 0.0210 0.0121 0.0049 0.0394 0.0127 -0.0182 0.0191 0.0100 0.0262 -0.0033 0.0215 0.0031  
 -0.0082 -0.0080 0.0072 0.0188 0.0193 0.0036 0.0160 -0.0071 0.0178 0.0070 0.0406 0.0022 0.0316 0.0020 0.0170  
 -0.0336 -0.0392 0.0191 0.0099 -0.0020 -0.0004 -0.0190 -0.0318 0.0241 -0.0279 0.0709 -0.0243 0.0305 -0.0126 0.0136  
  
 Columns 2,941 through 2,955  
  
 -0.0061 -0.0367 -0.0268 -0.0006 0.0052 -0.0093 -0.0408 -0.0223 0.0430 0.0210 0.0178 0.0232 -0.0184 0.0072 -0.0380  
 -0.0155 -0.0275 0.0151 0.0039 0.0230 -0.0172 0.0133 -0.0007 0.0090 0.0403 0.0241 -0.0413 0.0033 -0.0195 -0.0118  
 -0.0072 -0.0028 0.0397 -0.0047 0.0194 -0.0123 0.0468 0.0174 -0.0241 0.0255 0.0014 -0.0603 0.0178 -0.0290 0.0205  
  
 Columns 2,956 through 2,970  
  
 -0.0131 -0.0213 -0.0506 -0.0017 -0.0199 -0.0042 0.0129 -0.0229 0.0206 -0.0291 -0.0265 -0.0009 0.0570 -0.0485 0.0247  
 -0.0153 0.0181 0.0168 0.0017 0.0018 0.0174 0.0137 -0.0140 -0.0116 0.0020 0.0055 -0.0027 0.0074 -0.0124 -0.0010  
 -0.0047 0.0246 0.0590 -0.0062 0.0092 0.0297 0.0008 -0.0103 -0.0402 0.0228 0.0438 0.0036 -0.0368 0.0256 -0.0268  
  
 Columns 2,971 through 2,985  
  
 0.0141 0.0283 0.0013 0.0346 -0.0546 0.0140 -0.0101 -0.0151 0.0149 0.0067 -0.0508 -0.0057 0.0150 -0.0209 -0.0013  
 0.0397 -0.0138 -0.0258 0.0116 0.0059 -0.0195 0.0143 0.0139 -0.0256 -0.0201 -0.0429 0.0106 -0.0039 -0.0127 -0.0256  
 0.0141 -0.0312 -0.0313 -0.0164 0.0674 -0.0383 0.0322 0.0277 -0.0426 -0.0387 -0.0090 0.0252 -0.0261 -0.0183 -0.0278  
  
 Columns 2,986 through 3,000  
  
 -0.0197 -0.0245 -0.0235 -0.0214 -0.0250 -0.0116 -0.0005 -0.0412 -0.0126 -0.0464 -0.0067 0.0121 -0.0125 0.0104 -0.0026  
 -0.0008 -0.0077 0.0248 0.0044 -0.0299 0.0177 -0.0283 0.0299 -0.0093 -0.0495 -0.0153 0.0196 0.0118 0.0233 0.0434  
 0.0120 0.0120 0.0451 0.0241 -0.0239 0.0517 -0.0453 0.0719 0.0044 -0.0201 -0.0197 0.0040 0.0227 0.0330 0.0533

Columns 3,001 through 3,015  
  
 0.0154 -0.0278 -0.0119 0.0041 0.0264 -0.0167 -0.0051 -0.0144 0.0313 0.0186 0.0060 -0.0306 0.0354 -0.0135 -0.0076  
 0.0076 -0.0089 -0.0194 -0.0273 -0.0082 0.0056 0.0399 0.0118 -0.0203 0.0014 -0.0012 -0.0094 0.0352 -0.0033 0.0169  
 0.0118 0.0049 -0.0093 -0.0428 -0.0358 0.0149 0.0434 0.0218 -0.0503 -0.0117 0.0028 0.0177 0.0110 -0.0006 0.0213  
  
 Columns 3,016 through 3,030  
  
 -0.0015 0.0308 0.0110 0.0028 0.0096 -0.0037 -0.0383 0.0396 -0.0042 -0.0237 0.0010 0.0139 0.0069 0.0002 -0.0194  
 0.0165 -0.0016 0.0133 -0.0356 0.0272 0.0182 0.0257 -0.0214 0.0116 -0.0023 0.0010 0.0125 0.0141 0.0066 -0.0041  
 0.0223 -0.0180 -0.0031 -0.0466 0.0286 0.0280 0.0674 -0.0537 0.0316 0.0187 -0.0010 -0.0066 0.0071 -0.0002 0.0075  
  
 Columns 3,031 through 3,045  
  
 -0.0114 -0.0229 0.0198 -0.0052 -0.0023 -0.0451 0.0118 -0.0043 -0.0571 0.0052 0.0102 -0.0105 -0.0202 -0.0328 -0.0086  
 0.0274 -0.0150 0.0202 -0.0050 -0.0055 0.0057 -0.0272 0.0144 -0.0265 0.0094 -0.0282 -0.0345 0.0145 -0.0166 -0.0425  
 0.0323 -0.0006 0.0186 0.0068 -0.0075 0.0419 -0.0414 0.0292 0.0190 -0.0023 -0.0267 -0.0190 0.0163 0.0026 -0.0365  
  
 Columns 3,046 through 3,060  
  
 -0.0332 -0.0093 0.0347 -0.0162 0.0095 0.0070 -0.0238 0.0296 0.0170 -0.0116 0.0391 0.0116 0.0229 0.0075 -0.0126  
 -0.0398 -0.0154 0.0061 0.0066 0.0238 0.0147 -0.0126 0.0116 0.0514 0.0008 -0.0118 0.0101 -0.0039 -0.0323 -0.0014  
 -0.0122 -0.0198 -0.0288 0.0225 0.0165 0.0157 0.0001 -0.0275 0.0441 0.0127 -0.0578 -0.0124 -0.0203 -0.0421 0.0120  
  
 Columns 3,061 through 3,075  
  
 0.0177 0.0195 -0.0026 -0.0082 0.0020 -0.0044 -0.0198 -0.0173 -0.0479 -0.0428 0.0105 0.0091 -0.0204 0.0002 0.0408  
 -0.0041 0.0199 -0.0124 -0.0108 -0.0104 0.0261 0.0093 -0.0017 -0.0030 -0.0104 -0.0393 0.0086 0.0061 -0.0302 0.0071  
 -0.0309 0.0174 0.0003 -0.0013 -0.0091 0.0373 0.0411 0.0009 0.0298 0.0259 -0.0490 0.0006 0.0183 -0.0453 -0.0263  
  
 Columns 3,076 through 3,090  
  
 -0.0094 -0.0082 -0.0003 0.0335 -0.0118 -0.0217 -0.0042 0.0006 0.0113 0.0197 -0.0157 -0.0257 0.0181 -0.0006 -0.0037  
 -0.0128 0.0350 0.0031 0.0182 -0.0409 -0.0158 -0.0280 0.0115 0.0120 -0.0044 0.0433 -0.0009 0.0121 0.0181 -0.0525  
 -0.0073 0.0438 0.0070 -0.0012 -0.0488 0.0050 -0.0244 0.0076 0.0005 -0.0118 0.0439 0.0052 -0.0020 -0.0020 -0.0516  
  
 Columns 3,091 through 3,105  
  
 -0.0113 0.0202 0.0154 0.0329 0.0080 -0.0291 -0.0413 -0.0185 -0.0009 -0.0174 -0.0052 0.0014 0.0247 0.0337 -0.0132  
 -0.0099 0.0204 0.0070 -0.0215 0.0152 -0.0565 -0.0026 0.0008 0.0051 -0.0007 -0.0184 -0.0038 0.0049 -0.0231 -0.0224  
 -0.0066 0.0211 -0.0054 -0.0550 0.0118 -0.0390 0.0339 0.0112 0.0118 0.0086 -0.0163 -0.0202 -0.0074 -0.0462 -0.0254  
  
 Columns 3,106 through 3,120  
  
 -0.0074 -0.0220 0.0105 0.0230 -0.0185 0.0272 0.0151 0.0420 -0.0039 -0.0093 0.0000 0.0123 -0.0132 -0.0106 0.0101  
 -0.0162 -0.0257 0.0124 0.0045 -0.0171 -0.0128 0.0279 0.0333 -0.0066 -0.0010 0.0103 0.0439 0.0222 -0.0125 -0.0073  
 -0.0125 -0.0088 0.0042 -0.0149 -0.0105 -0.0418 0.0069 0.0009 -0.0054 0.0056 -0.0101 0.0391 0.0353 -0.0078 -0.0130  
  
 Columns 3,121 through 3,135  
  
 0.0081 0.0196 0.0365 -0.0158 -0.0065 -0.0068 -0.0246 -0.0129 -0.0206 0.0297 0.0191 -0.0032 -0.0413 0.0385 0.0196  
 0.0246 -0.0013 -0.0111 -0.0128 0.0285 0.0015 -0.0126 0.0178 -0.0090 -0.0025 0.0442 0.0164 -0.0153 -0.0040 -0.0224  
 0.0259 -0.0048 -0.0369 -0.0026 0.0441 0.0066 -0.0055 0.0258 -0.0021 -0.0117 0.0523 0.0264 0.0125 -0.0381 -0.0533  
  
 Columns 3,136 through 3,150  
  
 -0.0038 -0.0169 -0.0159 0.0128 0.0039 -0.0194 -0.0123 0.0067 0.0260 -0.0185 0.0333 -0.0007 0.0015 -0.0383 0.0038  
 0.0089 -0.0102 -0.0199 -0.0414 -0.0182 -0.0129 0.0242 0.0504 0.0173 0.0118 0.0078 0.0149 0.0143 -0.0378 0.0181  
 0.0221 0.0126 -0.0135 -0.0656 -0.0297 0.0075 0.0491 0.0647 -0.0124 0.0209 -0.0314 0.0195 0.0118 -0.0225 0.0155  
  
 Columns 3,151 through 3,165  
  
 0.0222 0.0194 0.0018 0.0591 -0.0003 0.0186 -0.0216 -0.0063 0.0178 0.0138 0.0328 -0.0173 0.0009 -0.0220 0.0135  
 -0.0229 0.0259 -0.0176 0.0093 -0.0032 -0.0255 0.0012 0.0260 0.0027 0.0013 0.0021 0.0253 0.0243 -0.0107 0.0515  
 -0.0438 0.0198 -0.0200 -0.0209 0.0030 -0.0433 0.0237 0.0358 -0.0074 -0.0212 -0.0318 0.0433 0.0509 -0.0054 0.0396  
  
 Columns 3,166 through 3,180  
  
 -0.0077 -0.0158 -0.0051 -0.0480 -0.0010 0.0071 0.0185 0.0158 -0.0073 0.0104 0.0435 -0.0069 -0.0123 -0.0050 -0.0123  
 0.0251 -0.0336 0.0231 -0.0319 -0.0049 0.0153 0.0124 -0.0068 0.0243 0.0352 -0.0323 -0.0173 0.0235 -0.0005 0.0037  
 0.0347 -0.0325 0.0286 0.0029 -0.0089 0.0177 -0.0113 -0.0214 0.0451 0.0241 -0.0695 -0.0060 0.0351 0.0099 0.0203  
  
 Columns 3,181 through 3,195  
  
 0.0101 -0.0084 -0.0088 -0.0044 -0.0074 -0.0013 -0.0037 -0.0391 0.0014 0.0026 -0.0076 0.0148 -0.0250 -0.0130 -0.0188  
 0.0153 0.0438 -0.0402 -0.0140 -0.0266 0.0041 -0.0058 -0.0062 0.0237 -0.0073 0.0058 0.0247 0.0064 -0.0174 0.0043  
 0.0018 0.0510 -0.0453 -0.0051 -0.0443 0.0095 -0.0099 0.0330 0.0213 0.0012 0.0151 0.0146 0.0303 -0.0091 0.0251  
  
 Columns 3,196 through 3,210  
  
 0.0311 0.0338 -0.0092 -0.0131 -0.0104 -0.0378 -0.0141 0.0044 0.0222 0.0045 -0.0244 -0.0430 0.0198 -0.0151 -0.0171  
 0.0110 0.0053 0.0291 -0.0033 -0.0097 -0.0333 -0.0102 -0.0280 -0.0322 0.0103 -0.0392 -0.0258 0.0208 0.0133 0.0291  
 -0.0027 -0.0110 0.0401 0.0105 0.0028 -0.0135 -0.0087 -0.0302 -0.0534 0.0122 -0.0278 -0.0005 0.0061 0.0230 0.0441  
  
 Columns 3,211 through 3,225  
  
 -0.0373 0.0001 0.0127 0.0282 0.0224 -0.0004 0.0182 0.0210 0.0216 0.0040 -0.0037 -0.0275 0.0055 0.0229 0.0331  
 -0.0356 0.0147 -0.0025 0.0450 0.0109 0.0157 0.0081 -0.0006 0.0004 -0.0074 0.0143 -0.0097 -0.0228 0.0126 -0.0087  
 -0.0135 0.0120 -0.0243 0.0366 -0.0051 0.0154 -0.0250 -0.0139 -0.0115 0.0081 0.0340 0.0008 -0.0360 0.0008 -0.0432  
  
 Columns 3,226 through 3,240  
  
 -0.0113 0.0294 -0.0207 0.0270 0.0015 0.0069 -0.0235 -0.0442 -0.0003 -0.0126 0.0324 0.0304 -0.0237 -0.0106 -0.0105  
 0.0066 0.0080 0.0125 0.0271 -0.0193 -0.0005 0.0056 -0.0422 0.0336 0.0190 -0.0075 0.0242 -0.0029 0.0026 -0.0212  
 0.0333 -0.0292 0.0292 0.0041 -0.0183 -0.0052 0.0215 -0.0140 0.0284 0.0458 -0.0364 -0.0030 0.0102 0.0136 -0.0181  
  
 Columns 3,241 through 3,255  
  
 0.0199 -0.0074 -0.0116 -0.0167 0.0060 0.0026 0.0115 -0.0203 -0.0005 0.0039 -0.0067 0.0242 0.0117 0.0027 0.0260  
 -0.0490 -0.0113 -0.0000 -0.0045 0.0150 -0.0343 0.0240 0.0142 -0.0012 -0.0155 0.0228 0.0061 -0.0167 -0.0173 0.0045  
 -0.0821 0.0043 0.0246 -0.0014 0.0115 -0.0553 0.0197 0.0351 0.0005 -0.0157 0.0341 -0.0094 -0.0245 -0.0424 -0.0276  
  
 Columns 3,256 through 3,270  
  
 -0.0000 -0.0169 0.0224 -0.0165 0.0224 -0.0156 0.0232 -0.0206 -0.0045 0.0208 0.0166 0.0797 0.0305 -0.0253 -0.0465  
 -0.0368 0.0385 -0.0295 -0.0317 0.0302 -0.0112 -0.0005 -0.0112 0.0218 -0.0077 0.0181 0.0355 -0.0002 -0.0039 -0.0186  
 -0.0439 0.0561 -0.0379 -0.0137 0.0132 -0.0134 -0.0155 -0.0021 0.0332 -0.0186 0.0008 -0.0228 -0.0300 0.0136 0.0221  
  
 Columns 3,271 through 3,285  
  
 -0.0240 -0.0053 0.0007 0.0224 -0.0162 -0.0186 0.0125 -0.0051 0.0021 -0.0008 -0.0188 -0.0236 0.0130 -0.0432 0.0522  
 -0.0330 -0.0124 0.0323 -0.0159 -0.0040 -0.0348 -0.0274 -0.0046 0.0245 0.0261 0.0118 -0.0273 0.0079 -0.0067 0.0254  
 -0.0247 -0.0116 0.0431 -0.0493 0.0173 -0.0311 -0.0443 -0.0045 0.0258 0.0282 0.0310 -0.0248 0.0103 0.0225 -0.0204  
  
 Columns 3,286 through 3,300  
  
 0.0107 0.0195 0.0023 -0.0225 0.0450 0.0038 0.0244 -0.0032 -0.0091 0.0056 -0.0174 -0.0153 0.0331 0.0129 -0.0096  
 0.0383 -0.0523 0.0059 -0.0105 0.0012 0.0411 -0.0069 -0.0205 0.0008 -0.0212 -0.0134 0.0186 0.0254 0.0087 0.0131  
 0.0463 -0.0813 0.0104 0.0210 -0.0331 0.0434 -0.0225 -0.0037 0.0072 -0.0455 -0.0011 0.0347 0.0062 -0.0032 0.0413  
  
 Columns 3,301 through 3,315  
  
 -0.0087 -0.0122 -0.0183 0.0008 -0.0435 0.0027 -0.0286 -0.0159 -0.0290 -0.0240 0.0223 -0.0107 -0.0154 -0.0011 -0.0296  
 -0.0087 -0.0000 0.0157 0.0314 -0.0083 -0.0200 -0.0214 -0.0063 0.0146 0.0121 -0.0253 0.0191 -0.0219 0.0127 0.0245  
 -0.0157 0.0180 0.0459 0.0503 0.0201 -0.0290 -0.0035 0.0243 0.0380 0.0487 -0.0596 0.0353 -0.0181 0.0176 0.0480  
  
 Columns 3,316 through 3,330  
  
 -0.0217 -0.0144 0.0109 -0.0018 -0.0192 0.0039 0.0036 -0.0341 -0.0183 -0.0391 0.0248 -0.0192 -0.0065 0.0564 0.0101  
 -0.0025 -0.0051 -0.0092 0.0410 -0.0111 0.0108 0.0011 0.0046 0.0180 -0.0223 0.0074 0.0357 0.0092 -0.0125 -0.0203  
 -0.0022 0.0075 -0.0270 0.0446 0.0005 0.0116 -0.0080 0.0247 0.0500 -0.0129 -0.0165 0.0363 0.0072 -0.0636 -0.0261  
  
 Columns 3,331 through 3,345  
  
 -0.0087 -0.0135 0.0563 0.0086 -0.0163 0.0102 -0.0124 0.0205 -0.0178 -0.0146 -0.0081 -0.0320 0.0046 0.0003 0.0118  
 -0.0286 0.0380 -0.0010 0.0231 0.0111 -0.0335 0.0423 0.0108 0.0382 0.0207 0.0120 -0.0562 0.0045 -0.0099 -0.0278  
 -0.0159 0.0522 -0.0417 0.0176 0.0276 -0.0462 0.0561 -0.0101 0.0573 0.0492 0.0284 -0.0598 0.0036 -0.0228 -0.0367  
  
 Columns 3,346 through 3,360  
  
 -0.0082 0.0084 -0.0015 -0.0297 -0.0057 0.0060 -0.0065 -0.0032 0.0261 0.0061 -0.0284 0.0154 0.0360 -0.0160 0.0193  
 0.0040 0.0133 -0.0130 -0.0039 -0.0184 -0.0010 0.0156 -0.0141 0.0087 -0.0031 -0.0082 0.0296 0.0244 -0.0005 0.0241  
 0.0166 0.0150 -0.0100 0.0136 -0.0067 0.0036 0.0355 -0.0128 -0.0174 -0.0050 0.0296 0.0250 0.0007 0.0034 0.0151  
  
 Columns 3,361 through 3,375  
  
 -0.0136 -0.0179 -0.0233 -0.0143 0.0093 0.0080 0.0240 0.0076 -0.0254 -0.0143 -0.0002 0.0259 0.0019 -0.0242 -0.0121  
 0.0238 0.0264 -0.0244 -0.0035 0.0003 0.0229 -0.0294 -0.0130 0.0242 0.0085 -0.0234 0.0095 -0.0108 -0.0122 -0.0613  
 0.0409 0.0507 -0.0262 0.0165 -0.0065 0.0127 -0.0586 -0.0222 0.0527 0.0142 -0.0366 -0.0028 -0.0204 0.0053 -0.0610  
  
 Columns 3,376 through 3,390  
  
 -0.0037 -0.0061 0.0178 0.0290 -0.0349 0.0131 0.0516 0.0155 -0.0080 -0.0001 0.0010 0.0058 -0.0053 -0.0174 -0.0219  
 -0.0086 0.0035 0.0652 -0.0337 -0.0202 -0.0267 -0.0205 -0.0072 -0.0323 -0.0031 -0.0148 0.0135 0.0037 0.0121 0.0267  
 -0.0048 0.0069 0.0629 -0.0668 0.0073 -0.0587 -0.0736 -0.0162 -0.0177 -0.0037 -0.0201 0.0104 0.0115 0.0201 0.0424  
  
 Columns 3,391 through 3,405  
  
 0.0185 0.0128 -0.0209 0.0031 0.0157 0.0286 0.0226 0.0220 -0.0002 0.0367 -0.0368 -0.0144 -0.0126 -0.0122 -0.0007  
 0.0057 -0.0314 0.0007 0.0251 -0.0004 0.0132 -0.0179 0.0448 0.0194 0.0060 -0.0399 0.0018 -0.0082 -0.0201 -0.0023  
 -0.0096 -0.0504 0.0173 0.0188 -0.0146 -0.0100 -0.0388 0.0372 0.0309 -0.0161 -0.0092 0.0318 0.0169 -0.0179 -0.0109  
  
 Columns 3,406 through 3,420  
  
 -0.0215 -0.0131 0.0035 -0.0284 0.0188 -0.0264 0.0109 0.0171 0.0067 0.0226 0.0065 0.0181 -0.0125 0.0180 0.0280  
 0.0164 -0.0095 0.0109 0.0007 0.0366 0.0037 0.0035 0.0143 0.0031 -0.0096 0.0077 -0.0084 0.0041 0.0207 0.0328  
 0.0376 -0.0091 0.0166 0.0222 0.0008 0.0270 -0.0068 -0.0204 -0.0024 -0.0282 -0.0099 -0.0278 0.0165 0.0057 0.0212  
  
 Columns 3,421 through 3,435  
  
 0.0039 0.0271 -0.0288 0.0466 0.0117 0.0191 -0.0019 -0.0121 -0.0101 0.0197 -0.0269 0.0174 0.0101 0.0113 -0.0190  
 -0.0256 -0.0484 -0.0251 0.0267 0.0086 0.0039 0.0092 0.0171 0.0086 0.0192 -0.0317 0.0043 0.0105 -0.0201 0.0063  
 -0.0227 -0.0761 -0.0071 -0.0267 0.0008 -0.0082 0.0236 0.0253 0.0206 0.0090 0.0057 -0.0052 0.0106 -0.0341 0.0320  
  
 Columns 3,436 through 3,450  
  
 0.0218 0.0209 0.0034 -0.0319 -0.0102 0.0101 0.0014 -0.0137 0.0022 -0.0097 0.0236 0.0370 0.0752 -0.0187 -0.0170  
 -0.0097 0.0096 -0.0144 0.0360 -0.0165 0.0131 0.0479 -0.0078 0.0265 -0.0216 0.0294 -0.0164 0.0021 -0.0237 -0.0112  
 -0.0290 -0.0192 -0.0207 0.0775 -0.0218 -0.0021 0.0481 -0.0033 0.0206 -0.0119 -0.0017 -0.0453 -0.0696 -0.0221 0.0179  
  
 Columns 3,451 through 3,465  
  
 0.0110 0.0079 -0.0139 0.0399 0.0072 0.0008 -0.0096 -0.0117 0.0306 0.0106 0.0307 0.0069 0.0093 0.0010 -0.0217  
 -0.0107 0.0234 -0.0250 0.0058 0.0178 0.0063 0.0127 -0.0086 0.0042 0.0120 -0.0039 0.0392 -0.0187 0.0066 0.0042  
 -0.0059 0.0259 -0.0080 -0.0010 0.0055 0.0118 0.0273 0.0128 -0.0183 0.0071 -0.0418 0.0353 -0.0340 0.0152 0.0134  
  
 Columns 3,466 through 3,480  
  
 -0.0243 -0.0337 -0.0338 0.0379 -0.0020 0.0241 0.0002 0.0159 0.0250 0.0064 0.0211 0.0059 -0.0128 -0.0079 0.0042  
 0.0146 -0.0467 -0.0119 -0.0161 -0.0016 0.0087 0.0240 0.0268 0.0211 0.0012 0.0218 0.0071 -0.0177 0.0096 -0.0272  
 0.0342 -0.0197 0.0179 -0.0564 -0.0008 -0.0172 0.0388 0.0145 0.0082 -0.0104 0.0033 -0.0003 0.0043 0.0249 -0.0251  
  
 Columns 3,481 through 3,495  
  
 -0.0013 0.0452 0.0060 0.0027 0.0117 -0.0161 0.0282 0.0218 -0.0083 -0.0202 -0.0265 -0.0326 0.0106 -0.0093 0.0161  
 0.0159 -0.0602 -0.0178 0.0117 0.0192 0.0281 0.0078 0.0075 -0.0110 -0.0204 0.0126 -0.0096 -0.0001 -0.0090 -0.0258  
 0.0107 -0.1229 -0.0305 0.0188 0.0275 0.0341 -0.0138 0.0055 -0.0256 0.0039 0.0407 0.0083 -0.0028 0.0039 -0.0436  
  
 Columns 3,496 through 3,510

-0.0311 -0.0241 0.0023 -0.0035 0.0011 -0.0153 0.0070 -0.0024 0.0289 0.0217 0.0031 0.0122 -0.0145 0.0164 -0.0292  
 -0.0408 -0.0171 0.0102 -0.0052 0.0318 -0.0210 0.0363 -0.0115 0.0172 0.0238 0.0142 -0.0129 0.0158 -0.0278 -0.0511  
 -0.0125 -0.0015 0.0025 0.0075 0.0303 -0.0088 0.0223 -0.0065 0.0034 -0.0032 0.0004 -0.0227 0.0311 -0.0494 -0.0384  
  
 Columns 3,511 through 3,525  
  
 0.0164 -0.0189 -0.0156 0.0037 0.0376 0.0277 0.0119 -0.0157 0.0078 0.0296 -0.0302 0.0103 0.0030 0.0215 -0.0092  
 0.0113 -0.0326 -0.0571 -0.0004 0.0413 0.0293 -0.0228 0.0107 0.0252 0.0289 0.0193 0.0403 0.0379 -0.0185 -0.0045  
 -0.0073 -0.0113 -0.0554 -0.0033 0.0171 0.0063 -0.0272 0.0363 0.0264 0.0085 0.0373 0.0382 0.0554 -0.0297 -0.0007  
  
 Columns 3,526 through 3,540  
  
 0.0377 0.0071 0.0019 -0.0296 -0.0210 -0.0191 0.0017 -0.0165 -0.0191 -0.0373 -0.0345 -0.0025 0.0106 0.0242 0.0111  
 -0.0186 0.0154 0.0512 -0.0593 0.0200 -0.0158 -0.0043 -0.0197 0.0226 -0.0067 -0.0050 0.0212 0.0280 -0.0202 -0.0183  
 -0.0470 -0.0013 0.0653 -0.0486 0.0442 -0.0056 -0.0007 -0.0050 0.0387 0.0160 0.0270 0.0364 0.0249 -0.0469 -0.0317  
  
 Columns 3,541 through 3,555  
  
 0.0228 0.0196 -0.0204 0.0153 -0.0313 0.0430 0.0055 0.0115 0.0234 -0.0139 0.0001 -0.0317 0.0200 0.0296 -0.0227  
 0.0202 0.0403 0.0344 -0.0055 -0.0448 -0.0344 -0.0193 0.0327 0.0009 0.0123 -0.0023 -0.0513 0.0318 0.0466 -0.0113  
 0.0036 0.0290 0.0640 -0.0241 -0.0313 -0.0643 -0.0254 0.0310 -0.0104 0.0327 -0.0090 -0.0263 0.0184 0.0227 0.0010  
  
 Columns 3,556 through 3,570  
  
 -0.0499 -0.0411 -0.0474 -0.0200 -0.0539 -0.0207 0.0022 -0.0052 0.0008 0.0139 -0.0021 0.0061 0.0099 -0.0325 -0.0122  
 0.0085 -0.0294 -0.0136 0.0360 0.0066 -0.0072 -0.0248 -0.0012 -0.0218 0.0095 0.0396 0.0188 0.0230 -0.0082 0.0054  
 0.0468 -0.0024 0.0080 0.0491 0.0406 0.0205 -0.0311 0.0017 -0.0396 0.0065 0.0556 0.0271 0.0026 0.0171 0.0256  
  
 Columns 3,571 through 3,585  
  
 -0.0262 0.0016 -0.0138 -0.0209 -0.0011 0.0026 -0.0000 0.0346 -0.0080 0.0146 0.0075 0.0155 -0.0044 0.0151 -0.0156  
 0.0135 0.0166 0.0016 -0.0427 -0.0125 0.0138 0.0035 -0.0226 -0.0080 0.0122 -0.0310 -0.0119 0.0281 -0.0480 -0.0029  
 0.0372 0.0230 0.0212 -0.0323 -0.0014 0.0125 -0.0039 -0.0502 -0.0105 -0.0008 -0.0458 -0.0192 0.0364 -0.0757 0.0008  
  
 Columns 3,586 through 3,600  
  
 0.0140 0.0620 0.0512 -0.0080 0.0301 -0.0179 -0.0056 0.0091 -0.0094 0.0039 0.0029 -0.0247 -0.0102 -0.0069 0.0326  
 0.0274 -0.0091 -0.0007 -0.0137 0.0231 -0.0130 -0.0334 0.0105 0.0192 0.0079 0.0168 -0.0319 -0.0275 -0.0153 0.0071  
 0.0209 -0.0440 -0.0500 0.0043 0.0142 0.0003 -0.0279 -0.0006 0.0357 0.0245 0.0200 -0.0118 -0.0199 -0.0003 -0.0162  
  
 Columns 3,601 through 3,615  
  
 -0.0253 0.0301 0.0041 -0.0107 0.0142 0.0070 -0.0130 0.0109 0.0025 -0.0178 -0.0020 -0.0330 -0.0025 0.0070 -0.0044  
 -0.0142 0.0336 -0.0072 0.0130 0.0165 0.0240 0.0024 0.0233 -0.0053 0.0206 0.0128 -0.0375 0.0163 0.0105 0.0425  
 0.0074 -0.0015 -0.0170 0.0254 0.0073 0.0334 0.0138 0.0106 0.0105 0.0260 0.0137 -0.0188 0.0127 -0.0100 0.0547  
  
 Columns 3,616 through 3,630  
  
 -0.0299 0.0123 -0.0388 0.0115 0.0356 -0.0230 0.0411 0.0217 0.0128 -0.0351 -0.0308 0.0321 0.0062 0.0022 -0.0226  
 -0.0235 0.0295 -0.0041 -0.0407 0.0025 0.0066 0.0337 -0.0290 0.0028 -0.0247 0.0352 -0.0028 0.0195 -0.0027 0.0125  
 -0.0086 0.0136 0.0252 -0.0633 -0.0149 0.0174 -0.0101 -0.0558 -0.0050 -0.0009 0.0632 -0.0196 0.0059 0.0049 0.0320  
  
 Columns 3,631 through 3,645  
  
 -0.0485 -0.0024 -0.0363 0.0103 0.0182 -0.0161 -0.0020 0.0268 -0.0339 -0.0182 -0.0153 -0.0404 0.0181 0.0328 0.0364  
 -0.0235 0.0347 -0.0645 0.0083 0.0067 -0.0301 -0.0163 0.0229 -0.0312 0.0098 -0.0642 -0.0547 0.0064 0.0283 -0.0230  
 0.0284 0.0415 -0.0482 -0.0003 -0.0132 -0.0274 -0.0109 0.0067 -0.0076 0.0385 -0.0561 -0.0269 -0.0043 0.0012 -0.0490  
  
 Columns 3,646 through 3,660  
  
 -0.0097 0.0034 0.0014 -0.0334 -0.0200 -0.0138 0.0305 0.0099 -0.0070 -0.0313 0.0082 0.0226 -0.0487 -0.0166 0.0003  
 0.0123 0.0064 -0.0015 -0.0120 0.0352 -0.0299 0.0060 0.0035 -0.0050 -0.0003 0.0177 -0.0142 -0.0498 -0.0184 0.0054  
 0.0205 -0.0006 0.0075 0.0098 0.0462 -0.0177 -0.0282 -0.0071 -0.0095 0.0309 0.0215 -0.0459 -0.0167 -0.0084 0.0057  
  
 Columns 3,661 through 3,675  
  
 0.0107 -0.0146 0.0204 -0.0399 0.0134 0.0192 0.0184 -0.0011 0.0000 0.0101 0.0197 -0.0180 0.0075 -0.0112 0.0086  
 0.0062 0.0221 0.0483 -0.0292 0.0235 0.0023 -0.0097 -0.0214 -0.0016 0.0162 0.0140 -0.0390 0.0102 -0.0006 0.0416  
 -0.0036 0.0465 0.0312 0.0150 0.0198 -0.0173 -0.0369 -0.0278 -0.0006 0.0085 -0.0004 -0.0276 -0.0054 0.0050 0.0362  
  
 Columns 3,676 through 3,690  
  
 -0.0106 0.0399 -0.0257 0.0067 0.0185 -0.0309 -0.0305 0.0134 -0.0130 0.0231 0.0324 -0.0287 -0.0129 0.0003 0.0081  
 -0.0204 -0.0062 -0.0418 -0.0140 0.0215 -0.0202 -0.0063 -0.0010 -0.0120 0.0196 0.0002 -0.0148 0.0151 -0.0280 0.0098  
 -0.0076 -0.0376 -0.0224 -0.0348 0.0043 0.0003 0.0285 -0.0095 -0.0077 -0.0045 -0.0323 0.0089 0.0302 -0.0287 -0.0007  
  
 Columns 3,691 through 3,705  
  
 0.0326 0.0055 -0.0227 0.0028 -0.0111 -0.0018 0.0297 0.0527 -0.0263 0.0128 -0.0667 -0.0108 -0.0111 0.0009 0.0136  
 0.0034 0.0376 -0.0057 0.0066 0.0028 -0.0217 0.0205 -0.0268 -0.0445 -0.0092 0.0172 0.0061 -0.0232 0.0002 -0.0145  
 -0.0217 0.0263 0.0245 0.0017 0.0143 -0.0198 -0.0065 -0.0614 -0.0233 -0.0047 0.0746 0.0030 -0.0101 0.0032 -0.0275  
  
 Columns 3,706 through 3,720  
  
 0.0194 0.0284 -0.0058 0.0008 0.0376 -0.0051 0.0087 0.0034 0.0230 0.0154 -0.0111 0.0030 0.0035 -0.0476 -0.0309  
 0.0077 0.0506 -0.0031 0.0290 0.0086 -0.0218 0.0074 0.0155 -0.0090 -0.0384 -0.0238 -0.0302 -0.0199 -0.0262 0.0036  
 -0.0088 0.0303 0.0173 0.0177 -0.0109 -0.0253 -0.0063 0.0132 -0.0467 -0.0626 -0.0226 -0.0458 -0.0329 0.0111 0.0295  
  
 Columns 3,721 through 3,735  
  
 0.0008 0.0176 -0.0001 -0.0267 -0.0139 0.0066 0.0125 -0.0276 0.0034 0.0289 0.0418 0.0200 -0.0046 -0.0148 0.0033  
 0.0168 -0.0118 -0.0079 0.0333 -0.0138 0.0065 0.0021 -0.0283 -0.0177 0.0172 0.0019 -0.0064 0.0018 -0.0030 0.0061  
 0.0123 -0.0361 -0.0269 0.0779 -0.0164 0.0119 0.0027 -0.0055 -0.0332 0.0023 -0.0341 -0.0372 0.0072 -0.0048 0.0216  
  
 Columns 3,736 through 3,750  
  
 0.0170 -0.0231 0.0011 -0.0562 -0.0098 0.0094 0.0069 -0.0000 0.0247 -0.0416 -0.0311 0.0145 -0.0291 -0.0283 0.0234  
 0.0042 -0.0090 0.0086 -0.0117 -0.0475 0.0149 0.0181 0.0015 0.0141 -0.0126 -0.0406 0.0262 0.0004 -0.0252 -0.0253  
 -0.0061 0.0002 0.0237 0.0272 -0.0492 0.0112 0.0199 0.0030 0.0106 0.0253 -0.0156 0.0157 0.0171 -0.0001 -0.0441  
  
 Columns 3,751 through 3,765  
  
 0.0173 0.0071 -0.0116 0.0104 0.0011 0.0129 0.0115 0.0124 -0.0093 0.0101 0.0044 0.0249 -0.0179 -0.0046 0.0155  
 -0.0121 0.0139 0.0099 0.0237 0.0146 0.0524 -0.0422 0.0041 -0.0034 -0.0090 0.0105 -0.0098 0.0106 -0.0179 -0.0297  
 -0.0337 0.0069 0.0146 0.0261 0.0125 0.0563 -0.0615 -0.0136 0.0036 -0.0130 0.0021 -0.0444 0.0148 -0.0102 -0.0578  
  
 Columns 3,766 through 3,780  
  
 0.0126 0.0098 -0.0080 0.0203 0.0098 0.0236 0.0336 0.0031 0.0073 0.0229 0.0363 0.0166 -0.0125 -0.0244 0.0686  
 0.0173 -0.0087 0.0108 -0.0028 0.0190 0.0160 -0.0106 -0.0085 0.0054 0.0551 0.0160 -0.0113 -0.0205 0.0278 -0.0235  
 0.0132 -0.0093 0.0272 -0.0177 0.0061 -0.0005 -0.0465 -0.0072 0.0117 0.0389 -0.0032 -0.0351 -0.0245 0.0493 -0.0806  
  
 Columns 3,781 through 3,795  
  
 0.0594 -0.0120 0.0010 -0.0181 -0.0219 -0.0219 -0.0068 0.0009 -0.0055 -0.0222 0.0103 0.0199 -0.0164 -0.0203 0.0099  
 0.0362 -0.0056 -0.0191 -0.0057 -0.0171 0.0174 -0.0077 -0.0141 0.0022 -0.0010 0.0157 -0.0220 -0.0052 0.0049 0.0125  
 -0.0095 0.0154 -0.0336 -0.0070 0.0067 0.0482 -0.0071 -0.0008 0.0060 0.0086 0.0083 -0.0524 0.0062 0.0175 0.0044  
  
 Columns 3,796 through 3,810  
  
 0.0208 0.0278 0.0140 0.0013 0.0111 -0.0272 0.0007 0.0108 -0.0213 0.0074 -0.0254 -0.0074 -0.0158 -0.0221 -0.0049  
 0.0014 -0.0273 0.0087 -0.0044 0.0338 -0.0253 0.0006 0.0115 -0.0174 0.0543 -0.0094 -0.0378 0.0190 -0.0471 0.0290  
 -0.0100 -0.0566 -0.0022 -0.0164 0.0262 0.0079 0.0077 0.0034 -0.0114 0.0602 0.0141 -0.0203 0.0391 -0.0438 0.0364  
  
 Columns 3,811 through 3,825  
  
 -0.0047 -0.0120 0.0336 0.0009 0.0161 -0.0101 0.0083 0.0245 -0.0185 0.0042 0.0085 0.0033 0.0388 -0.0165 0.0021  
 0.0249 -0.0172 -0.0177 0.0419 0.0034 -0.0215 -0.0155 0.0069 0.0298 0.0351 0.0091 0.0134 0.0165 -0.0263 0.0020  
 0.0463 -0.0154 -0.0492 0.0453 -0.0156 -0.0230 -0.0253 -0.0071 0.0527 0.0274 0.0091 0.0149 -0.0124 -0.0027 -0.0010  
  
 Columns 3,826 through 3,840  
  
 -0.0131 0.0020 -0.0248 0.0068 0.0430 0.0050 0.0085 0.0282 -0.0431 -0.0071 -0.0179 0.0432 0.0312 -0.0433 0.0006  
 -0.0070 -0.0012 -0.0050 -0.0667 -0.0065 0.0100 -0.0019 -0.0067 -0.0270 -0.0101 -0.0154 -0.0053 -0.0076 -0.0000 0.0018  
 0.0092 0.0043 0.0177 -0.0816 -0.0412 -0.0004 -0.0148 -0.0312 -0.0040 0.0089 0.0012 -0.0419 -0.0426 0.0314 0.0035  
  
 Columns 3,841 through 3,855  
  
 -0.0170 -0.0066 0.0320 0.0182 -0.0047 -0.0623 0.0154 0.0136 0.0281 -0.0412 -0.0258 0.0109 0.0091 0.0119 -0.0058  
 -0.0080 -0.0304 0.0172 0.0218 0.0014 -0.0037 0.0085 0.0364 -0.0002 0.0097 0.0022 -0.0139 0.0543 -0.0339 -0.0221  
 0.0025 -0.0373 -0.0174 0.0207 -0.0040 0.0504 -0.0148 0.0287 -0.0197 0.0497 0.0164 -0.0384 0.0607 -0.0599 -0.0285  
  
 Columns 3,856 through 3,870  
  
 -0.0696 -0.0087 0.0267 -0.0106 0.0198 0.0230 0.0125 -0.0180 -0.0137 0.0019 0.0312 0.0072 -0.0297 0.0263 0.0114  
 -0.0067 -0.0013 0.0004 -0.0155 0.0229 0.0012 -0.0226 0.0190 0.0204 0.0305 0.0046 0.0306 0.0246 -0.0235 -0.0234  
 0.0546 0.0055 -0.0213 -0.0108 0.0093 -0.0194 -0.0414 0.0214 0.0360 0.0291 -0.0215 0.0152 0.0604 -0.0368 -0.0326  
  
 Columns 3,871 through 3,885  
  
 -0.0114 0.0285 0.0006 -0.0062 0.0173 -0.0233 0.0014 -0.0192 -0.0196 -0.0091 0.0052 0.0227 -0.0161 0.0136 -0.0404  
 0.0257 -0.0006 0.0119 0.0067 0.0371 0.0041 0.0068 0.0330 -0.0130 -0.0138 -0.0241 -0.0155 -0.0039 -0.0148 -0.0442  
 0.0510 -0.0274 0.0261 -0.0021 0.0225 0.0235 0.0096 0.0396 -0.0062 -0.0095 -0.0413 -0.0389 0.0067 -0.0257 -0.0104  
  
 Columns 3,886 through 3,900  
  
 -0.0030 -0.0109 -0.0356 0.0120 -0.0094 -0.0007 -0.0283 -0.0087 -0.0376 0.0004 0.0387 -0.0214 -0.0230 -0.0055 0.0117  
 -0.0350 0.0056 0.0243 0.0354 0.0446 -0.0265 0.0302 -0.0019 -0.0235 -0.0155 0.0241 -0.0089 -0.0353 0.0305 0.0239  
 -0.0410 0.0133 0.0622 0.0345 0.0518 -0.0303 0.0611 0.0033 -0.0001 -0.0227 -0.0084 -0.0095 -0.0111 0.0457 0.0194  
  
 Columns 3,901 through 3,915  
  
 0.0038 0.0255 -0.0199 0.0133 -0.0044 0.0183 0.0089 -0.0377 -0.0053 0.0004 0.0192 0.0237 -0.0143 -0.0400 -0.0107  
 -0.0010 -0.0131 -0.0213 -0.0280 0.0013 -0.0125 0.0043 -0.0013 -0.0089 -0.0257 0.0016 -0.0123 -0.0231 0.0080 -0.0476  
 -0.0011 -0.0319 -0.0071 -0.0444 0.0080 -0.0353 0.0061 0.0305 -0.0065 -0.0175 -0.0039 -0.0377 0.0029 0.0381 -0.0406  
  
 Columns 3,916 through 3,930  
  
 -0.0088 -0.0090 0.0192 -0.0166 -0.0175 0.0398 -0.0115 0.0198 0.0115 0.0158 0.0092 -0.0205 0.0207 -0.0166 0.0105  
 0.0075 -0.0083 -0.0163 -0.0008 -0.0090 0.0104 -0.0070 0.0250 0.0295 0.0122 0.0134 0.0136 0.0165 -0.0001 0.0192  
 0.0153 -0.0018 -0.0444 0.0018 0.0057 -0.0145 0.0152 0.0075 0.0274 -0.0053 0.0067 0.0331 -0.0017 0.0086 0.0152  
  
 Columns 3,931 through 3,945  
  
 -0.0206 -0.0025 -0.0185 -0.0309 -0.0018 0.0241 -0.0099 -0.0165 -0.0044 -0.0156 0.0014 0.0707 0.0176 0.0096 0.0072  
 -0.0307 -0.0103 0.0172 -0.0148 -0.0005 -0.0186 0.0165 0.0208 0.0209 -0.0104 0.0198 0.0083 0.0155 -0.0124 0.0072  
 -0.0263 -0.0188 0.0418 0.0159 0.0007 -0.0576 0.0177 0.0485 0.0241 -0.0177 0.0178 -0.0522 0.0110 -0.0218 -0.0007  
  
 Columns 3,946 through 3,960  
  
 -0.0058 0.0350 0.0208 -0.0255 0.0088 0.0191 -0.0231 0.0091 -0.0223 0.0130 0.0112 -0.0098 0.0308 -0.0259 -0.0364  
 0.0551 0.0090 -0.0121 0.0038 -0.0368 0.0321 -0.0260 0.0141 -0.0025 0.0164 -0.0095 -0.0036 0.0336 0.0004 0.0124  
 0.0539 -0.0189 -0.0441 0.0158 -0.0508 0.0223 -0.0117 0.0077 0.0116 0.0212 -0.0156 -0.0059 0.0137 0.0129 0.0329  
  
 Columns 3,961 through 3,975  
  
 -0.0081 -0.0127 0.0039 0.0443 -0.0020 -0.0003 -0.0137 0.0031 0.0401 0.0289 0.0111 0.0149 0.0043 0.0235 0.0328  
 -0.0221 -0.0048 -0.0376 0.0132 -0.0014 0.0092 0.0248 -0.0153 0.0332 0.0007 -0.0224 -0.0051 -0.0329 0.0379 -0.0390  
 -0.0081 0.0027 -0.0517 -0.0202 -0.0118 0.0343 0.0373 -0.0240 0.0137 -0.0204 -0.0407 -0.0103 -0.0408 0.0215 -0.0613  
  
 Columns 3,976 through 3,990  
  
 0.0013 -0.0045 0.0110 0.0358 0.0428 -0.0188 0.0053 0.0299 -0.0406 -0.0305 -0.0160 0.0031 0.0062 -0.0332 0.0265  
 -0.0262 -0.0404 -0.0198 -0.0578 0.0218 -0.0097 -0.0230 -0.0190 -0.0189 -0.0140 -0.0443 0.0110 0.0015 0.0022 0.0210  
 -0.0276 -0.0361 -0.0234 -0.0950 -0.0114 -0.0013 -0.0303 -0.0416 0.0295 0.0081 -0.0316 0.0106 -0.0013 0.0445 0.0023  
  
 Columns 3,991 through 4,005  
  
 -0.0310 -0.0154 -0.0126 -0.0030 -0.0465 -0.0272 0.0185 -0.0206 -0.0184 0.0128 -0.0072 -0.0129 -0.0032 -0.0313 0.0274  
 -0.0072 -0.0118 0.0003 -0.0075 -0.0228 0.0173 0.0120 -0.0128 -0.0275 -0.0144 0.0017 0.0081 -0.0151 0.0057 -0.0149

0.0096 -0.0012 0.0126 -0.0092 0.0135 0.0394 -0.0187 -0.0064 -0.0158 -0.0179 0.0055 0.0344 -0.0106 0.0400 -0.0331  
  
 Columns 4,006 through 4,020  
  
 -0.0018 0.0165 -0.0096 -0.0126 -0.0185 -0.0070 -0.0057 -0.0190 -0.0152 -0.0273 0.0339 0.0038 0.0412 -0.0370 0.0055  
 -0.0042 -0.0210 -0.0497 -0.0085 -0.0195 0.0361 0.0286 -0.0172 -0.0078 -0.0153 -0.0054 0.0141 -0.0047 0.0255 0.0238  
 -0.0135 -0.0263 -0.0402 -0.0002 -0.0005 0.0483 0.0351 -0.0031 0.0193 0.0011 -0.0384 -0.0036 -0.0436 0.0635 0.0170  
  
 Columns 4,021 through 4,035  
  
 0.0097 0.0261 -0.0008 -0.0056 0.0547 -0.0401 0.0333 0.0306 -0.0009 0.0229 0.0447 -0.0070 0.0168 0.0178 0.0218  
 0.0590 -0.0174 -0.0260 0.0475 0.0181 -0.0416 0.0050 0.0157 0.0004 -0.0149 -0.0327 0.0379 -0.0034 -0.0035 0.0202  
 0.0573 -0.0532 -0.0416 0.0666 -0.0037 -0.0063 -0.0249 -0.0093 0.0091 -0.0456 -0.0826 0.0480 -0.0275 -0.0136 0.0104  
  
 Columns 4,036 through 4,050  
  
 -0.0095 -0.0140 0.0129 -0.0108 0.0318 0.0176 -0.0054 0.0002 0.0178 -0.0097 0.0510 0.0437 0.0027 0.0365 0.0147  
 0.0323 -0.0322 0.0186 -0.0169 0.0238 0.0085 -0.0268 -0.0096 0.0127 0.0351 0.0009 0.0130 0.0223 0.0109 -0.0153  
 0.0573 -0.0291 0.0197 -0.0132 -0.0176 -0.0039 -0.0255 -0.0173 -0.0015 0.0374 -0.0501 -0.0294 0.0176 -0.0249 -0.0277  
  
 Columns 4,051 through 4,065  
  
 0.0065 0.0210 -0.0119 0.0113 -0.0194 -0.0027 -0.0169 -0.0483 -0.0123 -0.0232 0.0061 -0.0043 -0.0140 -0.0318 0.0215  
 -0.0068 0.0007 0.0080 0.0439 -0.0037 0.0154 -0.0091 -0.0286 -0.0115 0.0488 0.0100 0.0212 -0.0186 -0.0180 0.0033  
 -0.0169 -0.0062 0.0137 0.0453 0.0125 0.0122 0.0129 -0.0121 -0.0071 0.0879 0.0080 0.0312 -0.0163 0.0086 -0.0229  
  
 Columns 4,066 through 4,080  
  
 0.0090 0.0060 -0.0005 -0.0093 -0.0063 0.0067 0.0178 0.0256 -0.0292 0.0402 -0.0104 -0.0058 -0.0050 0.0200 -0.0075  
 -0.0257 -0.0278 -0.0093 0.0193 -0.0242 -0.0060 -0.0250 -0.0486 -0.0135 0.0322 -0.0109 -0.0277 -0.0157 0.0057 -0.0112  
 -0.0438 -0.0341 -0.0119 0.0155 -0.0342 -0.0232 -0.0558 -0.0813 0.0022 -0.0100 -0.0047 -0.0263 -0.0063 -0.0159 -0.0063  
  
 Columns 4,081 through 4,095  
  
 -0.0195 -0.0171 0.0343 -0.0322 -0.0146 -0.0174 0.0025 0.0117 -0.0075 -0.0257 -0.0051 -0.0120 -0.0241 0.0264 0.0376  
 0.0005 -0.0061 -0.0201 -0.0036 0.0214 0.0072 0.0291 0.0129 0.0265 0.0236 0.0431 -0.0088 -0.0154 0.0085 0.0204  
 0.0007 0.0106 -0.0323 0.0339 0.0430 0.0110 0.0297 -0.0062 0.0387 0.0346 0.0603 -0.0092 0.0029 -0.0038 -0.0112  
  
 Columns 4,096 through 4,110  
  
 0.0089 -0.0138 -0.0224 0.0309 0.0105 0.0170 0.0165 -0.0322 -0.0020 -0.0225 0.0212 -0.0068 -0.0008 0.0505 -0.0138  
 0.0128 0.0110 0.0212 -0.0090 -0.0039 0.0159 -0.0023 0.0171 -0.0068 0.0086 0.0098 0.0221 -0.0523 0.0166 0.0094  
 -0.0078 0.0408 0.0342 -0.0341 -0.0089 0.0228 -0.0077 0.0489 -0.0078 0.0021 -0.0014 0.0133 -0.0547 -0.0246 0.0268  
  
 Columns 4,111 through 4,125  
  
 0.0061 -0.0390 -0.0303 0.0213 -0.0028 0.0149 0.0225 0.0031 0.0211 0.0135 -0.0029 0.0307 0.0168 -0.0360 -0.0147  
 0.0418 -0.0005 0.0285 0.0362 -0.0040 -0.0308 0.0189 -0.0206 -0.0116 -0.0210 0.0022 0.0166 -0.0008 -0.0047 -0.0129  
 0.0385 0.0327 0.0514 0.0127 0.0073 -0.0524 -0.0020 -0.0279 -0.0412 -0.0440 0.0052 -0.0096 -0.0328 0.0239 0.0081  
  
 Columns 4,126 through 4,140  
  
 -0.0298 -0.0058 0.0097 -0.0370 -0.0271 0.0092 -0.0374 0.0227 0.0353 0.0066 0.0132 -0.0181 -0.0291 0.0117 -0.0271  
 -0.0240 0.0108 -0.0359 -0.0341 -0.0251 -0.0079 0.0134 0.0370 0.0030 -0.0268 -0.0065 0.0015 0.0060 -0.0119 -0.0080  
 -0.0012 0.0214 -0.0373 -0.0075 0.0086 -0.0183 0.0543 0.0034 -0.0291 -0.0386 -0.0170 0.0118 0.0205 -0.0262 0.0111  
  
 Columns 4,141 through 4,155  
  
 -0.0106 0.0246 -0.0030 -0.0196 0.0160 0.0127 -0.0172 -0.0369 0.0071 -0.0237 -0.0029 0.0132 0.0198 0.0192 0.0304  
 0.0274 -0.0002 0.0104 -0.0046 -0.0124 0.0230 -0.0079 0.0064 -0.0208 -0.0180 0.0129 0.0169 0.0019 -0.0210 -0.0048  
 0.0415 -0.0295 0.0222 0.0172 -0.0329 0.0118 0.0123 0.0507 -0.0278 -0.0246 0.0235 0.0117 -0.0155 -0.0462 -0.0383  
  
 Columns 4,156 through 4,170  
  
 -0.0418 -0.0038 -0.0095 -0.0154 0.0141 -0.0183 -0.0267 0.0175 -0.0058 -0.0104 0.0125 0.0121 -0.0024 0.0141 -0.0132  
 -0.0299 -0.0024 0.0435 0.0252 0.0156 0.0013 0.0141 -0.0075 0.0204 0.0173 -0.0021 0.0081 0.0051 -0.0194 -0.0233  
 0.0079 0.0059 0.0499 0.0320 -0.0004 0.0121 0.0381 -0.0403 0.0277 0.0206 0.0040 0.0079 0.0131 -0.0417 -0.0132  
  
 Columns 4,171 through 4,185  
  
 -0.0092 0.0173 0.0045 0.0174 0.0182 0.0086 0.0113 0.0209 0.0289 0.0175 -0.0568 -0.0481 0.0072 0.0312 -0.0025  
 0.0205 0.0236 -0.0040 -0.0146 0.0173 0.0038 -0.0217 -0.0154 -0.0206 0.0188 0.0276 -0.0362 0.0228 0.0084 -0.0194  
 0.0244 0.0164 0.0058 -0.0253 0.0078 0.0129 -0.0305 -0.0466 -0.0529 0.0029 0.0653 0.0102 0.0214 -0.0230 -0.0193  
  
 Columns 4,186 through 4,200  
  
 -0.0169 -0.0402 -0.0296 0.0063 0.0159 0.0361 0.0137 -0.0212 0.0110 0.0008 0.0226 -0.0287 0.0174 -0.0187 0.0233  
 0.0164 -0.0063 -0.0329 -0.0245 0.0034 0.0345 0.0111 0.0155 0.0280 -0.0434 -0.0012 -0.0227 -0.0024 0.0176 -0.0105  
 0.0304 0.0456 0.0020 -0.0326 -0.0208 0.0245 -0.0117 0.0423 0.0194 -0.0470 -0.0189 -0.0094 -0.0210 0.0322 -0.0307  
  
 Columns 4,201 through 4,215  
  
 0.0059 0.0199 -0.0210 0.0253 0.0001 0.0162 0.0057 -0.0063 -0.0085 -0.0377 -0.0400 0.0022 -0.0214 -0.0156 -0.0430  
 0.0167 -0.0285 -0.0246 0.0296 -0.0497 0.0246 -0.0067 -0.0057 -0.0435 -0.0036 -0.0139 0.0205 0.0061 -0.0134 -0.0234  
 0.0223 -0.0383 -0.0097 0.0148 -0.0643 0.0044 -0.0093 -0.0158 -0.0547 0.0152 0.0122 0.0134 0.0447 0.0037 0.0114  
  
 Columns 4,216 through 4,230  
  
 0.0264 0.0131 -0.0074 -0.0217 -0.0381 0.0007 -0.0340 0.0078 -0.0030 -0.0288 0.0082 0.0102 -0.0205 -0.0003 0.0043  
 0.0460 -0.0037 -0.0211 0.0109 -0.0104 0.0004 -0.0162 0.0194 -0.0269 -0.0136 0.0057 -0.0022 -0.0007 -0.0009 -0.0437  
 0.0257 -0.0139 -0.0022 0.0244 0.0168 0.0073 -0.0089 0.0129 -0.0380 -0.0006 0.0094 -0.0029 0.0094 -0.0161 -0.0641  
  
 Columns 4,231 through 4,245  
  
 -0.0079 -0.0243 0.0213 0.0185 0.0392 -0.0071 -0.0171 -0.0018 -0.0107 0.0309 0.0051 -0.0096 -0.0201 -0.0118 -0.0111  
 0.0279 -0.0155 -0.0190 -0.0287 -0.0063 0.0053 -0.0056 -0.0076 0.0178 0.0491 0.0207 -0.0132 0.0083 0.0075 -0.0248  
 0.0413 -0.0098 -0.0545 -0.0437 -0.0467 0.0191 0.0038 -0.0045 0.0276 0.0357 0.0111 -0.0123 0.0300 0.0186 -0.0259  
  
 Columns 4,246 through 4,260  
  
 -0.0245 0.0010 0.0257 -0.0310 -0.0188 0.0018 0.0313 0.0213 -0.0326 -0.0221 -0.0070 -0.0033 0.0006 -0.0261 -0.0143  
 -0.0022 -0.0119 0.0151 0.0199 -0.0162 -0.0352 0.0371 0.0242 -0.0250 -0.0248 0.0226 -0.0062 0.0082 0.0082 -0.0119  
 0.0205 -0.0128 0.0032 0.0382 -0.0098 -0.0574 0.0151 0.0095 -0.0068 -0.0127 0.0238 -0.0098 0.0121 0.0354 0.0033  
  
 Columns 4,261 through 4,275  
  
 0.0207 -0.0081 -0.0056 0.0266 -0.0184 0.0021 -0.0182 0.0187 -0.0034 -0.0418 0.0234 0.0089 -0.0349 -0.0212 0.0252  
 0.0319 0.0358 -0.0451 0.0230 0.0234 -0.0069 0.0125 0.0173 -0.0237 0.0128 0.0163 -0.0017 -0.0106 -0.0061 0.0242  
 0.0210 0.0321 -0.0344 0.0154 0.0461 0.0002 0.0415 0.0125 -0.0319 0.0531 -0.0155 -0.0168 0.0063 0.0201 0.0006  
  
 Columns 4,276 through 4,290  
  
 0.0155 -0.0101 -0.0268 -0.0380 -0.0013 0.0017 -0.0249 -0.0080 0.0365 -0.0103 -0.0003 0.0205 0.0219 -0.0000 -0.0211  
 0.0302 0.0150 0.0238 -0.0285 0.0020 -0.0128 -0.0031 -0.0188 0.0276 -0.0265 -0.0214 -0.0347 0.0394 0.0027 0.0125  
 0.0467 0.0312 0.0506 -0.0129 0.0092 -0.0290 0.0232 -0.0039 0.0089 -0.0135 -0.0363 -0.0614 0.0306 0.0037 0.0364  
  
 Columns 4,291 through 4,305  
  
 0.0107 -0.0123 -0.0129 0.0175 0.0199 0.0061 0.0046 0.0210 0.0315 0.0102 0.0246 -0.0332 -0.0093 -0.0092 0.0083  
 0.0010 0.0222 -0.0140 0.0172 0.0373 -0.0112 -0.0012 -0.0005 0.0520 -0.0167 -0.0206 0.0025 -0.0434 -0.0206 0.0075  
 -0.0035 0.0247 -0.0070 -0.0063 0.0313 -0.0180 -0.0158 -0.0246 0.0296 -0.0235 -0.0337 0.0319 -0.0578 -0.0200 -0.0000  
  
 Columns 4,306 through 4,320  
  
 -0.0377 -0.0181 -0.0043 -0.0122 0.0105 -0.0452 -0.0244 -0.0034 0.0190 0.0322 -0.0283 -0.0008 -0.0095 -0.0046 0.0261  
 -0.0319 0.0327 -0.0071 0.0311 -0.0088 -0.0083 -0.0034 -0.0056 0.0260 -0.0053 -0.0035 0.0437 -0.0083 -0.0318 0.0268  
 0.0001 0.0618 -0.0184 0.0457 -0.0218 0.0102 0.0402 -0.0127 0.0102 -0.0296 0.0195 0.0552 0.0087 -0.0365 0.0086  
  
 Columns 4,321 through 4,335  
  
 0.0094 -0.0059 0.0238 0.0184 0.0107 -0.0264 -0.0014 -0.0155 0.0130 -0.0486 -0.0094 -0.0164 0.0062 0.0134 0.0117  
 -0.0029 -0.0406 -0.0121 0.0256 0.0099 -0.0113 -0.0068 0.0121 -0.0221 -0.0163 -0.0207 0.0102 -0.0278 0.0353 -0.0097  
 -0.0148 -0.0531 -0.0300 0.0259 0.0042 0.0110 -0.0167 0.0283 -0.0424 0.0225 -0.0173 0.0096 -0.0360 0.0244 -0.0195  
  
 Columns 4,336 through 4,350  
  
 0.0097 -0.0362 -0.0228 -0.0129 0.0171 0.0269 -0.0353 0.0269 -0.0069 0.0256 -0.0278 0.0136 -0.0125 0.0265 0.0016  
 0.0026 0.0092 0.0029 -0.0196 0.0147 -0.0312 0.0293 0.0475 -0.0094 0.0109 0.0044 -0.0113 0.0163 -0.0072 0.0177  
 -0.0046 0.0353 0.0137 -0.0195 -0.0056 -0.0654 0.0659 0.0445 -0.0122 -0.0119 0.0167 -0.0295 0.0342 -0.0548 0.0262  
  
 Columns 4,351 through 4,365  
  
 0.0079 -0.0054 -0.0012 0.0620 0.0207 -0.0608 -0.0330 0.0130 -0.0072 0.0004 0.0435 0.0107 0.0303 -0.0353 -0.0076  
 -0.0171 -0.0021 -0.0478 0.0055 -0.0147 -0.0080 -0.0056 0.0137 -0.0004 0.0106 0.0142 0.0305 -0.0062 0.0056 -0.0032  
 -0.0134 0.0080 -0.0545 -0.0432 -0.0341 0.0467 0.0141 -0.0025 0.0094 0.0200 -0.0356 0.0240 -0.0471 0.0290 0.0159  
  
 Columns 4,366 through 4,380  
  
 -0.0445 -0.0323 0.0106 0.0060 -0.0119 -0.0177 -0.0031 0.0113 0.0288 -0.0024 0.0130 -0.0096 -0.0173 -0.0204 -0.0236  
 0.0176 -0.0045 -0.0033 0.0062 -0.0072 -0.0453 0.0153 0.0217 0.0416 0.0045 -0.0000 -0.0276 0.0328 0.0411 -0.0132  
 0.0476 0.0367 -0.0017 -0.0044 -0.0013 -0.0409 0.0120 0.0181 0.0210 0.0054 -0.0272 -0.0222 0.0453 0.0546 0.0050  
  
 Columns 4,381 through 4,395  
  
 0.0076 -0.0161 -0.0048 0.0279 -0.0259 0.0582 0.0346 -0.0079 -0.0290 0.0096 -0.0094 -0.0084 0.0095 -0.0026 -0.0200  
 0.0042 0.0219 -0.0280 0.0232 -0.0005 0.0377 -0.0276 -0.0215 -0.0119 -0.0539 -0.0135 0.0145 -0.0230 0.0049 -0.0032  
 0.0149 0.0397 -0.0282 0.0155 0.0276 0.0005 -0.0499 -0.0375 -0.0000 -0.0815 -0.0144 0.0246 -0.0298 0.0186 0.0097  
  
 Columns 4,396 through 4,410  
  
 -0.0377 0.0300 0.0099 -0.0173 0.0141 0.0019 0.0061 -0.0273 -0.0012 -0.0105 -0.0148 0.0401 -0.0522 0.0316 -0.0312  
 -0.0001 0.0334 0.0146 -0.0092 0.0177 0.0195 -0.0031 0.0075 0.0274 0.0221 -0.0375 -0.0096 -0.0164 -0.0169 -0.0483  
 0.0480 0.0050 0.0038 0.0105 0.0147 0.0144 -0.0173 0.0310 0.0430 0.0397 -0.0335 -0.0457 0.0265 -0.0330 -0.0371  
  
 Columns 4,411 through 4,425  
  
 -0.0483 0.0052 -0.0030 -0.0104 0.0015 0.0161 0.0240 -0.0034 -0.0024 -0.0453 -0.0162 -0.0238 -0.0020 -0.0277 -0.0186  
 -0.0089 0.0155 0.0133 0.0114 -0.0209 0.0012 -0.0353 0.0100 -0.0299 0.0026 0.0079 0.0128 -0.0180 0.0044 -0.0008  
 0.0232 0.0185 0.0110 0.0257 -0.0278 -0.0133 -0.0802 0.0057 -0.0268 0.0331 0.0219 0.0338 -0.0223 0.0325 0.0178  
  
 Columns 4,426 through 4,440  
  
 -0.0011 -0.0024 0.0396 0.0265 -0.0191 0.0302 0.0094 -0.0075 0.0113 0.0079 0.0438 -0.0170 -0.0077 0.0470 0.0256  
 -0.0387 0.0093 0.0193 -0.0059 0.0132 -0.0219 -0.0030 0.0094 -0.0171 -0.0079 0.0319 -0.0198 0.0049 0.0081 0.0056  
 -0.0456 0.0112 -0.0101 -0.0233 0.0204 -0.0383 -0.0071 0.0342 -0.0311 -0.0101 0.0102 -0.0050 0.0161 -0.0222 -0.0118  
  
 Columns 4,441 through 4,455  
  
 0.0130 0.0738 0.0330 -0.0055 -0.0127 -0.0029 0.0125 -0.0015 -0.0189 0.0149 0.0112 -0.0700 -0.0272 -0.0149 -0.0711  
 0.0409 0.0094 0.0254 -0.0206 -0.0010 -0.0461 0.0102 -0.0036 -0.0127 0.0130 -0.0176 0.0277 -0.0446 0.0043 -0.0115  
 0.0297 -0.0440 -0.0002 -0.0365 0.0101 -0.0507 -0.0127 -0.0088 0.0023 0.0104 -0.0442 0.0884 -0.0396 0.0349 0.0428  
  
 Columns 4,456 through 4,470  
  
 -0.0331 0.0207 0.0434 0.0484 0.0093 -0.0063 -0.0418 -0.0661 -0.0182 0.0413 0.0137 -0.0379 -0.0146 0.0137 0.0332  
 0.0295 0.0236 0.0245 0.0326 0.0144 0.0227 0.0413 -0.0148 -0.0068 0.0198 0.0036 -0.0396 -0.0165 0.0158 0.0059  
 0.0546 0.0213 -0.0168 0.0017 0.0050 0.0258 0.0781 0.0336 0.0105 -0.0055 -0.0003 0.0054 -0.0160 0.0145 -0.0139  
  
 Columns 4,471 through 4,485  
  
 0.0052 0.0015 0.0000 -0.0045 -0.0173 0.0033 -0.0520 -0.0491 0.0183 -0.0351 -0.0051 0.0149 -0.0241 -0.0100 -0.0042  
 0.0077 0.0155 0.0105 0.0179 0.0049 -0.0083 -0.0044 -0.0100 0.0091 0.0316 0.0322 -0.0278 0.0371 -0.0108 0.0597  
 0.0146 0.0046 0.0193 0.0408 0.0405 -0.0087 0.0452 0.0265 -0.0080 0.0653 0.0420 -0.0464 0.0627 0.0083 0.0716  
  
 Columns 4,486 through 4,500  
  
 0.0152 0.0305 -0.0414 -0.0252 -0.0418 -0.0075 -0.0098 -0.0319 0.0374 -0.0153 0.0235 0.0067 -0.0094 -0.0220 0.0144  
 0.0213 -0.0001 -0.0337 -0.0072 0.0238 -0.0059 -0.0272 -0.0345 -0.0142 -0.0178 0.0162 -0.0344 0.0175 -0.0129 0.0235  
 0.0234 -0.0218 0.0148 0.0189 0.0581 0.0040 -0.0354 -0.0105 -0.0420 -0.0085 0.0016 -0.0338 0.0309 0.0059 0.0164

Columns 4,501 through 4,515  
  
 0.0074 0.0484 0.0422 -0.0286 0.0194 -0.0009 0.0282 -0.0172 0.0294 0.0231 0.0238 0.0462 0.0313 0.0300 0.0174  
 0.0013 -0.0113 0.0226 0.0234 0.0676 -0.0160 -0.0116 -0.0501 -0.0229 -0.0194 -0.0162 -0.0019 -0.0072 -0.0001 0.0100  
 -0.0047 -0.0621 -0.0071 0.0651 0.0748 -0.0048 -0.0372 -0.0583 -0.0637 -0.0517 -0.0473 -0.0404 -0.0354 -0.0253 -0.0060  
  
 Columns 4,516 through 4,530  
  
 -0.0261 -0.0362 0.0132 -0.0262 -0.0063 0.0365 0.0040 0.0544 -0.0210 -0.0058 -0.0194 0.0114 0.0201 -0.0225 -0.0205  
 0.0212 -0.0033 0.0342 -0.0026 0.0150 -0.0072 -0.0537 0.0230 0.0037 -0.0408 -0.0278 0.0033 0.0329 0.0156 -0.0395  
 0.0459 0.0370 0.0183 0.0033 0.0117 -0.0309 -0.0744 -0.0150 0.0213 -0.0415 -0.0061 -0.0118 0.0247 0.0264 -0.0399  
  
 Columns 4,531 through 4,545  
  
 -0.0215 0.0076 -0.0157 0.0105 0.0001 0.0139 0.0114 -0.0298 0.0197 -0.0233 -0.0078 0.0066 -0.0051 -0.0091 0.0384  
 0.0197 0.0025 0.0136 -0.0175 -0.0252 0.0198 -0.0335 -0.0018 0.0064 0.0247 -0.0179 -0.0229 0.0049 -0.0251 0.0476  
 0.0488 -0.0151 0.0436 -0.0243 -0.0281 0.0107 -0.0444 0.0321 -0.0098 0.0506 -0.0207 -0.0243 0.0078 -0.0266 0.0208  
  
 Columns 4,546 through 4,560  
  
 0.0400 0.0043 0.0104 -0.0069 -0.0112 -0.0022 0.0131 -0.0009 -0.0369 -0.0109 -0.0247 -0.0230 -0.0087 0.0101 -0.0472  
 0.0023 0.0165 0.0460 0.0182 0.0021 0.0104 0.0530 0.0258 -0.0364 0.0065 0.0130 -0.0358 0.0164 -0.0068 0.0089  
 -0.0178 0.0253 0.0404 0.0219 0.0157 0.0134 0.0442 0.0241 -0.0089 0.0201 0.0292 -0.0175 0.0357 -0.0223 0.0591  
  
 Columns 4,561 through 4,575  
  
 0.0008 -0.0077 0.0305 -0.0234 -0.0186 -0.0099 0.0018 -0.0107 -0.0006 0.0472 -0.0004 -0.0131 -0.0043 -0.0050 0.0083  
 -0.0186 -0.0438 -0.0216 0.0365 -0.0097 -0.0252 0.0439 0.0254 -0.0108 0.0179 0.0199 -0.0321 0.0154 -0.0185 0.0365  
 -0.0217 -0.0430 -0.0519 0.0583 0.0018 -0.0214 0.0564 0.0428 -0.0036 -0.0331 0.0177 -0.0355 0.0242 -0.0246 0.0394  
  
 Columns 4,576 through 4,590  
  
 -0.0002 0.0016 -0.0138 0.0009 -0.0259 0.0074 -0.0225 -0.0046 0.0144 0.0405 0.0176 -0.0181 -0.0050 0.0294 -0.0104  
 -0.0238 -0.0102 0.0164 0.0010 0.0035 0.0306 0.0010 -0.0440 0.0402 0.0017 0.0110 -0.0044 -0.0272 -0.0091 0.0263  
 -0.0218 -0.0137 0.0301 0.0027 0.0212 0.0186 0.0330 -0.0612 0.0344 -0.0282 -0.0021 0.0212 -0.0177 -0.0284 0.0365  
  
 Columns 4,591 through 4,605  
  
 0.0041 0.0393 0.0218 -0.0347 -0.0103 0.0538 -0.0132 -0.0545 0.0052 0.0149 0.0031 0.0157 -0.0142 -0.0652 0.0207  
 -0.0189 -0.0063 0.0170 0.0292 -0.0028 0.0086 -0.0160 -0.0032 -0.0379 -0.0119 0.0302 0.0079 -0.0338 -0.0028 0.0125  
 -0.0334 -0.0489 0.0060 0.0693 0.0015 -0.0314 -0.0017 0.0364 -0.0387 -0.0149 0.0425 -0.0089 -0.0275 0.0487 -0.0053  
  
 Columns 4,606 through 4,620  
  
 0.0042 -0.0006 -0.0129 -0.0211 -0.0013 0.0165 -0.0033 0.0458 0.0033 -0.0523 0.0140 -0.0006 -0.0032 0.0069 0.0083  
 -0.0182 0.0064 0.0285 -0.0133 -0.0327 0.0046 -0.0159 -0.0005 0.0072 -0.0084 -0.0051 -0.0140 -0.0094 -0.0055 -0.0023  
 -0.0167 0.0148 0.0376 0.0044 -0.0369 -0.0104 -0.0172 -0.0396 0.0028 0.0366 -0.0165 -0.0065 0.0011 0.0027 -0.0008  
  
 Columns 4,621 through 4,635  
  
 0.0103 -0.0047 0.0006 -0.0154 -0.0027 -0.0028 0.0400 0.0322 -0.0180 -0.0335 0.0067 0.0234 0.0275 -0.0183 -0.0129  
 0.0329 0.0057 -0.0053 -0.0145 0.0149 -0.0006 0.0224 0.0387 -0.0106 -0.0052 -0.0186 -0.0415 -0.0049 0.0312 -0.0012  
 0.0198 0.0131 -0.0002 -0.0110 0.0275 -0.0041 -0.0017 0.0232 0.0038 0.0160 -0.0314 -0.0687 -0.0257 0.0520 0.0177  
  
 Columns 4,636 through 4,650  
  
 -0.0009 -0.0206 -0.0004 -0.0083 -0.0209 -0.0151 -0.0462 0.0162 -0.0037 -0.0124 0.0238 0.0238 -0.0062 0.0254 -0.0273  
 0.0360 0.0116 -0.0131 0.0337 0.0115 0.0222 -0.0121 -0.0167 0.0117 0.0210 -0.0005 0.0279 -0.0054 0.0254 -0.0273  
 0.0522 0.0316 -0.0136 0.0369 0.0263 0.0412 0.0404 -0.0366 0.0140 0.0300 -0.0243 -0.0026 -0.0020 0.0109 -0.0273  
  
 Columns 4,651 through 4,665  
  
 0.0155 -0.0134 0.0032 0.0564 -0.0037 0.0452 0.0036 0.0009 0.0081 -0.0570 0.0137 0.0083 0.0203 -0.0216 -0.0135  
 0.0180 -0.0220 0.0047 -0.0198 0.0180 0.0055 0.0196 0.0082 -0.0007 -0.0122 0.0347 -0.0188 0.0235 -0.0013 -0.0047  
 -0.0016 -0.0240 0.0068 -0.0655 0.0336 -0.0360 0.0248 0.0087 0.0041 0.0192 0.0030 -0.0330 0.0078 0.0307 0.0224  
  
 Columns 4,666 through 4,680  
  
 -0.0330 0.0445 0.0281 -0.0104 -0.0211 0.0437 -0.0396 0.0175 -0.0116 -0.0399 -0.0171 -0.0032 -0.0046 -0.0178 0.0272  
 -0.0411 0.0241 0.0193 0.0181 -0.0177 0.0065 -0.0125 0.0042 0.0088 -0.0232 -0.0186 0.0020 -0.0047 0.0069 0.0188  
 -0.0265 -0.0080 0.0098 0.0290 -0.0104 -0.0069 0.0185 -0.0077 0.0168 0.0181 0.0172 -0.0020 0.0109 0.0416 -0.0008  
  
 Columns 4,681 through 4,695  
  
 -0.0127 -0.0260 -0.0245 -0.0278 -0.0051 0.0370 0.0236 -0.0232 -0.0168 -0.0235 0.0132 0.0207 0.0398 -0.0086 0.0513  
 0.0075 0.0158 0.0203 0.0193 -0.0050 -0.0002 -0.0155 0.0151 0.0315 0.0147 -0.0031 -0.0381 -0.0273 -0.0135 -0.0684  
 0.0274 0.0543 0.0411 0.0448 -0.0049 -0.0267 -0.0305 0.0471 0.0330 0.0318 -0.0241 -0.0748 -0.0696 -0.0078 -0.1123  
  
 Columns 4,696 through 4,710  
  
 -0.0200 -0.0330 -0.0038 -0.0249 0.0059 0.0510 -0.0101 0.0137 -0.0204 -0.0240 0.0027 0.0107 0.0423 0.0028 0.0168  
 0.0178 0.0157 0.0046 -0.0104 0.0311 0.0053 -0.0244 0.0188 0.0053 -0.0298 0.0284 -0.0065 0.0544 -0.0043 -0.0041  
 0.0472 0.0392 0.0108 0.0107 0.0290 -0.0317 -0.0269 0.0051 0.0308 -0.0228 0.0367 -0.0141 0.0363 0.0014 -0.0129  
  
 Columns 4,711 through 4,725  
  
 -0.0126 0.0043 0.0278 0.0030 -0.0159 0.0129 -0.0009 0.0198 -0.0025 0.0089 0.0095 -0.0027 -0.0027 0.0058 -0.0532  
 0.0028 0.0041 0.0382 0.0060 0.0215 0.0269 -0.0054 0.0092 -0.0025 0.0436 0.0057 -0.0108 -0.0001 -0.0091 -0.0234  
 0.0308 -0.0033 0.0221 0.0016 0.0433 0.0155 -0.0074 -0.0206 -0.0000 0.0359 -0.0033 -0.0079 0.0004 -0.0091 0.0373  
  
 Columns 4,726 through 4,740  
  
 -0.0126 -0.0343 -0.0387 0.0219 0.0081 0.0294 0.0121 0.0045 0.0025 -0.0105 -0.0040 0.0117 0.0001 -0.0464 0.0065  
 0.0156 0.0045 0.0081 -0.0010 -0.0180 -0.0142 -0.0279 0.0532 0.0081 -0.0171 0.0077 0.0125 0.0071 0.0072 0.0101  
 0.0367 0.0386 0.0417 -0.0068 -0.0278 -0.0478 -0.0476 0.0475 0.0062 -0.0106 0.0108 -0.0115 0.0005 0.0423 0.0040  
  
 Columns 4,741 through 4,755  
  
 0.0277 -0.0005 -0.0157 -0.0027 0.0142 0.0093 -0.0227 -0.0058 0.0001 0.0288 0.0194 -0.0125 0.0045 -0.0004 0.0030  
 -0.0214 -0.0211 0.0125 -0.0145 0.0107 0.0136 -0.0193 0.0151 -0.0239 -0.0162 -0.0079 -0.0067 -0.0078 -0.0324 -0.0056  
 -0.0400 -0.0262 0.0193 -0.0224 0.0021 0.0066 0.0048 0.0321 -0.0391 -0.0313 -0.0432 0.0162 -0.0100 -0.0373 -0.0020  
  
 Columns 4,756 through 4,770  
  
 0.0354 0.0162 0.0051 0.0233 0.0527 0.0297 -0.0141 -0.0330 -0.0199 0.0068 0.0018 -0.0131 -0.0228 0.0161 -0.0265  
 0.0179 0.0293 -0.0141 0.0238 0.0216 0.0351 0.0168 -0.0336 -0.0168 0.0346 0.0030 0.0195 0.0128 0.0452 -0.0582  
 -0.0085 0.0106 -0.0104 0.0173 -0.0202 0.0195 0.0221 -0.0119 -0.0150 0.0376 -0.0067 0.0238 0.0238 0.0269 -0.0368  
  
 Columns 4,771 through 4,785  
  
 0.0360 -0.0096 0.0016 -0.0319 0.0225 -0.0534 0.0023 0.0301 -0.0373 -0.0080 -0.0007 -0.0057 0.0347 0.0270 0.0260  
 -0.0045 -0.0174 -0.0319 -0.0090 0.0449 0.0134 0.0162 0.0487 0.0041 -0.0167 -0.0326 -0.0084 -0.0001 -0.0071 0.0083  
 -0.0382 -0.0183 -0.0366 0.0244 0.0386 0.0790 0.0107 0.0341 0.0515 -0.0170 -0.0378 -0.0054 -0.0205 -0.0368 -0.0048  
  
 Columns 4,786 through 4,800  
  
 -0.0024 -0.0024 -0.0082 -0.0287 -0.0156 -0.0584 -0.0295 -0.0265 0.0182 -0.0292 0.0364 0.0099 0.0230 -0.0019 -0.0506  
 -0.0157 -0.0024 0.0088 -0.0186 -0.0094 0.0021 -0.0191 -0.0122 0.0305 0.0418 0.0306 0.0161 0.0056 -0.0106 0.0017  
 -0.0143 0.0208 0.0334 -0.0088 0.0150 0.0554 -0.0059 0.0074 0.0244 0.0662 0.0077 0.0094 -0.0118 -0.0220 0.0422  
  
 Columns 4,801 through 4,815  
  
 0.0014 0.0060 -0.0230 0.0176 -0.0141 -0.0048 0.0065 -0.0038 -0.0370 0.0167 -0.0096 -0.0470 -0.0185 -0.0104 -0.0386  
 -0.0139 -0.0328 0.0067 -0.0030 0.0004 -0.0104 -0.0365 -0.0394 0.0078 0.0590 0.0130 -0.0111 -0.0038 -0.0032 0.0354  
 -0.0181 -0.0415 0.0278 -0.0095 0.0069 0.0009 -0.0541 -0.0466 0.0470 0.0618 0.0315 0.0149 0.0080 -0.0006 0.0615  
  
 Columns 4,816 through 4,830  
  
 0.0387 -0.0244 0.0273 0.0289 0.0058 -0.0084 0.0380 -0.0249 0.0013 0.0150 0.0068 0.0138 0.0151 0.0068 0.0075  
 -0.0028 -0.0030 -0.0292 0.0175 0.0022 -0.0168 0.0198 -0.0294 0.0022 -0.0033 0.0144 0.0051 -0.0013 -0.0230 -0.0233  
 -0.0284 0.0216 -0.0721 -0.0082 -0.0065 -0.0185 -0.0135 -0.0136 0.0006 -0.0256 -0.0099 -0.0145 -0.0184 -0.0256 -0.0244  
  
 Columns 4,831 through 4,845  
  
 0.0069 0.0038 0.0092 -0.0024 -0.0455 -0.0120 0.0072 -0.0046 0.0106 -0.0028 0.0142 -0.0333 0.0142 -0.0062 -0.0172  
 0.0069 -0.0121 -0.0089 -0.0164 -0.0102 0.0102 0.0341 0.0351 0.0289 0.0104 -0.0159 0.0152 -0.0160 -0.0346 0.0594  
 -0.0050 -0.0139 -0.0221 -0.0128 0.0214 0.0278 0.0258 0.0381 0.0256 0.0017 -0.0223 0.0378 -0.0271 -0.0307 0.0720  
  
 Columns 4,846 through 4,860  
  
 0.0276 0.0408 -0.0104 -0.0059 0.0095 -0.0416 -0.0185 0.0190 0.0079 0.0083 0.0223 -0.0539 0.0448 0.0019 -0.0040  
 0.0130 -0.0033 0.0054 0.0034 -0.0433 -0.0330 -0.0013 0.0114 -0.0348 -0.0119 -0.0030 0.0035 -0.0355 0.0126 0.0270  
 -0.0081 -0.0340 0.0211 0.0113 -0.0542 -0.0100 0.0051 0.0031 -0.0438 -0.0221 -0.0253 0.0591 -0.0818 0.0182 0.0272  
  
 Columns 4,861 through 4,875  
  
 0.0137 0.0090 0.0078 -0.0260 0.0071 -0.0136 -0.0356 0.0063 0.0065 0.0349 -0.0229 0.0070 -0.0265 0.0166 0.0032  
 -0.0446 0.0149 0.0429 0.0026 0.0213 -0.0114 -0.0037 -0.0191 -0.0076 -0.0054 -0.0189 0.0259 0.0001 0.0309 0.0081  
 -0.0707 0.0120 0.0509 0.0235 0.0236 0.0005 0.0320 -0.0213 -0.0193 -0.0345 -0.0016 0.0155 0.0291 0.0323 0.0053  
  
 Columns 4,876 through 4,890  
  
 0.0021 0.0228 0.0246 -0.0042 0.0047 -0.0165 0.0242 0.0009 0.0231 0.0208 -0.0018 -0.0075 -0.0296 -0.0187 -0.0091  
 -0.0299 -0.0259 -0.0301 0.0135 -0.0100 0.0118 -0.0179 -0.0188 0.0065 0.0112 -0.0012 0.0013 -0.0172 0.0320 0.0017  
 -0.0413 -0.0364 -0.0558 0.0258 -0.0185 0.0249 -0.0523 -0.0118 -0.0121 -0.0206 -0.0060 0.0138 0.0038 0.0571 -0.0059  
  
 Columns 4,891 through 4,905  
  
 0.0277 -0.0665 0.0071 0.0247 -0.0175 0.0108 0.0288 0.0225 0.0099 0.0290 -0.0048 0.0006 0.0091 0.0171 0.0197  
 -0.0005 -0.0320 -0.0225 0.0171 -0.0300 -0.0189 0.0128 -0.0219 -0.0068 0.0016 -0.0080 -0.0227 0.0094 -0.0093 0.0291  
 -0.0200 0.0297 -0.0337 0.0028 -0.0203 -0.0407 -0.0008 -0.0529 -0.0108 -0.0213 -0.0001 -0.0189 -0.0052 -0.0171 0.0175  
  
 Columns 4,906 through 4,920  
  
 0.0002 -0.0065 -0.0117 0.0115 0.0014 0.0136 0.0379 0.0115 -0.0170 -0.0190 -0.0266 -0.0360 -0.0212 -0.0437 -0.0019  
 -0.0033 -0.0261 0.0200 -0.0004 0.0052 -0.0065 -0.0142 0.0234 0.0193 0.0076 -0.0319 0.0008 0.0064 -0.0096 0.0327  
 0.0001 -0.0394 0.0255 -0.0176 0.0171 -0.0098 -0.0557 0.0273 0.0385 0.0332 -0.0273 0.0308 0.0204 0.0331 0.0381  
  
 Columns 4,921 through 4,935  
  
 -0.0087 -0.0185 0.0060 -0.0096 -0.0165 0.0326 0.0237 -0.0272 -0.0042 0.0304 -0.0140 -0.0164 0.0268 -0.0116 0.0257  
 -0.0063 0.0085 0.0369 0.0084 0.0033 0.0303 -0.0390 0.0005 0.0168 0.0207 -0.0329 -0.0075 -0.0500 0.0061 0.0195  
 0.0034 0.0173 0.0482 0.0253 0.0249 0.0103 -0.0652 0.0276 0.0364 0.0035 -0.0339 0.0300 -0.0734 0.0128 -0.0086  
  
 Columns 4,936 through 4,950  
  
 -0.0085 -0.0121 0.0142 -0.0005 0.0154 -0.0181 -0.0137 -0.0029 0.0109 0.0124 -0.0329 -0.0325 -0.0004 -0.0017 0.0150  
 -0.0140 0.0423 -0.0025 -0.0079 0.0097 0.0081 0.0223 -0.0061 0.0007 -0.0141 -0.0252 -0.0349 0.0303 -0.0032 -0.0404  
 -0.0105 0.0485 -0.0062 0.0112 0.0069 0.0322 0.0445 -0.0116 0.0060 -0.0099 -0.0056 -0.0097 0.0464 -0.0026 -0.0584  
  
 Columns 4,951 through 4,965  
  
 0.0034 -0.0222 -0.0453 -0.0106 -0.0137 -0.0136 0.0626 -0.0001 0.0399 -0.0045 -0.0076 -0.0009 0.0091 0.0321 -0.0205  
 -0.0152 -0.0186 0.0225 -0.0040 -0.0104 -0.0106 0.0391 -0.0040 0.0038 -0.0023 0.0060 -0.0435 0.0038 0.0156 -0.0043  
 -0.0412 0.0037 0.0629 0.0015 -0.0118 0.0084 0.0051 -0.0093 -0.0366 0.0064 0.0066 -0.0369 -0.0049 -0.0222 0.0159  
  
 Columns 4,966 through 4,980  
  
 0.0202 -0.0128 -0.0177 -0.0107 0.0087 0.0179 -0.0080 -0.0125 -0.0349 0.0196 0.0316 0.0003 -0.0184 -0.0121 0.0123  
 0.0187 -0.0212 0.0050 -0.0109 0.0151 0.0222 0.0154 0.0068 -0.0100 0.0044 0.0404 -0.0454 -0.0523 0.0176 0.0294  
 0.0055 -0.0176 0.0243 0.0007 -0.0016 0.0169 0.0111 0.0269 0.0160 -0.0171 0.0198 -0.0427 -0.0524 0.0217 0.0081  
  
 Columns 4,981 through 4,995  
  
 0.0180 0.0059 -0.0230 -0.0261 0.0360 0.0090 0.0041 -0.0200 -0.0233 -0.0048 -0.0164 0.0074 -0.0151 -0.0333 0.0345  
 -0.0133 0.0317 0.0460 -0.0094 0.0244 -0.0084 -0.0238 0.0143 -0.0094 0.0331 -0.0155 -0.0015 0.0147 0.0047 0.0082  
 -0.0404 0.0301 0.0710 0.0034 0.0220 -0.0162 -0.0465 0.0326 0.0079 0.0298 -0.0076 0.0040 0.0335 0.0380 -0.0274  
  
 Columns 4,996 through 5,010

0.0067 -0.0025 0.0156 -0.0126 -0.0149 0.0111 0.0337 0.0178 -0.0015 0.0155 -0.0120 0.0174 0.0032 0.0140 -0.0204  
 -0.0418 -0.0071 -0.0474 -0.0147 0.0170 0.0196 0.0064 0.0070 0.0200 -0.0011 0.0064 0.0267 0.0298 -0.0076 -0.0440  
 -0.0481 -0.0087 -0.0732 -0.0206 0.0335 0.0043 -0.0362 -0.0136 0.0258 -0.0165 0.0256 0.0154 0.0345 -0.0197 -0.0312  
  
 Columns 5,011 through 5,025  
  
 0.0547 -0.0162 -0.0077 0.0047 0.0109 0.0119 0.0021 0.0147 -0.0411 -0.0632 -0.0028 -0.0167 -0.0037 -0.0115 -0.0050  
 -0.0249 -0.0158 -0.0324 0.0110 -0.0336 0.0101 0.0081 -0.0378 -0.0462 -0.0376 0.0050 -0.0269 0.0235 -0.0174 0.0175  
 -0.0581 0.0174 -0.0368 0.0082 -0.0625 0.0101 0.0067 -0.0622 -0.0341 0.0031 0.0291 -0.0281 0.0348 -0.0131 0.0260  
  
 Columns 5,026 through 5,040  
  
 0.0529 0.0245 0.0171 -0.0093 -0.0119 0.0227 0.0552 0.0161 -0.0386 0.0050 0.0034 0.0095 -0.0565 0.0076 0.0060  
 0.0180 0.0100 0.0311 0.0469 0.0252 -0.0114 0.0222 -0.0380 -0.0522 -0.0167 -0.0404 -0.0203 0.0297 -0.0159 0.0574  
 -0.0238 -0.0083 0.0254 0.0597 0.0326 -0.0135 -0.0215 -0.0668 -0.0251 -0.0139 -0.0400 -0.0271 0.0885 -0.0298 0.0545  
  
 Columns 5,041 through 5,055  
  
 0.0093 -0.0285 -0.0097 -0.0432 -0.0127 -0.0043 0.0298 -0.0158 -0.0155 -0.0198 0.0376 0.0030 0.0143 0.0385 0.0267  
 0.0281 0.0186 -0.0153 -0.0293 -0.0084 0.0042 -0.0268 -0.0168 -0.0350 0.0150 0.0513 0.0466 -0.0314 0.0083 -0.0078  
 0.0389 0.0454 -0.0179 -0.0097 0.0117 0.0095 -0.0534 -0.0005 -0.0329 0.0464 0.0344 0.0465 -0.0415 -0.0289 -0.0290  
  
 Columns 5,056 through 5,070  
  
 0.0364 -0.0444 -0.0001 -0.0138 -0.0031 -0.0360 -0.0219 0.0100 0.0140 -0.0364 -0.0402 0.0054 0.0212 -0.0042 0.0346  
 -0.0251 -0.0081 -0.0048 -0.0006 0.0166 -0.0323 0.0056 -0.0326 -0.0133 0.0060 -0.0300 0.0089 -0.0215 0.0070 0.0064  
 -0.0647 0.0261 0.0001 0.0115 0.0208 -0.0096 0.0363 -0.0408 -0.0328 0.0284 0.0154 0.0045 -0.0368 0.0137 -0.0126  
  
 Columns 5,071 through 5,085  
  
 0.0124 -0.0171 0.0054 0.0046 0.0072 -0.0109 -0.0042 -0.0111 -0.0245 -0.0243 0.0232 -0.0410 0.0249 0.0403 -0.0329  
 -0.0089 -0.0359 -0.0175 0.0114 -0.0015 -0.0029 -0.0102 0.0263 -0.0047 -0.0224 -0.0233 -0.0056 0.0185 -0.0039 0.0041  
 -0.0247 -0.0222 -0.0220 0.0220 -0.0117 0.0090 -0.0033 0.0367 0.0191 -0.0047 -0.0544 0.0313 -0.0066 -0.0396 0.0234  
  
 Columns 5,086 through 5,100  
  
 0.0319 0.0361 -0.0007 -0.0245 -0.0212 -0.0081 0.0156 0.0005 -0.0170 -0.0300 -0.0130 -0.0256 0.0301 -0.0012 -0.0180  
 0.0207 -0.0136 -0.0181 0.0162 -0.0052 -0.0124 -0.0221 -0.0049 0.0122 -0.0095 0.0263 -0.0214 0.0071 0.0201 -0.0041  
 0.0050 -0.0520 -0.0190 0.0534 0.0129 0.0016 -0.0437 -0.0212 0.0308 0.0173 0.0488 -0.0102 -0.0135 0.0163 0.0208  
  
 Columns 5,101 through 5,115  
  
 -0.0223 -0.0056 -0.0018 -0.0150 0.0167 -0.0148 0.0094 -0.0139 0.0131 0.0155 0.0084 -0.0373 0.0047 -0.0154 0.0325  
 -0.0351 -0.0235 0.0064 -0.0123 0.0629 -0.0259 0.0092 -0.0033 -0.0174 0.0440 0.0111 0.0267 0.0132 -0.0727 -0.0262  
 -0.0065 -0.0154 0.0087 -0.0052 0.0534 -0.0085 0.0139 0.0064 -0.0202 0.0506 -0.0012 0.0595 0.0078 -0.0582 -0.0654  
  
 Columns 5,116 through 5,130  
  
 -0.0149 0.0064 -0.0097 0.0049 0.0129 0.0186 0.0149 0.0249 0.0236 -0.0031 -0.0343 0.0165 0.0214 0.0020 0.0237  
 0.0118 -0.0173 0.0088 -0.0048 0.0158 0.0094 0.0168 0.0287 -0.0247 -0.0058 -0.0263 0.0371 0.0401 0.0004 0.0313  
 0.0321 -0.0245 0.0215 -0.0132 0.0298 -0.0011 0.0084 0.0094 -0.0548 0.0029 -0.0037 0.0405 0.0269 -0.0226 0.0117  
  
 Columns 5,131 through 5,145  
  
 -0.0393 0.0025 0.0223 0.0296 0.0150 -0.0042 -0.0411 0.0091 0.0241 0.0093 0.0221 -0.0363 -0.0452 -0.0362 0.0017  
 0.0019 -0.0115 0.0144 0.0420 0.0103 0.0103 -0.0311 0.0217 -0.0040 0.0060 0.0281 -0.0218 0.0263 -0.0238 -0.0042  
 0.0381 -0.0093 -0.0073 0.0195 -0.0046 0.0061 0.0101 0.0227 -0.0291 -0.0086 0.0084 0.0057 0.0673 0.0078 -0.0110  
  
 Columns 5,146 through 5,160  
  
 0.0005 0.0222 -0.0082 0.0219 -0.0023 0.0358 0.0252 0.0139 -0.0022 0.0296 0.0011 0.0318 -0.0205 0.0150 0.0228  
 0.0315 0.0430 -0.0172 -0.0188 0.0216 0.0275 -0.0180 0.0077 -0.0432 0.0138 0.0401 0.0025 -0.0319 0.0274 -0.0045  
 0.0562 0.0423 -0.0196 -0.0406 0.0168 0.0119 -0.0225 -0.0050 -0.0498 -0.0179 0.0510 -0.0232 -0.0249 0.0150 -0.0214  
  
 Columns 5,161 through 5,175  
  
 0.0462 -0.0036 -0.0253 -0.0497 -0.0076 0.0293 0.0156 -0.0489 -0.0132 0.0296 -0.0043 -0.0203 0.0062 0.0128 0.0178  
 -0.0076 -0.0352 -0.0363 -0.0101 -0.0033 0.0197 0.0103 -0.0308 -0.0377 0.0015 0.0026 -0.0106 0.0244 -0.0393 -0.0020  
 -0.0449 -0.0411 -0.0177 0.0239 0.0077 -0.0058 0.0060 -0.0084 -0.0274 -0.0109 0.0073 0.0077 0.0168 -0.0543 -0.0181  
  
 Columns 5,176 through 5,190  
  
 -0.0092 -0.0204 0.0159 0.0331 0.0021 -0.0052 0.0108 -0.0332 -0.0027 0.0320 -0.0359 -0.0041 0.0101 -0.0088 0.0277  
 0.0037 -0.0249 0.0085 0.0362 -0.0168 -0.0177 -0.0162 0.0103 -0.0209 -0.0021 0.0362 -0.0010 -0.0151 0.0230 -0.0132  
 0.0142 -0.0148 -0.0012 0.0058 -0.0145 -0.0230 -0.0145 0.0390 -0.0147 -0.0188 0.0795 -0.0145 -0.0250 0.0342 -0.0408  
  
 Columns 5,191 through 5,205  
  
 -0.0131 0.0058 -0.0446 -0.0269 0.0019 0.0172 -0.0159 0.0001 0.0131 0.0349 0.0248 -0.0139 -0.0048 0.0066 -0.0131  
 -0.0081 0.0421 0.0427 -0.0106 0.0093 0.0163 0.0069 -0.0118 -0.0017 -0.0185 -0.0674 -0.0100 -0.0199 -0.0056 0.0497  
 -0.0053 0.0413 0.0843 0.0147 0.0173 -0.0057 0.0174 -0.0190 -0.0124 -0.0560 -0.1136 -0.0030 -0.0108 -0.0132 0.0625  
  
 Columns 5,206 through 5,220  
  
 0.0167 0.0134 0.0273 -0.0370 -0.0195 0.0059 0.0093 -0.0054 -0.0005 0.0442 -0.0027 -0.0057 0.0008 0.0146 -0.0250  
 0.0238 0.0160 -0.0200 0.0125 -0.0441 -0.0062 -0.0059 0.0124 0.0020 -0.0150 -0.0084 -0.0191 -0.0131 -0.0238 -0.0110  
 0.0302 -0.0120 -0.0448 0.0363 -0.0348 -0.0126 -0.0270 0.0176 0.0069 -0.0524 0.0107 -0.0178 -0.0063 -0.0504 0.0222  
  
 Columns 5,221 through 5,235  
  
 -0.0172 0.0157 0.0018 0.0101 -0.0003 -0.0239 -0.0018 -0.0049 -0.0138 0.0070 -0.0120 0.0355 -0.0084 0.0134 -0.0323  
 0.0248 0.0045 0.0034 -0.0193 0.0137 -0.0011 -0.0133 -0.0194 -0.0421 0.0029 -0.0181 0.0189 0.0057 -0.0069 -0.0230  
 0.0416 -0.0122 -0.0007 -0.0318 0.0221 0.0152 -0.0059 -0.0099 -0.0313 -0.0189 -0.0037 0.0013 0.0181 -0.0289 -0.0008  
  
 Columns 5,236 through 5,250  
  
 -0.0131 -0.0090 0.0238 -0.0178 0.0239 0.0269 0.0064 -0.0056 -0.0064 -0.0145 0.0009 0.0098 0.0158 -0.0202 -0.0330  
 -0.0092 0.0008 0.0375 -0.0254 0.0046 0.0410 0.0095 -0.0173 0.0355 -0.0739 -0.0132 0.0477 0.0124 0.0252 -0.0136  
 -0.0007 0.0168 0.0239 -0.0095 -0.0106 0.0334 0.0040 -0.0070 0.0613 -0.0786 -0.0174 0.0540 -0.0012 0.0545 0.0076  
  
 Columns 5,251 through 5,265  
  
 -0.0029 0.0201 0.0419 0.0126 -0.0062 0.0125 0.0079 0.0022 -0.0048 -0.0129 -0.0051 0.0395 -0.0323 0.0002 0.0048  
 0.0084 0.0248 0.0568 -0.0103 0.0315 -0.0113 0.0055 0.0018 -0.0190 0.0024 -0.0312 -0.0431 -0.0090 0.0029 0.0383  
 0.0274 0.0155 0.0249 -0.0277 0.0400 -0.0241 0.0118 -0.0118 -0.0149 -0.0014 -0.0232 -0.0767 0.0176 -0.0011 0.0461  
  
 Columns 5,266 through 5,280  
  
 -0.0396 -0.0114 -0.0288 0.0002 -0.0155 -0.0113 0.0096 0.0042 -0.0125 0.0230 0.0168 -0.0233 -0.0150 0.0016 0.0079  
 0.0003 0.0081 -0.0008 0.0074 -0.0144 -0.0035 -0.0023 -0.0064 0.0451 -0.0243 -0.0010 -0.0100 0.0059 0.0494 0.0185  
 0.0378 0.0083 0.0223 0.0008 0.0063 0.0059 -0.0021 -0.0121 0.0563 -0.0432 -0.0194 0.0098 0.0192 0.0608 0.0107  
  
 Columns 5,281 through 5,295  
  
 -0.0208 0.0184 0.0272 0.0059 -0.0008 -0.0125 0.0130 0.0087 0.0159 -0.0025 -0.0187 -0.0014 0.0262 0.0386 0.0280  
 -0.0339 -0.0401 0.0180 -0.0058 -0.0369 -0.0004 -0.0493 0.0312 -0.0009 0.0040 -0.0021 0.0204 -0.0019 0.0370 0.0101  
 -0.0337 -0.0696 -0.0083 0.0025 -0.0585 0.0024 -0.0807 0.0222 -0.0198 0.0152 -0.0019 0.0259 -0.0250 0.0130 -0.0153  
  
 Columns 5,296 through 5,310  
  
 -0.0190 -0.0022 -0.0033 0.0072 0.0209 -0.0216 -0.0301 0.0094 -0.0300 0.0332 -0.0191 -0.0107 0.0017 0.0287 -0.0033  
 0.0249 0.0153 -0.0034 0.0266 -0.0166 0.0112 0.0209 -0.0211 0.0161 0.0041 -0.0196 0.0029 0.0173 0.0563 0.0198  
 0.0465 0.0274 0.0004 0.0107 -0.0383 0.0312 0.0309 -0.0432 0.0493 -0.0315 -0.0130 0.0165 0.0204 0.0369 0.0249  
  
 Columns 5,311 through 5,325  
  
 0.0113 0.0080 -0.0163 0.0013 0.0012 0.0283 -0.0088 -0.0269 -0.0126 0.0372 -0.0123 0.0165 -0.0299 -0.0080 -0.0197  
 0.0021 -0.0279 -0.0176 0.0169 -0.0249 0.0226 0.0175 0.0047 -0.0055 -0.0090 -0.0128 -0.0278 -0.0224 0.0258 -0.0449  
 -0.0021 -0.0238 -0.0239 0.0273 -0.0350 -0.0036 0.0358 0.0244 0.0114 -0.0413 -0.0039 -0.0497 -0.0044 0.0448 -0.0245  
  
 Columns 5,326 through 5,340  
  
 -0.0345 0.0256 0.0079 -0.0473 -0.0144 0.0116 -0.0003 -0.0396 0.0027 -0.0186 0.0199 0.0097 -0.0103 -0.0112 0.0186  
 -0.0337 -0.0026 0.0224 -0.0346 -0.0029 0.0376 -0.0006 -0.0489 -0.0067 -0.0115 -0.0078 -0.0207 -0.0264 0.0314 -0.0072  
 0.0030 -0.0314 0.0302 -0.0028 -0.0023 0.0382 -0.0148 -0.0265 -0.0014 0.0130 -0.0286 -0.0374 -0.0256 0.0353 -0.0264  
  
 Columns 5,341 through 5,355  
  
 -0.0021 -0.0000 -0.0417 -0.0008 -0.0127 0.0212 0.0117 0.0387 -0.0356 -0.0217 -0.0157 0.0104 0.0232 0.0241 0.0235  
 0.0023 0.0002 -0.0511 -0.0228 0.0021 0.0102 -0.0455 0.0146 0.0035 -0.0068 0.0165 -0.0037 -0.0453 -0.0015 -0.0320  
 0.0098 -0.0054 -0.0255 -0.0217 0.0075 -0.0078 -0.0793 -0.0323 0.0441 0.0052 0.0465 -0.0066 -0.0768 -0.0245 -0.0559  
  
 Columns 5,356 through 5,370  
  
 0.0352 -0.0121 0.0233 0.0065 0.0069 -0.0037 -0.0202 0.0052 0.0262 -0.0062 -0.0020 0.0076 -0.0111 -0.0290 -0.0135  
 -0.0167 0.0059 0.0081 -0.0155 0.0172 -0.0416 0.0105 0.0236 0.0277 -0.0494 0.0208 -0.0058 -0.0059 -0.0147 0.0002  
 -0.0652 0.0197 -0.0111 -0.0095 0.0202 -0.0551 0.0361 0.0299 -0.0032 -0.0512 0.0268 -0.0159 0.0009 0.0110 0.0092  
  
 Columns 5,371 through 5,385  
  
 -0.0433 -0.0496 -0.0291 -0.0069 -0.0251 0.0086 0.0163 -0.0236 -0.0018 0.0024 0.0400 0.0124 0.0267 0.0111 -0.0396  
 -0.0263 -0.0234 -0.0065 0.0127 0.0177 -0.0001 0.0244 -0.0138 -0.0179 0.0032 -0.0087 0.0177 0.0192 -0.0113 -0.0326  
 -0.0040 0.0154 0.0271 0.0198 0.0506 -0.0311 0.0252 -0.0011 -0.0111 -0.0022 -0.0512 0.0184 -0.0060 -0.0238 -0.0159  
  
 Columns 5,386 through 5,400  
  
 0.0145 -0.0298 0.0122 -0.0497 -0.0174 0.0200 -0.0281 -0.0502 0.0567 0.0068 0.0161 -0.0015 -0.0138 -0.0118 -0.0018  
 -0.0079 -0.0085 0.0379 -0.0281 0.0309 -0.0068 0.0050 -0.0032 -0.0075 -0.0083 0.0097 0.0310 0.0234 -0.0192 -0.0277  
 -0.0251 0.0085 0.0224 0.0111 0.0520 -0.0293 0.0199 0.0425 -0.0609 -0.0181 -0.0161 0.0378 0.0411 -0.0153 -0.0276  
  
 Columns 5,401 through 5,415  
  
 -0.0118 0.0121 0.0120 -0.0359 0.0148 -0.0018 -0.0173 0.0265 0.0071 -0.0264 -0.0100 -0.0078 -0.0134 -0.0687 -0.0020  
 0.0030 0.0014 -0.0592 -0.0197 0.0463 0.0249 -0.0099 -0.0132 -0.0221 -0.0216 0.0000 -0.0396 0.0127 0.0099 -0.0126  
 0.0097 -0.0201 -0.0796 -0.0041 0.0354 0.0553 0.0106 -0.0326 -0.0146 -0.0070 0.0039 -0.0514 0.0337 0.0726 -0.0111  
  
 Columns 5,416 through 5,430  
  
 -0.0323 -0.0181 0.0170 0.0123 0.0255 0.0301 0.0040 0.0258 -0.0116 0.0048 0.0149 0.0059 0.0054 -0.0283 0.0050  
 -0.0118 0.0259 0.0070 0.0347 0.0030 -0.0081 -0.0319 -0.0070 0.0179 0.0166 0.0001 0.0220 -0.0246 0.0033 -0.0130  
 -0.0013 0.0585 -0.0023 0.0176 0.0061 -0.0519 -0.0490 -0.0253 0.0384 0.0062 -0.0181 0.0116 -0.0358 0.0281 -0.0202  
  
 Columns 5,431 through 5,445  
  
 0.0267 -0.0051 -0.0056 -0.0145 0.0051 0.0135 -0.0073 -0.0081 -0.0132 0.0224 -0.0030 0.0165 0.0155 -0.0004 0.0355  
 -0.0083 -0.0437 0.0178 0.0389 0.0031 0.0137 -0.0006 -0.0341 -0.0319 -0.0034 0.0264 0.0087 0.0137 -0.0346 -0.0172  
 -0.0281 -0.0292 0.0259 0.0544 -0.0090 -0.0138 0.0049 -0.0352 -0.0330 -0.0129 0.0336 0.0106 0.0100 -0.0418 -0.0662  
  
 Columns 5,446 through 5,460  
  
 -0.0363 -0.0229 -0.0145 -0.0460 -0.0357 -0.0029 0.0352 0.0260 0.0247 -0.0008 0.0019 -0.0277 0.0124 -0.0187 -0.0085  
 -0.0444 -0.0218 -0.0003 0.0352 -0.0013 -0.0117 0.0248 0.0190 -0.0481 -0.0264 -0.0133 -0.0158 -0.0440 -0.0264 -0.0232  
 -0.0196 -0.0064 -0.0015 0.0818 0.0233 -0.0225 -0.0073 -0.0027 -0.0714 -0.0159 -0.0116 0.0138 -0.0680 -0.0204 -0.0191  
  
 Columns 5,461 through 5,475  
  
 0.0139 0.0266 -0.0165 -0.0411 -0.0060 -0.0276 0.0549 -0.0114 -0.0393 -0.0230 -0.0327 0.0149 -0.0072 0.0238 0.0468  
 0.0279 -0.0111 -0.0214 -0.0085 -0.0020 -0.0088 0.0258 -0.0292 0.0027 -0.0127 -0.0418 -0.0082 0.0206 0.0011 -0.0127  
 0.0197 -0.0363 -0.0006 0.0324 0.0159 0.0048 0.0015 -0.0169 0.0330 0.0050 -0.0388 -0.0140 0.0324 -0.0194 -0.0408  
  
 Columns 5,476 through 5,490  
  
 0.0419 0.0253 0.0222 -0.0146 0.0177 -0.0073 0.0421 0.0142 0.0131 -0.0235 -0.0227 -0.0613 -0.0389 -0.0463 0.0100  
 0.0516 0.0124 0.0106 0.0169 -0.0121 0.0342 0.0022 0.0044 0.0212 -0.0041 -0.0476 -0.0033 0.0248 0.0080 0.0070  
 0.0175 0.0065 -0.0064 0.0411 -0.0155 0.0510 -0.0428 -0.0082 0.0019 0.0121 -0.0376 0.0549 0.0648 0.0377 -0.0013  
  
 Columns 5,491 through 5,505  
  
 0.0564 -0.0102 0.0068 -0.0094 -0.0493 0.0675 -0.0056 0.0413 0.0290 -0.0142 -0.0258 0.0223 0.0049 -0.0222 0.0010  
 -0.0326 0.0239 0.0043 -0.0113 0.0108 0.0140 -0.0910 -0.0342 -0.0134 -0.0321 -0.0024 0.0193 -0.0260 0.0347 -0.0055

-0.0873 0.0358 0.0030 -0.0170 0.0450 -0.0475 -0.1012 -0.0760 -0.0391 -0.0239 0.0178 0.0133 -0.0428 0.0680 0.0039  
  
 Columns 5,506 through 5,520  
  
 -0.0307 -0.0361 -0.0209 -0.0613 -0.0111 -0.0162 0.0040 -0.0012 0.0016 0.0126 -0.0112 0.0560 -0.0420 -0.0105 -0.0081  
 -0.0189 -0.0272 -0.0119 -0.0083 -0.0241 -0.0082 0.0282 0.0273 -0.0382 0.0210 -0.0155 0.0192 -0.0142 -0.0028 -0.0020  
 -0.0002 -0.0048 0.0151 0.0436 -0.0089 0.0061 0.0357 0.0394 -0.0386 0.0212 -0.0106 -0.0267 0.0102 0.0114 0.0043  
  
 Columns 5,521 through 5,535  
  
 -0.0122 0.0130 0.0165 -0.0252 -0.0292 -0.0183 -0.0001 0.0286 -0.0210 -0.0187 -0.0138 -0.0165 -0.0060 -0.0116 0.0140  
 0.0167 0.0167 -0.0182 -0.0399 -0.0144 0.0140 0.0008 0.0058 -0.0113 -0.0223 0.0558 -0.0079 -0.0144 -0.0075 0.0201  
 0.0333 0.0056 -0.0377 -0.0278 0.0088 0.0256 -0.0052 -0.0250 0.0073 -0.0104 0.0833 0.0027 -0.0220 0.0022 0.0247  
  
 Columns 5,536 through 5,550  
  
 0.0088 0.0002 0.0049 -0.0094 -0.0004 0.0221 0.0113 -0.0103 0.0065 0.0188 -0.0358 -0.0253 0.0179 0.0081 0.0275  
 -0.0263 -0.0289 0.0022 0.0094 -0.0021 -0.0118 0.0173 0.0170 0.0341 -0.0179 0.0040 -0.0057 0.0072 0.0238 0.0060  
 -0.0550 -0.0368 -0.0105 -0.0009 -0.0075 -0.0306 0.0223 0.0237 0.0256 -0.0262 0.0416 0.0227 -0.0147 0.0360 -0.0037  
  
 Columns 5,551 through 5,565  
  
 -0.0042 0.0128 0.0274 -0.0144 0.0336 0.0091 -0.0176 0.0342 -0.0130 -0.0169 -0.0009 0.0199 0.0271 -0.0087 0.0399  
 -0.0484 -0.0268 -0.0149 0.0041 0.0185 -0.0054 -0.0056 0.0190 0.0087 -0.0112 -0.0169 0.0265 0.0541 0.0139 0.0081  
 -0.0561 -0.0419 -0.0448 0.0281 -0.0205 -0.0079 -0.0010 -0.0144 0.0258 -0.0073 -0.0206 0.0161 0.0481 0.0269 -0.0298  
  
 Columns 5,566 through 5,580  
  
 0.0048 0.0323 -0.0062 -0.0240 -0.0321 0.0225 -0.0002 0.0196 -0.0061 -0.0148 0.0156 -0.0263 -0.0219 0.0447 -0.0295  
 0.0188 0.0243 -0.0151 -0.0119 -0.0004 -0.0017 0.0240 -0.0358 0.0193 -0.0039 -0.0171 -0.0006 0.0072 -0.0108 -0.0152  
 0.0281 -0.0046 -0.0172 0.0106 0.0205 -0.0197 0.0302 -0.0615 0.0179 0.0217 -0.0547 0.0346 0.0219 -0.0376 0.0207  
  
 Columns 5,581 through 5,595  
  
 -0.0233 -0.0274 0.0021 -0.0122 -0.0205 0.0233 0.0221 0.0106 -0.0011 0.0199 -0.0051 -0.0066 -0.0217 -0.0173 -0.0086  
 0.0228 -0.0289 -0.0059 -0.0118 -0.0132 0.0031 0.0114 0.0080 0.0329 -0.0296 -0.0062 -0.0102 0.0053 -0.0164 -0.0476  
 0.0359 -0.0107 0.0002 -0.0127 0.0103 -0.0200 -0.0230 0.0041 0.0319 -0.0498 -0.0017 0.0039 0.0247 0.0101 -0.0509  
  
 Columns 5,596 through 5,610  
  
 0.0094 -0.0080 -0.0060 0.0083 -0.0010 0.0054 -0.0050 0.0307 0.0174 -0.0266 0.0145 0.0471 0.0162 0.0416 0.0179  
 -0.0080 -0.0476 -0.0325 -0.0045 -0.0142 0.0151 0.0012 -0.0107 -0.0293 0.0074 0.0020 -0.0421 0.0377 0.0257 -0.0324  
 -0.0174 -0.0504 -0.0409 -0.0062 0.0063 0.0133 0.0011 -0.0394 -0.0479 0.0469 -0.0071 -0.0875 0.0327 0.0010 -0.0473  
  
 Columns 5,611 through 5,625  
  
 -0.0158 -0.0135 -0.0221 0.0413 -0.0252 0.0284 -0.0479 0.0154 0.0213 -0.0573 -0.0144 -0.0469 0.0040 -0.0512 -0.0146  
 0.0334 0.0117 -0.0281 -0.0117 0.0156 -0.0342 -0.0228 -0.0047 0.0076 0.0010 -0.0162 -0.0141 0.0133 -0.0467 -0.0485  
 0.0426 0.0400 -0.0042 -0.0459 0.0510 -0.0677 0.0119 -0.0226 0.0025 0.0552 -0.0036 0.0238 0.0187 0.0026 -0.0435  
  
 Columns 5,626 through 5,640  
  
 0.0060 0.0242 -0.0319 -0.0093 0.0045 -0.0247 -0.0473 0.0203 0.0112 0.0299 -0.0146 0.0087 -0.0055 -0.0050 -0.0203  
 -0.0225 -0.0172 -0.0009 -0.0140 0.0261 0.0326 -0.0161 0.0676 -0.0021 0.0234 0.0033 -0.0318 0.0396 -0.0356 -0.0000  
 -0.0294 -0.0603 0.0260 -0.0039 0.0211 0.0669 0.0187 0.0476 -0.0081 -0.0031 0.0224 -0.0373 0.0467 -0.0447 0.0187  
  
 Columns 5,641 through 5,655  
  
 -0.0050 0.0023 -0.0262 -0.0030 0.0450 -0.0260 -0.0077 -0.0141 -0.0100 -0.0107 -0.0382 -0.0046 0.0043 -0.0251 0.0110  
 0.0387 0.0230 0.0080 -0.0092 0.0043 0.0310 -0.0075 -0.0081 -0.0084 -0.0024 -0.0171 0.0101 -0.0078 -0.0146 0.0355  
 0.0437 0.0307 0.0347 -0.0124 -0.0414 0.0498 0.0019 0.0024 0.0024 0.0143 0.0075 0.0123 -0.0217 0.0114 0.0267  
  
 Columns 5,656 through 5,670  
  
 0.0151 -0.0036 -0.0123 0.0228 -0.0126 0.0122 -0.0327 0.0060 -0.0032 -0.0154 -0.0502 0.0135 0.0133 -0.0143 -0.0300  
 -0.0207 0.0077 0.0093 -0.0212 -0.0106 -0.0077 -0.0484 0.0494 -0.0184 0.0031 -0.0051 -0.0162 0.0077 0.0004 -0.0431  
 -0.0389 0.0257 0.0293 -0.0312 0.0117 -0.0014 -0.0101 0.0496 -0.0189 0.0046 0.0396 -0.0259 0.0030 0.0069 -0.0331  
  
 Columns 5,671 through 5,685  
  
 0.0269 0.0190 0.0270 0.0246 0.0007 0.0162 0.0465 -0.0002 0.0144 0.0139 0.0143 -0.0085 0.0078 -0.0066 -0.0028  
 0.0291 0.0326 -0.0076 0.0211 -0.0270 0.0164 -0.0003 0.0276 -0.0287 0.0340 0.0152 -0.0040 0.0350 0.0189 -0.0171  
 0.0071 0.0219 -0.0401 0.0052 -0.0301 0.0050 -0.0446 0.0227 -0.0523 0.0133 0.0157 -0.0085 0.0329 0.0221 -0.0136  
  
 Columns 5,686 through 5,700  
  
 0.0048 -0.0126 -0.0433 0.0213 0.0169 0.0029 0.0486 0.0111 0.0620 0.0184 0.0172 -0.0156 0.0100 0.0056 -0.0128  
 -0.0255 -0.0092 0.0188 -0.0076 -0.0168 0.0008 0.0261 -0.0036 0.0223 -0.0472 -0.0228 -0.0318 -0.0107 -0.0028 -0.0052  
 -0.0372 0.0127 0.0591 -0.0338 -0.0415 -0.0029 -0.0174 -0.0151 -0.0236 -0.0661 -0.0492 -0.0264 -0.0184 0.0041 0.0108  
  
 Columns 5,701 through 5,715  
  
 -0.0162 0.0261 -0.0218 -0.0037 -0.0313 -0.0187 0.0287 -0.0272 -0.0127 0.0016 -0.0055 0.0052 -0.0604 0.0124 0.0247  
 -0.0074 0.0156 0.0309 -0.0395 0.0304 0.0291 0.0215 0.0417 0.0155 -0.0132 0.0087 0.0568 -0.0430 -0.0237 0.0291  
 0.0114 -0.0082 0.0546 -0.0442 0.0566 0.0510 0.0124 0.0787 0.0387 -0.0074 0.0001 0.0633 -0.0099 -0.0397 0.0104  
  
 Columns 5,716 through 5,730  
  
 -0.0051 -0.0040 -0.0263 -0.0227 0.0205 -0.0475 -0.0266 -0.0163 -0.0090 -0.0317 -0.0327 -0.0016 0.0094 0.0410 0.0348  
 0.0014 -0.0227 0.0147 -0.0144 -0.0161 -0.0157 -0.0217 0.0107 -0.0219 -0.0109 0.0051 -0.0069 0.0071 -0.0088 0.0186  
 0.0085 -0.0138 0.0307 -0.0029 -0.0367 0.0280 -0.0068 0.0187 -0.0114 0.0004 0.0225 0.0052 -0.0021 -0.0251 -0.0117  
  
 Columns 5,731 through 5,745  
  
 0.0268 0.0067 -0.0166 -0.0206 -0.0306 -0.0436 -0.0230 0.0111 -0.0000 -0.0204 -0.0365 0.0400 0.0182 0.0195 0.0181  
 -0.0159 0.0086 0.0241 -0.0097 -0.0470 0.0108 -0.0023 0.0368 -0.0227 -0.0437 0.0300 0.0004 0.0163 -0.0299 0.0134  
 -0.0358 -0.0058 0.0560 0.0095 -0.0334 0.0382 0.0153 0.0286 -0.0456 -0.0310 0.0623 -0.0333 -0.0043 -0.0647 -0.0037  
  
 Columns 5,746 through 5,760  
  
 0.0439 -0.0370 0.0151 0.0286 -0.0248 -0.0476 0.0337 0.0092 0.0320 -0.0019 0.0010 -0.0113 -0.0047 -0.0031 -0.0062  
 0.0386 0.0172 0.0109 0.0082 -0.0080 -0.0185 -0.0067 0.0056 -0.0028 -0.0486 0.0020 -0.0113 -0.0020 0.0369 0.0202  
 0.0164 0.0509 -0.0035 -0.0114 0.0059 0.0046 -0.0321 -0.0092 -0.0160 -0.0567 -0.0002 -0.0154 -0.0037 0.0411 0.0216  
  
 Columns 5,761 through 5,775  
  
 0.0119 -0.0151 0.0048 0.0060 -0.0217 0.0380 -0.0005 0.0192 0.0038 0.0091 -0.0118 0.0186 0.0008 0.0111 0.0008  
 0.0499 0.0050 0.0122 -0.0017 -0.0248 -0.0349 0.0070 0.0252 -0.0144 -0.0058 -0.0052 -0.0165 -0.0013 0.0002 0.0071  
 0.0501 0.0206 0.0012 0.0024 -0.0232 -0.0725 0.0131 0.0124 -0.0112 -0.0162 0.0162 -0.0352 -0.0217 -0.0119 -0.0017  
  
 Columns 5,776 through 5,790  
  
 -0.0205 0.0016 0.0307 -0.0259 0.0206 0.0120 0.0260 -0.0143 0.0083 0.0346 0.0166 -0.0587 0.0095 0.0184 0.0090  
 -0.0014 0.0152 -0.0534 -0.0227 0.0099 0.0192 0.0390 -0.0194 -0.0095 0.0140 0.0198 -0.0080 0.0303 -0.0060 0.0046  
 0.0096 0.0098 -0.0919 0.0012 0.0028 0.0194 0.0288 -0.0115 -0.0150 -0.0009 0.0090 0.0406 0.0283 -0.0148 -0.0081  
  
 Columns 5,791 through 5,805  
  
 -0.0159 0.0104 -0.0047 -0.0014 -0.0125 0.0158 -0.0314 -0.0275 0.0135 0.0215 -0.0338 -0.0327 -0.0111 -0.0066 -0.0454  
 0.0006 -0.0296 0.0135 0.0398 -0.0401 -0.0156 -0.0346 0.0102 -0.0037 0.0136 -0.0322 -0.0430 0.0307 0.0031 -0.0127  
 0.0093 -0.0363 0.0258 0.0458 -0.0436 -0.0342 -0.0172 0.0250 -0.0096 -0.0096 0.0026 -0.0164 0.0523 0.0008 0.0142  
  
 Columns 5,806 through 5,820  
  
 -0.0202 -0.0004 -0.0009 0.0332 0.0103 0.0227 -0.0340 -0.0202 0.0051 0.0196 -0.0362 0.0022 -0.0130 -0.0245 -0.0152  
 0.0236 0.0062 0.0025 0.0047 0.0004 -0.0264 -0.0167 -0.0142 0.0143 0.0175 -0.0035 0.0074 0.0048 0.0222 0.0117  
 0.0479 0.0113 0.0030 -0.0061 -0.0097 -0.0533 0.0185 0.0015 0.0208 -0.0171 0.0215 0.0044 0.0117 0.0445 0.0268  
  
 Columns 5,821 through 5,835  
  
 -0.0167 0.0383 0.0369 0.0053 -0.0087 0.0421 0.0011 0.0007 -0.0192 0.0079 -0.0186 0.0047 -0.0198 0.0282 0.0232  
 0.0148 -0.0016 -0.0002 -0.0442 -0.0027 0.0398 -0.0121 0.0066 -0.0014 0.0097 -0.0341 0.0417 -0.0028 0.0135 -0.0124  
 0.0450 -0.0326 -0.0494 -0.0596 0.0025 0.0184 -0.0207 0.0008 0.0129 -0.0005 -0.0395 0.0448 0.0062 -0.0040 -0.0238  
  
 Columns 5,836 through 5,850  
  
 0.0012 0.0422 -0.0214 -0.0116 -0.0151 -0.0134 -0.0533 0.0186 0.0122 -0.0255 -0.0260 0.0560 -0.0149 -0.0391 0.0027  
 -0.0224 -0.0165 -0.0173 -0.0382 -0.0051 -0.0065 -0.0277 0.0389 0.0351 0.0327 0.0073 0.0241 -0.0095 -0.0046 -0.0166  
 -0.0420 -0.0460 -0.0073 -0.0399 0.0061 -0.0027 0.0076 0.0262 0.0303 0.0623 0.0286 -0.0237 0.0092 0.0273 -0.0131  
  
 Columns 5,851 through 5,865  
  
 -0.0039 -0.0200 0.0234 -0.0074 0.0138 0.0208 -0.0184 -0.0010 0.0464 -0.0175 -0.0051 0.0199 -0.0060 0.0379 0.0070  
 -0.0044 0.0098 -0.0218 -0.0014 -0.0425 0.0290 0.0212 0.0315 -0.0217 -0.0348 -0.0197 0.0032 -0.0208 -0.0274 0.0129  
 -0.0097 0.0165 -0.0448 0.0089 -0.0692 0.0250 0.0358 0.0409 -0.0690 -0.0378 -0.0322 -0.0055 -0.0249 -0.0417 0.0058  
  
 Columns 5,866 through 5,880  
  
 0.0215 0.0049 -0.0237 0.0120 0.0039 -0.0126 -0.0289 -0.0041 -0.0174 -0.0073 0.0132 -0.0304 0.0483 0.0152 -0.0049  
 0.0049 0.0104 -0.0023 -0.0491 -0.0146 -0.0030 0.0052 0.0029 0.0068 0.0098 0.0233 0.0307 -0.0174 0.0501 0.0031  
 -0.0069 0.0019 0.0138 -0.0499 -0.0270 -0.0092 0.0181 0.0163 0.0204 0.0220 0.0148 0.0521 -0.0646 0.0426 0.0067  
  
 Columns 5,881 through 5,895  
  
 -0.0185 0.0024 0.0111 -0.0202 -0.0224 0.0031 -0.0057 -0.0071 -0.0187 -0.0000 -0.0059 0.0406 0.0140 0.0176 -0.0134  
 -0.0140 -0.0175 0.0115 -0.0078 0.0181 0.0067 0.0001 -0.0201 -0.0221 -0.0109 -0.0039 0.0229 0.0174 0.0029 -0.0144  
 0.0066 -0.0210 0.0096 0.0018 0.0504 -0.0064 -0.0014 -0.0125 -0.0116 -0.0064 0.0101 -0.0021 0.0140 -0.0072 0.0048  
  
 Columns 5,896 through 5,910  
  
 0.0001 0.0274 -0.0028 -0.0078 -0.0091 0.0333 0.0260 -0.0103 0.0009 0.0252 0.0003 0.0197 -0.0247 -0.0102 -0.0083  
 -0.0028 0.0136 0.0052 0.0235 -0.0154 0.0263 0.0300 -0.0140 0.0007 -0.0066 -0.0430 -0.0281 -0.0238 -0.0023 -0.0190  
 0.0010 -0.0123 0.0158 0.0257 -0.0051 0.0133 0.0107 -0.0002 0.0016 -0.0139 -0.0674 -0.0466 -0.0041 -0.0019 -0.0248  
  
 Columns 5,911 through 5,925  
  
 0.0219 -0.0168 0.0204 -0.0000 0.0081 -0.0006 0.0218 0.0196 0.0232 0.0173 -0.0542 -0.0134 0.0197 -0.0279 -0.0309  
 0.0100 0.0188 0.0029 0.0195 0.0101 0.0469 0.0249 -0.0417 0.0100 0.0090 0.0168 0.0212 -0.0069 0.0037 0.0125  
 -0.0137 0.0336 -0.0220 0.0234 -0.0032 0.0468 0.0125 -0.0728 -0.0092 -0.0127 0.0688 0.0393 -0.0235 0.0346 0.0488  
  
 Columns 5,926 through 5,940  
  
 0.0152 0.0250 0.0480 0.0124 0.0285 -0.0413 0.0178 -0.0141 0.0532 -0.0031 0.0225 -0.0028 -0.0051 0.0289 0.0030  
 0.0096 0.0504 -0.0354 0.0238 0.0409 -0.0194 0.0115 0.0026 -0.0020 -0.0104 0.0474 -0.0061 0.0060 -0.0304 -0.0247  
 -0.0003 0.0347 -0.0864 0.0178 0.0292 0.0144 -0.0049 0.0211 -0.0363 -0.0197 0.0385 -0.0013 0.0043 -0.0669 -0.0337  
  
 Columns 5,941 through 5,955  
  
 -0.0149 0.0272 0.0150 -0.0052 0.0015 -0.0218 0.0156 0.0460 0.0158 0.0151 -0.0335 -0.0340 -0.0198 -0.0159 0.0082  
 -0.0369 -0.0323 -0.0258 -0.0022 0.0030 -0.0332 -0.0082 -0.0111 -0.0054 0.0018 -0.0031 -0.0133 0.0033 0.0410 0.0243  
 -0.0338 -0.0629 -0.0475 0.0189 0.0134 -0.0114 -0.0217 -0.0526 -0.0106 -0.0050 0.0036 0.0075 0.0179 0.0658 0.0266  
  
 Columns 5,956 through 5,970  
  
 -0.0081 -0.0085 -0.0214 0.0096 -0.0047 0.0102 0.0275 -0.0118 -0.0065 0.0570 -0.0357 -0.0282 -0.0199 0.0122 -0.0031  
 -0.0049 0.0253 0.0422 -0.0068 0.0294 -0.0208 -0.0048 -0.0189 -0.0062 -0.0321 -0.0378 -0.0121 0.0068 0.0276 0.0078  
 -0.0042 0.0371 0.0606 -0.0128 0.0464 -0.0353 -0.0119 -0.0124 -0.0045 -0.0816 -0.0076 0.0052 0.0214 0.0272 0.0098  
  
 Columns 5,971 through 5,985  
  
 0.0192 0.0008 -0.0171 0.0047 0.0060 0.0141 0.0115 -0.0217 0.0352 -0.0111 0.0066 -0.0059 0.0114 -0.0263 0.0101  
 -0.0060 0.0167 0.0437 0.0551 -0.0097 0.0421 0.0012 -0.0168 -0.0031 0.0164 -0.0102 0.0165 0.0048 -0.0041 -0.0184  
 -0.0275 0.0218 0.0541 0.0655 -0.0241 0.0414 0.0034 -0.0191 -0.0443 0.0285 -0.0023 0.0263 -0.0052 0.0113 -0.0260  
  
 Columns 5,986 through 6,000  
  
 0.0269 0.0365 -0.0311 0.0071 0.0219 -0.0233 0.0309 0.0064 -0.0042 0.0148 -0.0155 -0.0111 -0.0160 0.0008 0.0049  
 -0.0007 -0.0136 -0.0203 -0.0253 -0.0007 -0.0035 0.0233 -0.0205 -0.0039 0.0206 0.0234 -0.0398 0.0143 -0.0195 0.0254  
 -0.0204 -0.0324 0.0054 -0.0381 -0.0161 0.0130 -0.0014 -0.0258 -0.0095 0.0044 0.0429 -0.0362 0.0298 -0.0363 0.0178

Columns 6,001 through 6,015  
  
 -0.0313 0.0370 0.0034 0.0136 -0.0195 0.0098 0.0195 0.0291 -0.0152 0.0019 -0.0044 -0.0230 -0.0213 -0.0083 -0.0275  
 0.0052 0.0003 0.0034 0.0232 -0.0586 0.0044 -0.0115 -0.0306 -0.0527 0.0099 -0.0138 0.0225 -0.0419 0.0145 0.0106  
 0.0230 -0.0294 -0.0021 0.0226 -0.0479 0.0115 -0.0346 -0.0672 -0.0450 0.0010 -0.0108 0.0443 -0.0430 0.0180 0.0345  
  
 Columns 6,016 through 6,030  
  
 -0.0013 -0.0058 0.0082 -0.0036 0.0352 0.0009 -0.0054 0.0345 -0.0054 -0.0127 -0.0059 0.0075 0.0293 0.0053 -0.0108  
 0.0287 -0.0136 -0.0121 -0.0162 0.0048 0.0002 -0.0231 0.0048 -0.0150 -0.0246 0.0131 -0.0123 -0.0105 0.0098 0.0088  
 0.0474 -0.0004 -0.0287 -0.0193 -0.0061 0.0086 -0.0080 -0.0219 -0.0205 -0.0197 0.0192 -0.0109 -0.0453 0.0037 0.0240  
  
 Columns 6,031 through 6,045  
  
 -0.0256 -0.0023 0.0261 -0.0099 -0.0276 -0.0170 0.0163 0.0054 -0.0171 -0.0288 -0.0115 0.0092 -0.0243 -0.0279 0.0107  
 -0.0345 -0.0028 -0.0135 -0.0130 -0.0342 -0.0067 -0.0063 0.0206 -0.0077 0.0121 -0.0157 -0.0279 -0.0311 -0.0200 0.0091  
 0.0050 0.0123 -0.0449 -0.0049 -0.0135 0.0044 -0.0254 0.0098 -0.0005 0.0387 -0.0172 -0.0282 -0.0080 0.0031 0.0164  
  
 Columns 6,046 through 6,060  
  
 0.0197 0.0192 -0.0168 -0.0247 -0.0214 0.0220 -0.0060 0.0067 -0.0080 0.0080 -0.0179 0.0209 -0.0118 0.0171 -0.0268  
 0.0081 -0.0082 -0.0169 -0.0002 -0.0219 -0.0117 -0.0122 -0.0346 0.0226 0.0008 0.0287 0.0029 0.0239 0.0103 -0.0050  
 -0.0152 -0.0187 -0.0042 0.0191 -0.0111 -0.0206 -0.0073 -0.0621 0.0392 -0.0108 0.0642 -0.0057 0.0167 0.0013 0.0354  
  
 Columns 6,061 through 6,075  
  
 -0.0225 0.0450 0.0243 -0.0082 -0.0042 -0.0252 0.0296 0.0168 -0.0116 0.0326 -0.0116 -0.0033 0.0358 -0.0022 -0.0172  
 -0.0395 0.0159 -0.0100 -0.0135 -0.0084 -0.0447 0.0196 0.0423 0.0101 -0.0094 0.0161 0.0116 -0.0290 -0.0119 0.0077  
 -0.0297 -0.0152 -0.0362 0.0085 -0.0031 -0.0313 -0.0041 0.0284 0.0168 -0.0448 0.0163 0.0206 -0.0488 -0.0187 0.0311  
  
 Columns 6,076 through 6,090  
  
 -0.0301 0.0140 -0.0044 -0.0130 0.0143 -0.0216 -0.0035 -0.0122 0.0257 0.0131 0.0049 0.0010 0.0099 -0.0093 0.0219  
 0.0106 -0.0104 0.0270 -0.0369 0.0419 0.0246 -0.0190 0.0061 -0.0170 -0.0061 0.0204 0.0307 0.0186 0.0447 0.0003  
 0.0400 -0.0315 0.0348 -0.0340 0.0197 0.0435 -0.0296 0.0186 -0.0421 -0.0066 0.0343 0.0404 0.0085 0.0556 -0.0147  
  
 Columns 6,091 through 6,105  
  
 0.0237 -0.0031 -0.0218 -0.0130 0.0312 -0.0092 -0.0097 0.0032 0.0091 0.0115 -0.0186 0.0006 -0.0010 0.0081 -0.0093  
 -0.0033 -0.0521 -0.0132 -0.0015 0.0125 -0.0103 -0.0327 -0.0045 0.0478 -0.0125 0.0017 -0.0337 0.0073 0.0275 0.0042  
 -0.0259 -0.0458 0.0017 0.0070 -0.0070 0.0017 -0.0296 -0.0040 0.0420 -0.0178 0.0220 -0.0446 -0.0080 0.0309 0.0144  
  
 Columns 6,106 through 6,120  
  
 -0.0104 -0.0360 -0.0317 -0.0167 -0.0104 -0.0022 0.0572 -0.0124 0.0170 -0.0391 -0.0080 0.0281 0.0254 0.0155 -0.0033  
 -0.0150 0.0261 -0.0016 0.0070 0.0156 0.0238 0.0114 0.0184 0.0182 -0.0017 -0.0222 0.0130 -0.0340 -0.0097 0.0153  
 -0.0187 0.0582 0.0168 0.0307 0.0387 0.0187 -0.0445 0.0438 0.0079 0.0378 -0.0165 -0.0096 -0.0605 -0.0209 0.0124  
  
 Columns 6,121 through 6,135  
  
 -0.0120 0.0308 -0.0447 -0.0128 -0.0011 0.0443 -0.0005 0.0065 -0.0178 0.0187 0.0038 -0.0170 -0.0249 0.0101 -0.0117  
 -0.0158 0.0175 -0.0207 0.0111 -0.0004 -0.0079 -0.0449 0.0325 -0.0127 0.0139 0.0076 -0.0249 0.0186 0.0159 0.0001  
 -0.0055 -0.0012 0.0078 0.0295 -0.0083 -0.0500 -0.0464 0.0378 0.0037 0.0033 -0.0083 -0.0110 0.0368 0.0067 0.0095  
  
 Columns 6,136 through 6,150  
  
 -0.0124 -0.0084 0.0046 0.0138 0.0303 -0.0124 -0.0004 0.0164 -0.0089 0.0086 -0.0248 0.0123 0.0077 -0.0235 0.0130  
 -0.0223 0.0179 0.0147 0.0063 0.0656 0.0017 0.0313 -0.0096 0.0400 -0.0106 -0.0214 0.0073 -0.0385 0.0209 -0.0151  
 -0.0249 0.0199 0.0158 -0.0120 0.0464 0.0045 0.0392 -0.0346 0.0524 -0.0278 0.0022 0.0027 -0.0501 0.0398 -0.0193  
  
 Columns 6,151 through 6,165  
  
 0.0068 0.0384 0.0177 -0.0128 0.0180 0.0111 -0.0302 0.0484 -0.0085 0.0054 0.0152 -0.0198 0.0356 -0.0272 -0.0057  
 0.0132 0.0192 -0.0024 0.0037 -0.0153 0.0148 -0.0027 -0.0040 -0.0189 0.0032 0.0228 -0.0091 0.0164 -0.0363 -0.0254  
 0.0139 -0.0184 -0.0322 0.0126 -0.0311 0.0195 0.0060 -0.0410 -0.0043 0.0151 0.0131 0.0072 -0.0073 -0.0101 -0.0295  
  
 Columns 6,166 through 6,180  
  
 0.0500 0.0297 0.0098 -0.0097 0.0151 0.0188 -0.0332 0.0194 0.0222 -0.0208 0.0175 -0.0214 0.0021 -0.0113 0.0157  
 -0.0027 -0.0243 0.0211 0.0188 -0.0406 0.0166 -0.0367 0.0036 0.0065 0.0373 0.0145 -0.0308 0.0243 0.0123 0.0104  
 -0.0412 -0.0526 0.0087 0.0262 -0.0646 0.0093 -0.0208 -0.0087 -0.0102 0.0609 0.0041 -0.0268 0.0297 0.0183 0.0024  
  
 Columns 6,181 through 6,195  
  
 -0.0142 0.0250 -0.0547 -0.0012 0.0323 -0.0156 -0.0167 0.0269 0.0264 -0.0097 -0.0009 0.0021 0.0370 -0.0134 -0.0266  
 0.0216 0.0021 -0.0309 0.0080 -0.0178 -0.0008 -0.0157 0.0338 0.0080 0.0110 0.0235 0.0247 -0.0059 -0.0309 -0.0510  
 0.0119 -0.0174 0.0022 0.0061 -0.0416 0.0224 -0.0037 0.0131 -0.0247 0.0194 0.0293 0.0290 -0.0495 -0.0198 -0.0415  
  
 Columns 6,196 through 6,210  
  
 -0.0253 -0.0084 0.0313 0.0190 0.0337 -0.0315 0.0109 0.0102 0.0366 -0.0294 -0.0143 0.0294 -0.0134 0.0162 0.0037  
 -0.0007 0.0308 0.0307 0.0224 0.0413 -0.0091 -0.0106 0.0163 -0.0098 0.0405 0.0213 0.0031 -0.0017 0.0149 0.0068  
 0.0232 0.0363 0.0134 0.0047 0.0126 0.0231 -0.0192 0.0001 -0.0416 0.0659 0.0388 -0.0103 0.0175 0.0031 -0.0045  
  
 Columns 6,211 through 6,225  
  
 0.0214 0.0258 0.0097 -0.0067 0.0178 0.0154 0.0024 -0.0234 -0.0153 0.0152 -0.0246 -0.0170 -0.0132 -0.0496 -0.0504  
 0.0371 0.0063 -0.0286 -0.0049 -0.0207 0.0218 0.0226 -0.0061 -0.0258 0.0228 0.0124 -0.0195 -0.0353 0.0148 0.0134  
 0.0292 -0.0201 -0.0464 -0.0050 -0.0282 0.0165 0.0313 0.0083 -0.0176 0.0046 0.0295 -0.0077 -0.0304 0.0589 0.0649  
  
 Columns 6,226 through 6,240  
  
 -0.0271 0.0042 -0.0107 -0.0256 -0.0167 0.0108 -0.0469 0.0030 -0.0008 0.0045 0.0135 -0.0030 0.0093 -0.0264 -0.0017  
 0.0026 -0.0135 0.0136 -0.0154 0.0325 0.0158 -0.0119 -0.0242 0.0246 -0.0302 -0.0217 0.0130 0.0077 0.0380 -0.0083  
 0.0315 -0.0363 0.0238 0.0036 0.0503 0.0139 0.0387 -0.0414 0.0196 -0.0518 -0.0356 0.0056 -0.0004 0.0578 -0.0095  
  
 Columns 6,241 through 6,255  
  
 -0.0147 -0.0039 -0.0353 -0.0113 0.0285 0.0009 -0.0086 0.0222 0.0190 -0.0078 0.0177 -0.0051 0.0111 0.0120 0.0403  
 -0.0000 -0.0043 0.0028 -0.0206 0.0118 0.0271 0.0074 0.0052 -0.0031 -0.0522 0.0386 0.0005 0.0203 0.0168 0.0118  
 0.0017 -0.0043 0.0320 0.0023 -0.0099 0.0379 0.0235 -0.0045 -0.0257 -0.0543 0.0343 -0.0007 0.0183 0.0084 -0.0225  
  
 Columns 6,256 through 6,270  
  
 0.0307 0.0023 -0.0023 0.0352 -0.0053 -0.0701 -0.0103 0.0325 -0.0054 -0.0174 -0.0100 -0.0294 -0.0353 0.0102 0.0054  
 0.0420 -0.0291 -0.0177 0.0264 -0.0104 -0.0045 -0.0349 0.0224 0.0090 -0.0469 -0.0046 -0.0379 -0.0154 -0.0027 0.0303  
 0.0246 -0.0378 -0.0317 -0.0042 -0.0153 0.0482 -0.0268 0.0053 0.0015 -0.0311 0.0055 -0.0210 0.0252 -0.0276 0.0332  
  
 Columns 6,271 through 6,285  
  
 0.0051 -0.0028 0.0043 0.0180 0.0099 0.0560 0.0051 0.0226 -0.0126 0.0271 0.0038 0.0011 0.0081 0.0085 0.0159  
 -0.0107 -0.0195 0.0281 0.0036 0.0067 0.0029 0.0061 -0.0235 -0.0099 0.0128 0.0100 0.0156 0.0391 -0.0023 0.0155  
 -0.0223 -0.0256 0.0155 -0.0092 -0.0042 -0.0432 -0.0032 -0.0449 -0.0076 0.0165 0.0201 0.0161 0.0305 -0.0041 0.0044  
  
 Columns 6,286 through 6,300  
  
 -0.0179 -0.0431 0.0222 -0.0058 0.0199 0.0207 -0.0035 -0.0233 -0.0143 0.0250 -0.0194 0.0067 0.0187 -0.0120 0.0415  
 -0.0156 -0.0179 0.0632 -0.0042 -0.0027 0.0363 0.0090 -0.0207 -0.0077 -0.0006 0.0008 0.0200 -0.0121 0.0184 0.0148  
 -0.0040 0.0054 0.0479 -0.0062 -0.0132 0.0317 0.0029 0.0126 0.0117 -0.0170 0.0262 0.0312 -0.0316 0.0400 -0.0215  
  
 Columns 6,301 through 6,315  
  
 -0.0268 -0.0472 0.0170 0.0273 0.0260 -0.0236 0.0322 -0.0013 0.0285 0.0073 -0.0103 -0.0099 0.0130 0.0262 0.0118  
 -0.0393 -0.0038 -0.0325 0.0282 -0.0024 -0.0036 -0.0222 0.0127 -0.0072 0.0060 -0.0161 0.0101 0.0524 0.0158 0.0228  
 -0.0347 0.0319 -0.0594 0.0124 -0.0265 0.0018 -0.0564 0.0109 -0.0374 0.0060 -0.0164 0.0166 0.0554 -0.0126 0.0332  
  
 Columns 6,316 through 6,330  
  
 -0.0220 0.0070 -0.0314 0.0152 -0.0416 0.0102 0.0160 -0.0017 0.0010 0.0060 -0.0162 -0.0056 0.0697 -0.0148 0.0059  
 -0.0196 0.0088 -0.0174 -0.0095 0.0108 0.0104 0.0149 -0.0133 -0.0034 0.0153 -0.0169 -0.0202 0.0434 -0.0259 -0.0054  
 -0.0020 0.0090 0.0168 -0.0325 0.0441 0.0125 -0.0103 -0.0147 -0.0167 0.0180 0.0108 -0.0244 -0.0033 -0.0139 -0.0135  
  
 Columns 6,331 through 6,345  
  
 0.0052 -0.0167 -0.0122 -0.0093 0.0074 0.0028 0.0057 -0.0026 -0.0183 -0.0255 0.0127 0.0050 0.0088 0.0192 -0.0239  
 -0.0091 -0.0367 -0.0164 0.0235 0.0023 0.0114 -0.0038 -0.0048 0.0172 -0.0389 -0.0131 0.0236 0.0438 -0.0101 0.0002  
 -0.0036 -0.0368 -0.0019 0.0396 -0.0029 0.0125 -0.0020 -0.0045 0.0358 -0.0263 -0.0235 0.0215 0.0446 -0.0219 0.0154  
  
 Columns 6,346 through 6,360  
  
 0.0297 0.0128 0.0083 0.0066 0.0209 0.0204 0.0033 0.0136 -0.0081 -0.0197 -0.0273 -0.0150 -0.0115 -0.0226 0.0010  
 -0.0200 0.0256 -0.0065 -0.0112 0.0273 0.0218 0.0020 -0.0167 -0.0275 -0.0283 0.0018 -0.0074 -0.0248 -0.0006 -0.0167  
 -0.0445 0.0251 -0.0241 -0.0085 0.0235 -0.0025 0.0039 -0.0288 -0.0242 -0.0118 0.0229 -0.0067 -0.0222 0.0061 -0.0128  
  
 Columns 6,361 through 6,375  
  
 -0.0159 -0.0053 -0.0422 0.0052 0.0093 0.0196 -0.0152 0.0096 -0.0024 0.0217 -0.0383 -0.0280 -0.0069 0.0128 -0.0126  
 0.0447 -0.0468 -0.0124 0.0191 0.0032 -0.0081 -0.0129 0.0477 -0.0007 0.0192 0.0186 -0.0178 0.0302 0.0139 -0.0344  
 0.0751 -0.0453 0.0229 0.0177 -0.0031 -0.0368 -0.0003 0.0461 0.0103 0.0027 0.0510 -0.0008 0.0381 0.0060 -0.0260  
  
 Columns 6,376 through 6,390  
  
 0.0158 -0.0177 0.0233 0.0058 -0.0249 -0.0515 -0.0138 0.0050 -0.0011 0.0263 0.0116 -0.0124 0.0161 -0.0030 -0.0227  
 0.0027 0.0048 0.0116 0.0191 0.0177 -0.0386 -0.0415 0.0414 0.0200 0.0091 0.0281 0.0263 -0.0104 -0.0019 -0.0007  
 -0.0008 0.0302 -0.0130 0.0180 0.0463 0.0036 -0.0383 0.0506 0.0245 -0.0164 0.0133 0.0276 -0.0213 -0.0016 0.0126  
  
 Columns 6,391 through 6,405  
  
 0.0014 0.0294 0.0128 -0.0032 -0.0212 -0.0086 0.0236 0.0178 0.0294 -0.0032 -0.0294 0.0066 0.0160 -0.0173 -0.0158  
 0.0212 0.0069 0.0074 0.0132 -0.0497 -0.0014 -0.0017 -0.0037 0.0175 -0.0003 -0.0163 0.0102 -0.0276 -0.0270 -0.0105  
 0.0386 -0.0198 -0.0019 0.0077 -0.0225 0.0059 -0.0220 -0.0157 0.0028 -0.0082 0.0026 0.0134 -0.0378 -0.0140 0.0024  
  
 Columns 6,406 through 6,420  
  
 0.0546 0.0032 -0.0287 -0.0013 -0.0011 0.0045 -0.0244 0.0180 -0.0111 -0.0115 -0.0013 0.0216 0.0054 -0.0071 -0.0119  
 0.0031 -0.0229 -0.0073 0.0190 -0.0149 0.0257 0.0080 -0.0128 -0.0440 -0.0112 -0.0062 0.0268 0.0168 -0.0132 0.0064  
 -0.0449 -0.0275 0.0379 0.0269 -0.0315 0.0190 0.0295 -0.0200 -0.0319 -0.0137 -0.0065 0.0207 0.0097 -0.0152 0.0217  
  
 Columns 6,421 through 6,435  
  
 -0.0036 0.0178 -0.0103 0.0183 0.0383 -0.0231 0.0074 -0.0039 -0.0467 -0.0150 -0.0049 -0.0024 0.0134 0.0204 0.0059  
 0.0020 0.0273 -0.0113 -0.0010 0.0117 0.0449 0.0210 0.0028 0.0010 -0.0002 0.0044 -0.0063 0.0430 -0.0060 -0.0061  
 0.0222 0.0126 -0.0134 -0.0095 -0.0056 0.0761 0.0243 0.0010 0.0418 0.0055 0.0041 -0.0104 0.0379 -0.0275 -0.0010  
  
 Columns 6,436 through 6,450  
  
 -0.0341 0.0493 -0.0376 -0.0268 -0.0173 -0.0058 -0.0042 -0.0152 0.0063 0.0612 -0.0096 0.0025 -0.0173 0.0458 0.0316  
 -0.0052 0.0239 -0.0003 0.0137 0.0049 0.0052 -0.0365 0.0221 -0.0118 0.0012 0.0137 -0.0128 0.0153 -0.0041 -0.0033  
 0.0320 -0.0255 0.0212 0.0305 0.0314 0.0131 -0.0321 0.0403 -0.0276 -0.0600 0.0165 -0.0226 0.0392 -0.0394 -0.0276  
  
 Columns 6,451 through 6,465  
  
 0.0149 -0.0066 -0.0246 -0.0097 -0.0248 -0.0058 0.0031 -0.0185 0.0231 0.0288 -0.0348 -0.0233 -0.0112 0.0042 -0.0014  
 0.0252 -0.0047 -0.0396 -0.0113 0.0523 0.0053 0.0070 -0.0104 -0.0197 -0.0055 -0.0578 -0.0230 -0.0353 -0.0075 0.0254  
 0.0246 0.0015 -0.0229 -0.0020 0.0705 0.0064 0.0065 0.0060 -0.0257 -0.0426 -0.0185 -0.0039 -0.0298 -0.0149 0.0305  
  
 Columns 6,466 through 6,480  
  
 -0.0377 -0.0219 -0.0284 0.0140 -0.0028 0.0270 -0.0036 0.0310 -0.0110 -0.0248 0.0504 0.0246 -0.0477 0.0124 -0.0382  
 -0.0070 -0.0081 -0.0396 -0.0161 -0.0143 0.0254 -0.0288 0.0227 -0.0007 -0.0299 0.0080 0.0156 -0.0190 0.0154 -0.0058  
 0.0133 0.0147 -0.0179 -0.0353 -0.0019 0.0152 -0.0422 -0.0143 0.0120 -0.0043 -0.0361 -0.0078 0.0198 0.0060 0.0197  
  
 Columns 6,481 through 6,495  
  
 0.0076 -0.0130 0.0072 -0.0011 0.0292 0.0249 -0.0102 0.0051 0.0033 -0.0049 -0.0525 0.0224 0.0160 0.0198 -0.0169  
 0.0031 0.0043 -0.0071 0.0075 0.0047 -0.0271 0.0070 -0.0223 0.0093 -0.0173 0.0142 0.0219 -0.0236 0.0475 0.0329  
 -0.0091 0.0282 -0.0188 0.0188 -0.0172 -0.0496 0.0246 -0.0257 0.0127 -0.0062 0.0533 0.0048 -0.0523 0.0335 0.0596  
  
 Columns 6,496 through 6,510

0.0206 -0.0134 -0.0348 -0.0387 -0.0245 0.0150 -0.0114 -0.0058 -0.0447 0.0290 -0.0129 -0.0199 -0.0116 0.0013 -0.0226  
 0.0158 -0.0533 -0.0411 -0.0069 -0.0242 -0.0241 0.0078 -0.0123 -0.0074 -0.0136 0.0147 0.0366 -0.0267 -0.0114 -0.0114  
 -0.0063 -0.0512 -0.0219 0.0390 -0.0172 -0.0366 0.0138 -0.0082 0.0331 -0.0452 0.0440 0.0655 -0.0048 -0.0047 0.0092  
  
 Columns 6,511 through 6,525  
  
 0.0283 0.0188 -0.0464 -0.0105 0.0224 -0.0068 0.0170 0.0283 -0.0509 0.0149 -0.0330 0.0295 -0.0010 -0.0443 -0.0035  
 0.0025 -0.0156 -0.0348 0.0306 -0.0220 0.0295 0.0126 0.0073 -0.0177 -0.0131 -0.0485 -0.0041 0.0162 0.0134 -0.0024  
 -0.0346 -0.0292 -0.0125 0.0574 -0.0415 0.0447 0.0012 -0.0252 0.0157 -0.0208 -0.0316 -0.0409 0.0190 0.0564 0.0005  
  
 Columns 6,526 through 6,540  
  
 -0.0062 0.0091 -0.0095 0.0107 -0.0047 0.0033 -0.0194 -0.0162 0.0194 -0.0047 0.0077 -0.0484 0.0060 -0.0096 -0.0104  
 0.0519 -0.0002 0.0022 0.0061 -0.0022 0.0150 0.0196 0.0171 0.0086 -0.0293 -0.0168 -0.0216 0.0060 0.0241 0.0186  
 0.0766 -0.0134 0.0220 -0.0007 0.0127 0.0129 0.0272 0.0294 -0.0071 -0.0264 -0.0284 -0.0029 0.0075 0.0298 0.0343  
  
 Columns 6,541 through 6,555  
  
 -0.0115 -0.0044 -0.0032 0.0263 -0.0335 -0.0555 -0.0571 0.0411 -0.0014 -0.0007 0.0207 -0.0273 -0.0125 0.0446 -0.0187  
 -0.0241 0.0170 0.0254 0.0463 0.0098 -0.0155 -0.0388 -0.0007 -0.0267 -0.0102 -0.0103 -0.0242 -0.0058 -0.0137 0.0213  
 -0.0077 0.0255 0.0405 0.0310 0.0514 0.0192 0.0114 -0.0331 -0.0217 -0.0167 -0.0256 0.0050 0.0011 -0.0549 0.0356  
  
 Columns 6,556 through 6,570  
  
 0.0243 -0.0222 0.0251 -0.0144 0.0230 -0.0025 -0.0061 0.0208 0.0131 -0.0444 -0.0135 0.0247 0.0041 -0.0294 0.0043  
 0.0486 0.0119 0.0047 -0.0476 0.0510 -0.0192 0.0137 -0.0023 0.0217 -0.0063 0.0032 -0.0078 -0.0006 -0.0395 -0.0013  
 0.0278 0.0428 -0.0214 -0.0411 0.0486 -0.0233 0.0255 -0.0213 0.0233 0.0337 0.0173 -0.0188 -0.0081 -0.0195 -0.0047  
  
 Columns 6,571 through 6,585  
  
 -0.0280 -0.0088 0.0222 -0.0230 0.0180 -0.0285 0.0149 -0.0209 0.0072 -0.0244 -0.0233 0.0127 0.0099 0.0270 0.0029  
 0.0064 0.0006 0.0228 0.0145 -0.0445 -0.0301 -0.0042 -0.0047 0.0030 -0.0256 0.0244 0.0458 -0.0069 -0.0059 -0.0374  
 0.0371 0.0157 0.0168 0.0341 -0.0747 -0.0022 -0.0107 0.0028 -0.0082 -0.0197 0.0605 0.0369 -0.0018 -0.0216 -0.0407  
  
 Columns 6,586 through 6,600  
  
 -0.0229 -0.0012 -0.0281 -0.0220 -0.0027 0.0375 0.0263 -0.0152 0.0082 -0.0204 -0.0004 -0.0151 -0.0160 0.0168 -0.0299  
 -0.0159 0.0168 -0.0108 0.0261 0.0115 0.0411 0.0434 0.0259 -0.0011 0.0163 -0.0280 -0.0041 -0.0005 0.0071 -0.0179  
 -0.0116 0.0188 0.0139 0.0521 0.0304 0.0399 0.0401 0.0551 -0.0168 0.0242 -0.0371 0.0164 0.0091 0.0047 0.0055  
  
 Columns 6,601 through 6,615  
  
 -0.0130 -0.0112 0.0475 0.0196 0.0191 -0.0109 0.0060 0.0602 0.0107 0.0230 0.0160 -0.0125 -0.0406 0.0321 -0.0132  
 0.0213 -0.0162 0.0123 0.0008 -0.0133 -0.0026 -0.0025 -0.0281 -0.0035 -0.0303 0.0120 -0.0242 -0.0068 0.0304 0.0181  
 0.0411 -0.0108 -0.0309 -0.0143 -0.0367 -0.0035 -0.0169 -0.0765 -0.0108 -0.0617 0.0057 -0.0213 0.0274 0.0034 0.0149  
  
 Columns 6,616 through 6,630  
  
 -0.0383 0.0027 -0.0238 -0.0108 0.0026 0.0133 -0.0242 0.0021 -0.0256 0.0140 0.0163 -0.0057 -0.0373 -0.0063 -0.0068  
 0.0053 -0.0336 0.0345 0.0109 -0.0126 0.0515 -0.0111 0.0294 -0.0184 -0.0064 -0.0146 0.0088 -0.0127 0.0037 -0.0446  
 0.0328 -0.0376 0.0630 0.0108 -0.0330 0.0405 0.0113 0.0204 0.0111 -0.0187 -0.0218 0.0119 0.0045 0.0268 -0.0540  
  
 Columns 6,631 through 6,645  
  
 -0.0291 0.0075 -0.0179 0.0054 -0.0023 0.0473 0.0151 -0.0086 -0.0211 -0.0260 0.0070 0.0179 -0.0413 0.0382 0.0174  
 -0.0548 -0.0221 -0.0243 0.0087 0.0165 -0.0378 -0.0170 -0.0249 0.0101 0.0247 0.0428 0.0015 -0.0244 -0.0152 0.0172  
 -0.0259 -0.0324 -0.0017 -0.0014 0.0136 -0.0823 -0.0136 -0.0315 0.0221 0.0500 0.0488 -0.0068 0.0058 -0.0476 0.0058  
  
 Columns 6,646 through 6,660  
  
 -0.0290 -0.0004 -0.0004 0.0236 0.0050 0.0069 0.0079 0.0126 -0.0267 0.0423 -0.0093 0.0404 0.0092 -0.0149 -0.0080  
 0.0095 -0.0466 0.0138 -0.0050 0.0126 0.0172 0.0176 0.0130 -0.0202 -0.0023 -0.0285 0.0352 -0.0152 -0.0561 -0.0003  
 0.0325 -0.0618 0.0308 -0.0228 0.0080 0.0044 0.0029 0.0036 -0.0051 -0.0372 -0.0240 0.0064 -0.0213 -0.0580 0.0242  
  
 Columns 6,661 through 6,675  
  
 0.0112 -0.0046 -0.0248 0.0136 0.0397 -0.0252 0.0175 -0.0279 0.0136 0.0082 0.0078 -0.0086 0.0035 0.0072 0.0207  
 0.0181 -0.0047 -0.0098 -0.0064 0.0109 -0.0054 0.0045 0.0522 0.0144 -0.0412 -0.0041 -0.0093 0.0103 -0.0206 0.0086  
 -0.0042 -0.0100 0.0127 -0.0305 -0.0258 0.0056 -0.0049 0.0860 -0.0063 -0.0406 0.0034 -0.0094 0.0071 -0.0425 -0.0026  
  
 Columns 6,676 through 6,690  
  
 0.0043 -0.0029 0.0027 -0.0121 -0.0384 -0.0432 0.0193 -0.0019 0.0164 0.0308 -0.0116 -0.0231 -0.0168 0.0035 0.0289  
 0.0119 -0.0074 0.0488 -0.0088 0.0199 -0.0206 0.0023 -0.0301 -0.0255 0.0308 0.0065 -0.0310 -0.0027 0.0035 0.0263  
 0.0260 0.0147 0.0517 -0.0014 0.0311 0.0201 -0.0094 -0.0319 -0.0500 0.0124 0.0093 -0.0211 0.0083 0.0125 0.0069  
  
 Columns 6,691 through 6,705  
  
 -0.0217 -0.0053 -0.0086 0.0657 0.0226 0.0255 0.0158 0.0240 -0.0028 -0.0048 0.0229 -0.0102 0.0097 0.0119 0.0129  
 -0.0249 0.0162 -0.0463 0.0256 -0.0293 -0.0264 -0.0131 0.0365 -0.0152 0.0071 -0.0343 -0.0146 0.0352 0.0063 0.0222  
 -0.0126 0.0062 -0.0525 -0.0205 -0.0507 -0.0637 -0.0202 0.0177 -0.0243 0.0124 -0.0623 0.0004 0.0537 0.0027 0.0183  
  
 Columns 6,706 through 6,720  
  
 0.0041 -0.0180 -0.0110 -0.0033 0.0145 -0.0085 0.0165 0.0173 -0.0100 0.0087 -0.0165 0.0156 -0.0174 0.0107 -0.0175  
 0.0240 -0.0245 -0.0289 -0.0093 -0.0040 -0.0181 -0.0135 -0.0108 0.0020 0.0280 -0.0062 0.0320 0.0179 0.0241 0.0267  
 0.0206 -0.0124 -0.0272 -0.0245 -0.0201 -0.0280 -0.0256 -0.0197 0.0050 0.0158 0.0112 0.0259 0.0255 0.0158 0.0403  
  
 Columns 6,721 through 6,735  
  
 0.0027 0.0125 -0.0035 -0.0443 -0.0225 -0.0247 -0.0063 0.0141 0.0140 -0.0081 -0.0280 -0.0131 -0.0389 0.0213 0.0441  
 -0.0159 -0.0511 -0.0350 -0.0021 -0.0182 -0.0207 0.0157 -0.0112 0.0131 0.0025 0.0396 -0.0048 0.0031 -0.0271 -0.0183  
 -0.0418 -0.0820 -0.0498 0.0431 0.0156 -0.0062 0.0120 -0.0207 0.0081 0.0075 0.0699 0.0085 0.0320 -0.0507 -0.0629  
  
 Columns 6,736 through 6,750  
  
 0.0198 0.0301 -0.0066 0.0172 -0.0044 -0.0047 -0.0256 0.0109 -0.0383 0.0276 0.0111 0.0388 0.0295 -0.0205 0.0101  
 0.0192 0.0156 -0.0112 -0.0049 -0.0092 -0.0031 -0.0335 0.0126 -0.0031 0.0343 -0.0179 0.0138 -0.0386 0.0086 0.0191  
 0.0120 -0.0095 -0.0064 -0.0325 -0.0004 -0.0131 -0.0271 0.0093 0.0249 0.0120 -0.0245 -0.0155 -0.0717 0.0351 0.0123  
  
 Columns 6,751 through 6,765  
  
 0.0208 0.0218 -0.0112 -0.0025 -0.0007 0.0262 0.0048 -0.0378 0.0014 -0.0041 -0.0006 -0.0267 0.0464 -0.0236 0.0165  
 0.0007 0.0048 0.0199 0.0271 0.0023 0.0377 -0.0052 -0.0253 0.0145 -0.0355 -0.0348 -0.0344 0.0314 0.0008 0.0522  
 0.0021 -0.0080 0.0261 0.0232 0.0053 0.0190 -0.0121 0.0048 0.0296 -0.0315 -0.0523 -0.0296 -0.0115 0.0207 0.0465  
  
 Columns 6,766 through 6,780  
  
 0.0009 -0.0405 -0.0019 -0.0298 -0.0190 0.0108 0.0088 0.0181 0.0120 -0.0019 0.0352 -0.0086 0.0111 0.0332 -0.0061  
 0.0107 0.0096 0.0052 -0.0249 0.0042 -0.0038 -0.0239 0.0294 0.0012 -0.0013 -0.0131 0.0065 -0.0041 0.0078 -0.0041  
 0.0115 0.0526 0.0167 -0.0019 0.0240 -0.0109 -0.0250 0.0303 -0.0062 -0.0059 -0.0509 0.0077 -0.0072 -0.0248 -0.0156  
  
 Columns 6,781 through 6,795  
  
 0.0323 0.0006 0.0354 -0.0087 0.0019 -0.0051 -0.0049 0.0169 -0.0134 0.0429 0.0021 0.0012 0.0180 -0.0160 0.0354  
 0.0028 -0.0145 0.0190 0.0215 -0.0453 0.0072 0.0127 0.0017 -0.0244 0.0155 -0.0268 0.0065 0.0296 -0.0006 -0.0111  
 -0.0242 -0.0109 -0.0022 0.0298 -0.0485 0.0173 0.0273 -0.0205 -0.0278 -0.0188 -0.0445 0.0068 0.0179 0.0166 -0.0358  
  
 Columns 6,796 through 6,810  
  
 0.0111 -0.0346 -0.0179 0.0310 0.0123 -0.0021 0.0280 -0.0383 0.0336 -0.0077 -0.0207 0.0075 -0.0037 -0.0077 0.0177  
 -0.0045 0.0051 -0.0078 0.0261 0.0019 -0.0087 0.0371 0.0064 0.0305 0.0348 -0.0134 0.0143 0.0175 -0.0123 0.0021  
 -0.0179 0.0361 0.0079 -0.0124 0.0004 -0.0068 0.0133 0.0450 0.0166 0.0503 0.0073 0.0249 0.0212 -0.0009 -0.0184  
  
 Columns 6,811 through 6,825  
  
 0.0225 -0.0031 0.0600 0.0172 -0.0409 -0.0001 0.0006 0.0095 -0.0043 0.0060 -0.0502 0.0134 -0.0082 0.0135 0.0236  
 -0.0217 0.0007 0.0590 0.0059 0.0001 0.0405 -0.0126 -0.0022 -0.0071 0.0036 -0.0445 -0.0136 0.0044 -0.0085 -0.0281  
 -0.0423 -0.0057 0.0129 -0.0021 0.0492 0.0474 -0.0069 -0.0063 -0.0092 -0.0110 -0.0167 -0.0210 0.0108 -0.0266 -0.0460  
  
 Columns 6,826 through 6,840  
  
 0.0456 -0.0037 0.0119 -0.0054 0.0266 -0.0157 -0.0298 -0.0293 -0.0065 -0.0472 0.0096 0.0038 -0.0104 -0.0394 0.0043  
 -0.0016 -0.0521 -0.0178 0.0025 0.0106 -0.0356 -0.0605 -0.0033 0.0100 -0.0123 -0.0155 -0.0196 0.0512 -0.0138 0.0056  
 -0.0139 -0.0654 -0.0479 0.0013 -0.0188 -0.0339 -0.0505 0.0108 0.0282 0.0230 -0.0324 -0.0366 0.0745 0.0149 -0.0034  
  
 Columns 6,841 through 6,855  
  
 -0.0094 0.0144 0.0244 -0.0055 0.0153 -0.0563 0.0240 0.0021 0.0093 -0.0132 -0.0217 -0.0221 -0.0296 -0.0104 -0.0347  
 -0.0671 -0.0260 -0.0208 0.0026 0.0359 0.0412 -0.0190 -0.0361 0.0111 -0.0251 0.0030 0.0040 0.0026 0.0168 -0.0007  
 -0.0808 -0.0363 -0.0501 0.0077 0.0492 0.0879 -0.0264 -0.0394 0.0186 -0.0194 0.0487 0.0108 0.0434 0.0345 0.0292  
  
 Columns 6,856 through 6,870  
  
 0.0250 -0.0101 0.0180 -0.0152 0.0316 -0.0681 -0.0250 0.0003 -0.0099 -0.0072 -0.0027 -0.0141 0.0046 0.0240 0.0028  
 -0.0273 0.0364 -0.0050 -0.0019 0.0050 -0.0047 0.0115 0.0072 -0.0481 0.0111 -0.0111 0.0258 0.0237 0.0159 -0.0125  
 -0.0471 0.0675 -0.0228 0.0249 -0.0186 0.0507 0.0256 0.0121 -0.0514 0.0124 -0.0084 0.0284 0.0304 -0.0055 -0.0209  
  
 Columns 6,871 through 6,885  
  
 -0.0087 -0.0062 0.0088 0.0030 -0.0400 -0.0113 0.0184 -0.0152 0.0037 0.0175 -0.0373 -0.0327 0.0165 -0.0256 0.0414  
 -0.0166 -0.0200 -0.0254 0.0006 0.0022 -0.0301 -0.0029 0.0378 -0.0115 0.0013 0.0122 -0.0069 0.0076 0.0018 0.0039  
 -0.0074 -0.0190 -0.0333 0.0149 0.0205 -0.0367 -0.0229 0.0592 -0.0167 -0.0107 0.0477 0.0149 -0.0107 0.0369 -0.0300  
  
 Columns 6,886 through 6,900  
  
 -0.0096 -0.0296 0.0082 0.0307 0.0059 0.0051 0.0088 0.0138 0.0058 -0.0065 0.0155 0.0044 -0.0028 0.0053 0.0205  
 0.0350 0.0325 0.0026 -0.0175 -0.0090 -0.0178 0.0073 -0.0270 -0.0252 0.0124 -0.0106 0.0147 -0.0459 -0.0405 0.0068  
 0.0469 0.0537 -0.0024 -0.0500 -0.0220 -0.0291 0.0204 -0.0278 -0.0248 0.0318 -0.0237 -0.0017 -0.0516 -0.0675 -0.0170  
  
 Columns 6,901 through 6,915  
  
 0.0118 0.0091 0.0121 0.0110 -0.0315 -0.0382 -0.0120 0.0004 0.0051 0.0251 0.0167 -0.0120 -0.0183 -0.0071 0.0022  
 0.0165 -0.0152 -0.0256 -0.0447 -0.0153 -0.0036 -0.0096 -0.0230 0.0091 0.0193 -0.0007 0.0121 0.0024 0.0135 0.0102  
 0.0116 -0.0307 -0.0429 -0.0525 0.0105 0.0216 -0.0048 -0.0186 -0.0063 -0.0014 -0.0143 0.0346 0.0216 0.0306 0.0027  
  
 Columns 6,916 through 6,930  
  
 -0.0100 0.0030 0.0062 -0.0105 0.0123 0.0016 0.0181 -0.0189 0.0281 -0.0110 0.0031 -0.0273 -0.0183 -0.0029 -0.0250  
 0.0027 0.0360 -0.0395 0.0046 -0.0176 -0.0239 -0.0273 0.0282 0.0049 -0.0074 0.0086 -0.0278 -0.0138 0.0358 -0.0050  
 0.0226 0.0368 -0.0620 0.0263 -0.0313 -0.0359 -0.0392 0.0516 -0.0200 -0.0012 0.0121 -0.0139 -0.0018 0.0563 0.0162  
  
 Columns 6,931 through 6,945  
  
 0.0204 -0.0188 -0.0077 -0.0279 -0.0276 -0.0234 0.0216 -0.0141 -0.0121 0.0002 0.0174 0.0114 -0.0260 -0.0289 -0.0009  
 0.0230 0.0163 0.0153 -0.0140 -0.0153 0.0026 -0.0043 0.0148 -0.0325 0.0266 0.0372 -0.0131 -0.0024 0.0087 0.0060  
 0.0153 0.0381 0.0175 0.0108 0.0120 0.0209 -0.0112 0.0199 -0.0311 0.0310 0.0242 -0.0115 -0.0027 0.0359 0.0104  
  
 Columns 6,946 through 6,960  
  
 0.0258 0.0123 0.0018 0.0299 0.0094 -0.0372 -0.0060 0.0102 0.0018 0.0190 0.0058 -0.0080 -0.0210 0.0378 -0.0145  
 -0.0141 -0.0095 0.0249 -0.0068 -0.0095 0.0477 0.0386 0.0244 0.0362 0.0065 -0.0483 0.0025 0.0145 0.0130 0.0329  
 -0.0491 -0.0276 0.0302 -0.0305 -0.0161 0.0700 0.0509 0.0165 0.0512 -0.0055 -0.0671 0.0169 0.0346 -0.0254 0.0478  
  
 Columns 6,961 through 6,975  
  
 0.0286 -0.0119 -0.0414 -0.0219 -0.0100 -0.0074 0.0367 0.0252 -0.0200 0.0050 -0.0157 -0.0022 0.0090 -0.0403 -0.0117  
 0.0222 0.0050 -0.0192 -0.0230 0.0177 -0.0291 0.0086 0.0231 -0.0049 -0.0364 -0.0408 0.0048 -0.0237 -0.0313 -0.0052  
 -0.0090 0.0127 0.0143 -0.0185 0.0351 -0.0412 -0.0106 -0.0085 0.0129 -0.0457 -0.0215 0.0068 -0.0467 -0.0143 0.0041  
  
 Columns 6,976 through 6,990  
  
 -0.0030 0.0317 0.0226 -0.0177 -0.0094 -0.0573 -0.0148 0.0015 0.0196 0.0075 -0.0452 0.0136 -0.0118 -0.0271 0.0293  
 -0.0007 -0.0059 -0.0048 -0.0417 -0.0127 -0.0222 0.0130 0.0042 0.0135 0.0328 0.0041 0.0057 0.0078 0.0321 0.0345  
 0.0009 -0.0229 -0.0316 -0.0212 0.0029 0.0210 0.0352 0.0013 -0.0182 0.0240 0.0443 0.0145 0.0167 0.0660 0.0170  
  
 Columns 6,991 through 7,005  
  
 0.0236 0.0085 -0.0310 -0.0535 -0.0233 0.0357 -0.0121 -0.0014 0.0142 0.0054 -0.0030 0.0198 0.0020 -0.0254 0.0539  
 0.0160 -0.0443 -0.0328 -0.0244 0.0098 -0.0034 -0.0288 0.0159 0.0091 0.0141 0.0232 -0.0263 0.0110 0.0215 0.0192

0.0063 -0.0677 -0.0085 0.0122 0.0323 -0.0304 -0.0137 0.0065 0.0132 0.0026 0.0405 -0.0461 0.0190 0.0548 -0.0016  
  
 Columns 7,006 through 7,020  
  
 -0.0261 0.0199 0.0388 -0.0197 0.0041 -0.0370 -0.0134 -0.0158 0.0276 0.0022 -0.0346 -0.0216 0.0215 -0.0014 0.0363  
 -0.0127 -0.0002 -0.0082 -0.0170 0.0228 -0.0096 0.0070 -0.0061 -0.0226 -0.0208 -0.0037 -0.0051 -0.0190 -0.0114 -0.0396  
 0.0148 -0.0268 -0.0343 -0.0005 0.0146 0.0248 0.0183 0.0135 -0.0415 -0.0341 0.0385 0.0073 -0.0493 -0.0417 -0.0739  
  
 Columns 7,021 through 7,035  
  
 0.0142 -0.0527 0.0379 -0.0029 -0.0316 -0.0119 -0.0409 0.0353 -0.0131 0.0202 -0.0029 -0.0316 0.0015 -0.0004 -0.0372  
 0.0169 -0.0100 0.0204 0.0013 0.0401 -0.0005 -0.0032 0.0097 0.0067 -0.0178 -0.0672 -0.0094 -0.0054 0.0362 -0.0182  
 0.0117 0.0435 -0.0166 0.0041 0.0788 0.0192 0.0410 -0.0256 0.0051 -0.0314 -0.0779 0.0166 -0.0174 0.0419 0.0060  
  
 Columns 7,036 through 7,050  
  
 -0.0128 -0.0239 0.0227 -0.0252 0.0318 -0.0171 -0.0209 0.0161 -0.0082 0.0568 -0.0435 0.0295 -0.0204 -0.0090 0.0367  
 -0.0003 0.0182 -0.0023 -0.0272 -0.0033 -0.0427 -0.0022 -0.0130 -0.0274 0.0101 0.0032 0.0058 -0.0010 0.0186 0.0177  
 0.0103 0.0467 -0.0149 -0.0087 -0.0338 -0.0323 0.0062 -0.0210 -0.0151 -0.0376 0.0401 -0.0131 0.0077 0.0309 -0.0152  
  
 Columns 7,051 through 7,065  
  
 -0.0076 0.0410 0.0005 0.0108 -0.0249 0.0228 -0.0214 -0.0141 -0.0034 -0.0189 0.0285 0.0328 0.0125 0.0220 0.0077  
 -0.0214 0.0132 0.0050 0.0430 -0.0150 -0.0205 -0.0160 -0.0231 -0.0323 -0.0222 0.0328 0.0229 -0.0144 0.0256 -0.0217  
 -0.0309 -0.0201 0.0207 0.0445 0.0095 -0.0405 0.0020 -0.0181 -0.0354 0.0004 0.0021 0.0117 -0.0225 0.0077 -0.0318  
  
 Columns 7,066 through 7,080  
  
 -0.0466 -0.0207 0.0074 -0.0142 0.0014 -0.0087 0.0021 0.0115 0.0273 -0.0130 0.0334 -0.0103 -0.0224 0.0181 -0.0047  
 0.0303 -0.0152 -0.0028 0.0164 -0.0151 -0.0064 0.0307 0.0147 -0.0155 -0.0429 -0.0118 0.0088 0.0140 0.0135 0.0236  
 0.0762 -0.0038 0.0026 0.0203 -0.0204 -0.0042 0.0445 0.0121 -0.0453 -0.0302 -0.0412 0.0140 0.0287 0.0039 0.0331  
  
 Columns 7,081 through 7,095  
  
 -0.0305 0.0103 -0.0084 -0.0191 0.0238 -0.0189 -0.0367 -0.0054 -0.0049 0.0125 -0.0213 -0.0309 -0.0102 0.0001 -0.0394  
 0.0111 0.0420 0.0194 -0.0059 0.0120 0.0268 0.0276 0.0021 -0.0030 -0.0083 -0.0500 -0.0065 -0.0215 0.0009 -0.0067  
 0.0461 0.0442 0.0169 0.0191 -0.0001 0.0603 0.0659 0.0066 0.0093 -0.0285 -0.0516 0.0286 -0.0154 -0.0021 0.0309  
  
 Columns 7,096 through 7,110  
  
 0.0104 0.0061 -0.0099 -0.0341 -0.0233 0.0095 -0.0258 -0.0011 -0.0423 0.0454 -0.0180 -0.0241 -0.0055 0.0314 -0.0122  
 0.0249 0.0088 -0.0332 0.0056 -0.0291 0.0050 0.0388 -0.0200 -0.0005 0.0233 -0.0301 0.0237 -0.0129 0.0243 -0.0042  
 0.0163 0.0076 -0.0337 0.0365 -0.0148 -0.0037 0.0539 -0.0301 0.0372 -0.0220 -0.0216 0.0461 -0.0122 0.0003 0.0147  
  
 Columns 7,111 through 7,125  
  
 0.0229 -0.0311 -0.0091 0.0076 -0.0026 -0.0172 0.0185 -0.0490 -0.0407 -0.0163 0.0081 0.0039 0.0230 -0.0319 -0.0211  
 0.0475 0.0080 -0.0281 0.0567 -0.0120 0.0172 0.0099 -0.0009 0.0262 -0.0318 -0.0356 0.0360 -0.0274 0.0200 0.0204  
 0.0370 0.0230 -0.0333 0.0687 -0.0157 0.0353 -0.0023 0.0472 0.0520 -0.0163 -0.0487 0.0516 -0.0339 0.0553 0.0354  
  
 Columns 7,126 through 7,140  
  
 -0.0270 0.0060 -0.0012 0.0041 0.0070 0.0002 -0.0367 0.0314 -0.0056 -0.0187 0.0183 -0.0226 -0.0191 0.0216 0.0067  
 -0.0290 0.0017 -0.0229 0.0282 -0.0145 0.0021 -0.0255 0.0330 0.0067 -0.0095 -0.0279 0.0020 -0.0610 0.0212 0.0127  
 -0.0010 -0.0018 -0.0325 0.0334 -0.0233 -0.0123 0.0013 0.0128 0.0115 0.0237 -0.0508 0.0255 -0.0628 0.0024 -0.0112  
  
 Columns 7,141 through 7,155  
  
 -0.0228 -0.0556 0.0015 0.0067 -0.0423 0.0262 0.0082 -0.0196 0.0422 0.0139 0.0011 -0.0110 0.0207 0.0112 -0.0116  
 0.0028 -0.0196 0.0214 0.0437 0.0254 0.0230 0.0193 0.0262 0.0024 -0.0093 -0.0009 0.0007 -0.0035 0.0001 -0.0275  
 0.0151 0.0396 0.0364 0.0354 0.0677 0.0089 0.0127 0.0447 -0.0413 -0.0303 0.0026 0.0093 -0.0230 0.0045 -0.0247  
  
 Columns 7,156 through 7,170  
  
 -0.0063 -0.0138 0.0111 -0.0049 0.0290 0.0126 -0.0104 0.0730 0.0012 0.0083 0.0106 -0.0142 -0.0177 -0.0019 -0.0101  
 0.0067 -0.0071 -0.0149 -0.0252 -0.0099 0.0045 -0.0097 0.0066 0.0164 -0.0092 0.0336 0.0510 -0.0025 -0.0037 -0.0149  
 0.0075 0.0111 -0.0218 -0.0179 -0.0212 -0.0176 -0.0017 -0.0724 0.0069 -0.0214 0.0419 0.0575 0.0195 -0.0145 -0.0134  
  
 Columns 7,171 through 7,185  
  
 0.0170 -0.0406 -0.0006 0.0124 -0.0217 0.0184 0.0153 0.0123 0.0181 -0.0042 -0.0108 -0.0098 -0.0320 0.0037 -0.0079  
 0.0316 -0.0137 -0.0116 0.0076 0.0108 -0.0316 -0.0416 -0.0352 -0.0060 -0.0004 0.0321 0.0070 0.0412 -0.0108 -0.0018  
 0.0235 0.0214 -0.0143 -0.0107 0.0437 -0.0677 -0.0547 -0.0542 -0.0192 -0.0124 0.0609 0.0127 0.0936 -0.0212 -0.0033  
  
 Columns 7,186 through 7,200  
  
 0.0039 -0.0346 -0.0015 0.0056 0.0074 -0.0260 -0.0093 -0.0020 -0.0089 -0.0286 -0.0518 -0.0021 0.0088 -0.0059 0.0132  
 0.0018 -0.0009 -0.0007 0.0253 -0.0274 0.0488 -0.0059 -0.0325 -0.0298 0.0154 0.0052 -0.0289 0.0116 -0.0122 0.0143  
 0.0009 0.0237 0.0038 0.0242 -0.0306 0.0757 0.0030 -0.0381 -0.0275 0.0602 0.0359 -0.0366 0.0059 -0.0019 -0.0039  
  
 Columns 7,201 through 7,215  
  
 0.0079 0.0194 0.0471 0.0126 -0.0027 -0.0333 0.0061 0.0559 -0.0074 0.0121 0.0416 -0.0254 0.0078 0.0017 0.0034  
 -0.0083 -0.0189 0.0533 0.0097 0.0214 -0.0033 0.0084 0.0480 0.0027 0.0081 -0.0150 -0.0234 0.0327 -0.0044 -0.0015  
 -0.0133 -0.0412 0.0155 0.0011 0.0190 0.0073 0.0064 0.0127 0.0151 -0.0070 -0.0401 0.0033 0.0422 -0.0033 0.0018  
  
 Columns 7,216 through 7,230  
  
 -0.0176 0.0182 0.0364 0.0207 -0.0347 0.0013 -0.0142 0.0210 0.0173 -0.0013 -0.0117 0.0120 0.0285 0.0188 0.0079  
 0.0243 -0.0454 0.0174 -0.0341 -0.0031 0.0127 -0.0359 -0.0015 0.0052 0.0135 -0.0134 -0.0229 -0.0116 0.0097 0.0198  
 0.0585 -0.0559 0.0056 -0.0671 0.0190 0.0235 -0.0266 -0.0219 -0.0024 0.0177 -0.0024 -0.0306 -0.0501 -0.0096 0.0245  
  
 Columns 7,231 through 7,245  
  
 0.0072 -0.0045 0.0484 0.0468 -0.0036 0.0143 -0.0290 0.0023 -0.0059 0.0354 0.0037 -0.0241 0.0027 -0.0046 0.0055  
 0.0168 0.0080 -0.0051 0.0040 0.0147 -0.0066 0.0004 0.0358 0.0037 0.0054 0.0094 0.0352 0.0389 -0.0212 -0.0359  
 0.0130 0.0394 -0.0414 -0.0253 0.0205 -0.0331 0.0227 0.0487 -0.0004 -0.0210 0.0119 0.0494 0.0460 -0.0287 -0.0396  
  
 Columns 7,246 through 7,260  
  
 -0.0344 -0.0177 -0.0124 0.0122 0.0633 0.0290 0.0232 0.0060 -0.0064 -0.0212 0.0167 -0.0324 0.0020 0.0003 0.0519  
 -0.0168 0.0055 -0.0416 0.0116 0.0394 0.0107 -0.0037 0.0119 -0.0041 -0.0113 -0.0082 0.0065 0.0372 -0.0280 0.0464  
 0.0087 0.0259 -0.0304 -0.0154 -0.0132 -0.0074 -0.0226 0.0026 -0.0167 0.0012 -0.0220 0.0402 0.0348 -0.0268 0.0062  
  
 Columns 7,261 through 7,275  
  
 0.0271 0.0338 0.0084 -0.0342 -0.0078 0.0487 0.0547 -0.0048 0.0045 0.0162 -0.0023 -0.0012 -0.0238 0.0175 0.0335  
 -0.0275 -0.0333 0.0117 0.0022 0.0026 0.0121 -0.0039 -0.0282 0.0304 -0.0133 0.0107 0.0390 -0.0088 0.0085 0.0308  
 -0.0450 -0.0834 0.0033 0.0161 0.0305 -0.0208 -0.0460 -0.0205 0.0332 -0.0331 0.0231 0.0364 -0.0007 0.0001 0.0134  
  
 Columns 7,276 through 7,290  
  
 -0.0137 -0.0491 -0.0195 0.0321 -0.0106 0.0088 0.0229 -0.0178 0.0086 -0.0191 0.0532 0.0273 -0.0032 0.0025 0.0190  
 0.0106 -0.0512 0.0243 0.0231 -0.0225 0.0311 0.0148 -0.0208 -0.0306 -0.0101 0.0407 -0.0075 0.0021 -0.0055 0.0005  
 0.0300 -0.0290 0.0533 0.0140 -0.0325 0.0380 0.0028 -0.0127 -0.0454 -0.0142 0.0121 -0.0463 0.0056 -0.0117 -0.0155  
  
 Columns 7,291 through 7,305  
  
 0.0028 -0.0068 -0.0262 0.0084 -0.0288 0.0183 0.0102 0.0256 -0.0116 -0.0140 -0.0453 -0.0396 -0.0305 -0.0018 -0.0242  
 -0.0035 0.0149 0.0234 -0.0075 0.0112 -0.0088 -0.0219 -0.0145 0.0008 -0.0180 -0.0421 0.0233 -0.0123 0.0054 0.0083  
 -0.0056 0.0076 0.0496 -0.0159 0.0361 -0.0241 -0.0396 -0.0522 0.0089 -0.0106 -0.0099 0.0701 0.0149 0.0122 0.0290  
  
 Columns 7,306 through 7,320  
  
 0.0021 0.0090 0.0123 -0.0269 -0.0095 0.0118 -0.0064 -0.0237 -0.0072 0.0033 0.0005 0.0037 0.0149 -0.0238 -0.0212  
 0.0059 0.0068 0.0078 -0.0012 -0.0147 -0.0031 0.0171 0.0030 -0.0381 0.0291 -0.0118 0.0277 -0.0136 0.0009 0.0213  
 0.0080 0.0041 -0.0040 0.0134 -0.0082 -0.0251 0.0285 0.0226 -0.0381 0.0316 -0.0031 0.0123 -0.0287 0.0300 0.0416  
  
 Columns 7,321 through 7,335  
  
 -0.0059 0.0105 -0.0152 -0.0313 -0.0247 0.0092 0.0042 -0.0396 0.0118 0.0257 -0.0022 0.0499 -0.0230 0.0389 -0.0036  
 -0.0089 0.0067 0.0209 -0.0012 -0.0217 0.0136 -0.0132 0.0090 0.0106 -0.0012 -0.0222 0.0187 -0.0182 0.0050 -0.0502  
 0.0155 -0.0065 0.0422 0.0179 -0.0040 0.0088 -0.0109 0.0515 0.0206 -0.0320 -0.0256 -0.0209 -0.0034 -0.0117 -0.0523  
  
 Columns 7,336 through 7,350  
  
 -0.0118 0.0052 0.0210 0.0232 0.0284 -0.0002 -0.0312 -0.0022 0.0242 -0.0204 0.0073 -0.0155 -0.0007 0.0019 -0.0265  
 0.0065 0.0465 -0.0191 0.0385 0.0042 -0.0272 0.0100 -0.0048 0.0085 -0.0237 0.0028 0.0083 -0.0057 0.0090 -0.0098  
 0.0152 0.0526 -0.0480 0.0247 -0.0162 -0.0377 0.0495 0.0008 -0.0213 -0.0096 -0.0043 0.0262 -0.0133 0.0102 0.0154  
  
 Columns 7,351 through 7,365  
  
 -0.0150 -0.0376 -0.0017 -0.0053 0.0022 -0.0031 -0.0059 -0.0063 -0.0021 0.0237 0.0040 -0.0029 -0.0277 -0.0100 -0.0021  
 -0.0383 -0.0033 -0.0248 0.0145 0.0045 0.0061 0.0362 -0.0017 -0.0219 0.0262 0.0016 -0.0081 -0.0117 -0.0245 0.0384  
 -0.0317 0.0241 -0.0287 0.0117 0.0131 -0.0022 0.0435 0.0098 -0.0295 0.0062 -0.0072 -0.0140 0.0013 -0.0239 0.0577  
  
 Columns 7,366 through 7,380  
  
 -0.0005 -0.0156 -0.0282 -0.0038 0.0061 -0.0152 0.0190 0.0092 -0.0009 -0.0211 0.0398 -0.0040 0.0217 0.0343 0.0108  
 -0.0250 0.0159 -0.0214 0.0371 -0.0032 -0.0672 0.0035 0.0348 -0.0174 -0.0151 0.0129 0.0295 0.0337 0.0153 0.0238  
 -0.0402 0.0250 -0.0047 0.0485 -0.0185 -0.0564 -0.0083 0.0349 -0.0275 0.0041 -0.0232 0.0334 0.0307 -0.0061 0.0263  
  
 Columns 7,381 through 7,395  
  
 -0.0128 -0.0247 0.0368 -0.0162 -0.0188 0.0500 -0.0307 -0.0141 0.0013 -0.0338 0.0051 0.0564 0.0222 -0.0314 0.0140  
 -0.0101 -0.0072 0.0056 -0.0111 0.0063 0.0198 -0.0429 0.0007 -0.0082 0.0021 -0.0281 0.0137 0.0222 0.0048 0.0371  
 -0.0179 0.0141 -0.0336 -0.0058 0.0171 -0.0229 -0.0261 0.0265 0.0071 0.0360 -0.0152 -0.0266 0.0008 0.0322 0.0316  
  
 Columns 7,396 through 7,410  
  
 0.0154 0.0410 0.0363 0.0041 -0.0187 -0.0037 -0.0519 -0.0111 0.0144 -0.0034 -0.0092 -0.0148 0.0240 0.0104 -0.0006  
 -0.0069 -0.0126 -0.0251 0.0432 -0.0011 0.0303 -0.0076 0.0015 -0.0074 -0.0526 -0.0219 -0.0125 -0.0139 0.0101 0.0013  
 -0.0290 -0.0554 -0.0494 0.0290 0.0106 0.0428 0.0259 0.0219 -0.0228 -0.0506 -0.0142 -0.0015 -0.0385 -0.0049 -0.0059  
  
 Columns 7,411 through 7,425  
  
 0.0123 -0.0358 -0.0033 0.0258 -0.0039 -0.0041 0.0072 -0.0318 -0.0346 -0.0137 -0.0055 0.0257 -0.0069 0.0346 -0.0073  
 -0.0001 -0.0240 0.0204 0.0040 0.0050 0.0034 0.0019 0.0115 0.0098 -0.0100 -0.0213 0.0020 0.0324 0.0092 0.0058  
 -0.0023 0.0117 0.0283 -0.0161 0.0072 0.0039 -0.0010 0.0402 0.0496 -0.0071 -0.0154 -0.0226 0.0531 -0.0079 0.0109  
  
 Columns 7,426 through 7,440  
  
 -0.0123 -0.0074 -0.0155 -0.0014 -0.0563 -0.0352 -0.0384 -0.0056 0.0076 -0.0103 -0.0241 -0.0225 0.0098 -0.0060 0.0101  
 0.0061 0.0569 -0.0203 -0.0041 -0.0212 -0.0358 0.0092 0.0208 0.0025 -0.0073 -0.0221 -0.0101 -0.0138 -0.0141 -0.0246  
 0.0117 0.0538 -0.0105 -0.0027 0.0227 -0.0053 0.0531 0.0407 0.0048 -0.0033 -0.0180 0.0084 -0.0200 -0.0076 -0.0408  
  
 Columns 7,441 through 7,455  
  
 -0.0262 0.0144 0.0407 0.0119 -0.0113 0.0090 0.0010 -0.0219 0.0153 0.0354 -0.0290 -0.0056 -0.0344 0.0200 -0.0029  
 0.0085 0.0039 0.0205 -0.0079 -0.0658 -0.0074 0.0019 0.0140 -0.0230 0.0096 0.0034 -0.0003 -0.0213 0.0364 -0.0295  
 0.0291 -0.0060 -0.0063 -0.0135 -0.0764 -0.0248 -0.0099 0.0269 -0.0244 -0.0222 0.0327 0.0042 -0.0058 0.0135 -0.0327  
  
 Columns 7,456 through 7,470  
  
 -0.0249 0.0147 -0.0020 -0.0361 0.0169 0.0475 0.0411 0.0021 -0.0191 0.0160 -0.0083 0.0216 0.0069 -0.0056 -0.0121  
 0.0024 0.0010 -0.0334 0.0056 0.0320 -0.0000 -0.0056 -0.0292 0.0153 0.0303 -0.0381 -0.0401 0.0015 -0.0008 0.0244  
 0.0257 -0.0217 -0.0247 0.0384 0.0177 -0.0417 -0.0463 -0.0309 0.0435 0.0235 -0.0425 -0.0745 0.0081 0.0020 0.0381  
  
 Columns 7,471 through 7,485  
  
 0.0166 -0.0322 0.0044 0.0300 0.0150 -0.0224 -0.0174 0.0434 -0.0490 -0.0232 -0.0137 -0.0015 0.0091 0.0142 0.0147  
 0.0137 -0.0041 -0.0158 -0.0027 0.0217 -0.0089 -0.0029 0.0121 0.0137 0.0198 -0.0497 0.0201 -0.0081 -0.0173 -0.0180  
 -0.0006 0.0256 -0.0188 -0.0366 0.0175 0.0192 0.0068 -0.0246 0.0496 0.0313 -0.0480 0.0195 -0.0122 -0.0222 -0.0384  
  
 Columns 7,486 through 7,500  
  
 -0.0315 0.0037 -0.0138 -0.0240 -0.0065 -0.0081 0.0137 -0.0129 -0.0388 -0.0085 -0.0250 -0.0089 0.0182 0.0164 0.0163  
 -0.0177 0.0081 0.0020 -0.0388 -0.0112 -0.0378 0.0276 -0.0154 0.0088 0.0299 -0.0314 -0.0299 -0.0132 0.0128 -0.0004  
 0.0057 0.0061 0.0223 -0.0262 -0.0088 -0.0289 0.0094 -0.0048 0.0424 0.0547 -0.0246 -0.0200 -0.0135 -0.0070 -0.0146

Columns 7,501 through 7,515  
  
 -0.0024 -0.0069 -0.0351 -0.0059 -0.0202 -0.0176 -0.0219 0.0579 -0.0100 0.0578 -0.0163 0.0011 -0.0331 -0.0144 0.0151  
 0.0013 -0.0257 -0.0740 -0.0063 0.0238 -0.0010 0.0405 0.0261 -0.0449 0.0550 0.0299 -0.0418 -0.0078 0.0026 -0.0093  
 -0.0166 -0.0351 -0.0536 0.0153 0.0518 0.0113 0.0650 -0.0128 -0.0436 0.0020 0.0542 -0.0552 0.0130 0.0204 -0.0183  
  
 Columns 7,516 through 7,530  
  
 0.0030 0.0170 -0.0000 -0.0211 0.0077 0.0040 0.0192 0.0165 0.0147 -0.0101 0.0049 0.0102 0.0085 -0.0015 -0.0277  
 -0.0510 -0.0084 0.0013 -0.0296 -0.0151 0.0139 0.0501 0.0190 0.0231 -0.0245 -0.0400 -0.0233 0.0229 0.0061 -0.0149  
 -0.0683 -0.0146 -0.0029 -0.0269 -0.0205 0.0229 0.0282 0.0166 0.0159 -0.0280 -0.0534 -0.0339 0.0264 0.0127 -0.0013  
  
 Columns 7,531 through 7,545  
  
 0.0174 -0.0113 0.0003 0.0027 -0.0005 -0.0238 0.0573 -0.0440 -0.0130 0.0182 -0.0456 -0.0043 -0.0253 -0.0564 0.0071  
 0.0312 0.0440 0.0282 -0.0126 -0.0040 0.0093 0.0123 0.0095 0.0252 0.0063 -0.0360 -0.0299 -0.0232 0.0236 -0.0077  
 0.0276 0.0572 0.0365 -0.0212 -0.0137 0.0234 -0.0341 0.0332 0.0385 -0.0177 0.0051 -0.0313 -0.0007 0.0825 -0.0220  
  
 Columns 7,546 through 7,560  
  
 -0.0125 0.0457 0.0107 0.0249 -0.0239 -0.0052 -0.0124 0.0080 -0.0155 -0.0534 -0.0015 0.0316 0.0037 0.0028 -0.0060  
 0.0291 -0.0173 -0.0110 0.0089 0.0215 0.0054 -0.0051 -0.0071 -0.0087 -0.0067 0.0103 0.0338 0.0261 0.0130 -0.0404  
 0.0321 -0.0780 -0.0324 -0.0026 0.0409 -0.0053 -0.0016 -0.0120 0.0056 0.0474 0.0082 0.0155 0.0153 0.0022 -0.0529  
  
 Columns 7,561 through 7,575  
  
 -0.0444 -0.0037 0.0033 0.0117 -0.0006 -0.0351 0.0268 -0.0126 0.0187 0.0154 -0.0456 0.0072 -0.0581 -0.0101 0.0397  
 0.0188 -0.0008 -0.0089 -0.0096 -0.0146 -0.0197 0.0314 0.0011 0.0115 0.0290 0.0146 0.0210 -0.0028 0.0409 0.0028  
 0.0617 -0.0004 -0.0068 -0.0269 -0.0256 -0.0044 0.0332 0.0175 0.0133 0.0177 0.0456 0.0238 0.0511 0.0632 -0.0265  
  
 Columns 7,576 through 7,590  
  
 0.0295 0.0229 0.0057 0.0183 -0.0161 -0.0422 -0.0166 -0.0001 0.0082 -0.0190 -0.0090 -0.0021 -0.0190 0.0223 -0.0185  
 0.0006 0.0047 0.0181 0.0163 0.0098 -0.0143 -0.0081 -0.0386 0.0200 0.0042 -0.0248 -0.0437 0.0432 0.0004 0.0116  
 -0.0222 -0.0147 0.0104 0.0164 0.0246 0.0157 -0.0041 -0.0370 0.0036 0.0071 -0.0192 -0.0352 0.0718 -0.0227 0.0228  
  
 Columns 7,591 through 7,605  
  
 0.0232 -0.0402 -0.0511 -0.0273 0.0194 -0.0077 0.0054 0.0309 0.0181 0.0518 0.0092 -0.0166 -0.0189 0.0379 -0.0425  
 0.0070 -0.0065 0.0259 0.0019 -0.0409 0.0090 -0.0096 0.0076 0.0039 0.0191 -0.0152 -0.0061 -0.0330 0.0102 -0.0173  
 -0.0211 0.0189 0.0792 0.0214 -0.0667 0.0120 -0.0178 -0.0196 -0.0147 -0.0204 -0.0282 0.0160 -0.0254 -0.0398 0.0061  
  
 Columns 7,606 through 7,620  
  
 -0.0235 0.0240 0.0118 -0.0038 0.0300 0.0110 0.0370 0.0005 0.0059 0.0092 0.0382 0.0138 0.0307 -0.0355 0.0518  
 0.0038 0.0204 -0.0260 -0.0194 -0.0008 0.0033 -0.0015 -0.0045 0.0179 0.0026 0.0257 0.0208 0.0328 -0.0426 0.0151  
 0.0219 -0.0042 -0.0404 -0.0121 -0.0280 -0.0184 -0.0224 0.0058 0.0190 -0.0104 0.0020 0.0138 0.0137 -0.0146 -0.0246  
  
 Columns 7,621 through 7,635  
  
 0.0107 0.0202 -0.0364 -0.0214 0.0009 0.0025 -0.0189 0.0040 0.0704 0.0349 0.0089 -0.0331 0.0015 0.0072 0.0018  
 0.0055 -0.0416 -0.0082 0.0144 -0.0469 -0.0052 -0.0213 0.0233 -0.0075 -0.0282 0.0248 0.0004 0.0381 0.0039 0.0262  
 -0.0072 -0.0690 0.0180 0.0285 -0.0639 -0.0138 -0.0120 0.0282 -0.0626 -0.0684 0.0145 0.0242 0.0470 -0.0171 0.0381  
  
 Columns 7,636 through 7,650  
  
 0.0204 0.0047 -0.0073 0.0047 0.0088 0.0322 -0.0009 0.0089 -0.0041 -0.0254 0.0114 0.0182 -0.0212 0.0197 -0.0173  
 0.0089 -0.0458 -0.0056 0.0001 0.0155 -0.0061 0.0012 0.0290 -0.0371 -0.0040 0.0148 -0.0260 0.0132 0.0081 -0.0635  
 -0.0051 -0.0697 -0.0038 -0.0086 0.0120 -0.0258 0.0014 0.0143 -0.0590 0.0153 0.0145 -0.0515 0.0403 -0.0078 -0.0616  
  
 Columns 7,651 through 7,665  
  
 0.0202 -0.0311 -0.0347 0.0068 0.0150 -0.0292 -0.0024 0.0034 -0.0353 -0.0399 -0.0033 -0.0208 0.0165 -0.0033 0.0018  
 0.0424 0.0363 0.0293 0.0237 -0.0064 -0.0336 -0.0048 0.0120 0.0358 -0.0357 0.0380 -0.0299 0.0325 0.0031 -0.0214  
 0.0198 0.0758 0.0688 0.0234 -0.0209 -0.0137 0.0023 0.0104 0.0684 -0.0112 0.0415 -0.0176 0.0321 0.0110 -0.0051  
  
 Columns 7,666 through 7,680  
  
 -0.0223 0.0147 -0.0082 -0.0194 0.0224 0.0162 0.0016 0.0131 -0.0064 0.0295 -0.0301 -0.0001 -0.0415 -0.0038 0.0052  
 0.0516 -0.0273 -0.0202 -0.0149 -0.0116 0.0183 -0.0049 0.0495 0.0277 0.0344 -0.0270 0.0248 -0.0143 -0.0112 0.0107  
 0.0750 -0.0449 -0.0178 -0.0013 -0.0379 0.0161 -0.0181 0.0436 0.0330 0.0199 -0.0105 0.0280 0.0170 -0.0127 0.0052  
  
 Columns 7,681 through 7,695  
  
 -0.0095 -0.0077 -0.0226 0.0251 -0.0257 0.0235 -0.0193 0.0230 -0.0004 -0.0230 -0.0020 0.0257 0.0231 -0.0155 -0.0223  
 -0.0292 -0.0450 -0.0082 -0.0138 0.0027 -0.0088 0.0239 -0.0110 0.0120 0.0180 0.0091 -0.0075 0.0128 -0.0167 -0.0233  
 -0.0246 -0.0336 0.0145 -0.0357 0.0138 -0.0359 0.0380 -0.0343 0.0118 0.0491 0.0123 -0.0211 0.0013 -0.0154 -0.0127  
  
 Columns 7,696 through 7,710  
  
 0.0068 -0.0070 0.0022 0.0018 -0.0015 0.0047 -0.0030 -0.0001 0.0037 0.0495 -0.0176 0.0345 -0.0270 0.0060 -0.0212  
 -0.0143 -0.0080 -0.0184 -0.0151 -0.0208 -0.0145 -0.0101 0.0368 -0.0147 0.0386 -0.0330 0.0505 -0.0155 -0.0489 0.0143  
 -0.0294 0.0007 -0.0327 -0.0145 -0.0154 -0.0207 -0.0113 0.0534 -0.0212 -0.0039 -0.0209 0.0282 -0.0076 -0.0600 0.0356  
  
 Columns 7,711 through 7,725  
  
 0.0101 0.0445 -0.0097 0.0088 0.0079 0.0090 0.0086 -0.0083 0.0281 -0.0664 -0.0008 -0.0053 -0.0040 -0.0181 -0.0026  
 -0.0650 0.0379 0.0433 0.0188 0.0164 0.0126 -0.0224 0.0113 -0.0052 -0.0025 -0.0259 0.0073 0.0020 -0.0170 -0.0104  
 -0.0950 0.0243 0.0508 0.0322 0.0150 0.0025 -0.0458 0.0143 -0.0309 0.0436 -0.0308 0.0184 0.0138 -0.0002 -0.0199  
  
 Columns 7,726 through 7,740  
  
 -0.0481 -0.0044 -0.0027 0.0127 -0.0185 -0.0239 0.0041 0.0378 0.0117 0.0446 0.0270 -0.0057 0.0213 -0.0361 -0.0229  
 -0.0432 -0.0327 -0.0279 0.0016 0.0216 0.0014 0.0263 0.0174 -0.0160 -0.0181 -0.0012 -0.0045 0.0281 -0.0236 0.0218  
 -0.0084 -0.0278 -0.0236 0.0068 0.0446 0.0256 0.0232 -0.0229 -0.0340 -0.0533 -0.0300 0.0038 0.0101 0.0037 0.0344  
  
 Columns 7,741 through 7,755  
  
 0.0078 -0.0210 -0.0130 0.0027 0.0275 -0.0494 0.0069 -0.0507 -0.0307 -0.0062 -0.0116 0.0244 -0.0287 -0.0286 -0.0157  
 -0.0003 -0.0124 -0.0085 -0.0126 0.0098 -0.0155 -0.0179 -0.0126 -0.0221 0.0063 0.0027 -0.0330 -0.0146 -0.0064 -0.0605  
 -0.0136 -0.0132 0.0104 -0.0074 -0.0044 0.0179 -0.0131 0.0233 0.0022 0.0103 -0.0027 -0.0521 0.0141 0.0214 -0.0597  
  
 Columns 7,756 through 7,770  
  
 0.0162 -0.0069 0.0294 0.0216 0.0047 -0.0006 0.0131 -0.0084 0.0184 -0.0005 -0.0145 0.0014 -0.0108 0.0112 -0.0046  
 -0.0476 -0.0384 0.0327 0.0466 -0.0142 -0.0073 0.0155 0.0297 0.0188 0.0740 0.0179 -0.0106 0.0423 -0.0345 -0.0035  
 -0.0588 -0.0357 0.0179 0.0388 -0.0202 -0.0048 0.0143 0.0514 0.0015 0.0979 0.0408 0.0010 0.0485 -0.0601 0.0120  
  
 Columns 7,771 through 7,785  
  
 0.0049 0.0156 -0.0211 -0.0201 -0.0312 -0.0082 0.0475 0.0236 0.0448 0.0083 -0.0133 -0.0170 0.0305 0.0251 0.0438  
 0.0245 0.0107 -0.0069 -0.0060 -0.0161 -0.0301 -0.0185 0.0074 0.0014 -0.0525 -0.0148 -0.0030 -0.0081 0.0162 0.0201  
 0.0258 0.0023 0.0061 0.0080 0.0261 -0.0260 -0.0505 -0.0240 -0.0239 -0.0782 -0.0258 0.0161 -0.0203 0.0013 -0.0126  
  
 Columns 7,786 through 7,800  
  
 -0.0109 -0.0002 0.0099 -0.0122 0.0259 -0.0160 -0.0382 -0.0122 -0.0046 0.0050 0.0052 -0.0489 0.0212 0.0131 -0.0162  
 0.0080 -0.0104 -0.0042 -0.0211 0.0196 0.0065 0.0379 -0.0159 0.0059 0.0117 0.0307 -0.0120 0.0060 -0.0119 -0.0060  
 0.0166 -0.0082 -0.0113 -0.0213 0.0098 0.0187 0.0808 -0.0072 0.0290 0.0220 0.0327 0.0330 -0.0281 -0.0219 0.0216  
  
 Columns 7,801 through 7,815  
  
 0.0037 -0.0254 0.0290 -0.0417 -0.0020 0.0184 0.0081 0.0136 -0.0095 0.0436 -0.0126 0.0390 0.0517 -0.0051 -0.0239  
 0.0353 0.0028 0.0317 -0.0124 0.0038 0.0314 0.0255 -0.0345 -0.0192 -0.0116 0.0353 0.0134 0.0356 -0.0224 0.0120  
 0.0303 0.0136 0.0230 0.0168 0.0218 0.0207 0.0199 -0.0470 -0.0056 -0.0594 0.0532 -0.0202 -0.0069 -0.0280 0.0383  
  
 Columns 7,816 through 7,830  
  
 -0.0350 -0.0084 0.0110 -0.0122 0.0052 0.0402 -0.0098 0.0318 0.0342 0.0567 0.0134 -0.0386 0.0290 -0.0476 0.0143  
 -0.0139 -0.0187 -0.0114 0.0074 -0.0212 -0.0217 -0.0026 0.0200 -0.0122 0.0340 0.0009 -0.0169 -0.0180 -0.0272 -0.0103  
 0.0198 0.0090 -0.0401 0.0261 -0.0321 -0.0724 0.0203 -0.0023 -0.0376 -0.0006 -0.0057 0.0097 -0.0472 0.0102 -0.0213  
  
 Columns 7,831 through 7,845  
  
 0.0033 -0.0045 -0.0245 0.0334 -0.0428 -0.0040 0.0168 0.0406 0.0248 0.0044 -0.0389 0.0493 -0.0749 0.0589 -0.0044  
 -0.0195 -0.0087 -0.0051 -0.0145 -0.0408 -0.0566 -0.0002 -0.0092 0.0142 -0.0155 0.0170 0.0266 0.0155 0.0080 0.0010  
 -0.0238 0.0013 0.0272 -0.0316 -0.0035 -0.0458 -0.0282 -0.0393 -0.0009 -0.0275 0.0559 -0.0037 0.0760 -0.0477 -0.0046  
  
 Columns 7,846 through 7,860  
  
 -0.0010 0.0032 -0.0033 0.0283 0.0056 0.0218 0.0093 -0.0402 -0.0172 0.0360 -0.0296 0.0001 0.0005 -0.0231 -0.0114  
 -0.0163 -0.0099 -0.0295 -0.0174 0.0496 -0.0391 0.0024 -0.0083 0.0156 0.0105 -0.0043 0.0092 -0.0050 -0.0086 0.0207  
 -0.0241 -0.0045 -0.0209 -0.0354 0.0580 -0.0738 -0.0148 0.0223 0.0344 -0.0104 0.0264 0.0055 -0.0042 0.0010 0.0242  
  
 Columns 7,861 through 7,875  
  
 -0.0461 -0.0124 -0.0151 0.0279 0.0353 -0.0172 -0.0205 -0.0150 -0.0210 -0.0320 0.0321 -0.0048 -0.0107 0.0113 -0.0092  
 0.0131 -0.0230 -0.0179 0.0508 -0.0297 -0.0030 0.0220 -0.0037 -0.0044 0.0078 0.0632 0.0258 -0.0100 0.0024 -0.0237  
 0.0599 -0.0217 -0.0152 0.0450 -0.0586 0.0048 0.0332 0.0074 0.0081 0.0280 0.0476 0.0371 0.0022 -0.0065 -0.0242  
  
 Columns 7,876 through 7,890  
  
 0.0098 -0.0063 -0.0021 -0.0280 -0.0237 0.0128 0.0088 0.0664 0.0003 0.0082 -0.0058 0.0314 -0.0075 0.0064 -0.0020  
 -0.0064 -0.0478 -0.0293 0.0220 -0.0046 -0.0203 0.0045 0.0167 0.0259 -0.0036 -0.0202 -0.0170 -0.0167 -0.0023 0.0233  
 -0.0228 -0.0400 -0.0362 0.0607 0.0048 -0.0264 -0.0101 -0.0371 0.0305 -0.0194 -0.0155 -0.0474 -0.0009 -0.0157 0.0315  
  
 Columns 7,891 through 7,905  
  
 0.0120 0.0088 -0.0148 0.0178 -0.0154 -0.0313 0.0286 -0.0167 -0.0215 -0.0252 -0.0017 -0.0492 0.0006 0.0299 -0.0203  
 -0.0121 0.0009 -0.0015 -0.0254 -0.0344 -0.0145 0.0262 -0.0245 -0.0246 -0.0245 0.0272 0.0104 -0.0222 0.0287 0.0029  
 -0.0275 -0.0006 0.0229 -0.0240 -0.0279 0.0108 0.0173 -0.0153 -0.0031 -0.0015 0.0400 0.0645 -0.0478 0.0117 0.0088  
  
 Columns 7,906 through 7,920  
  
 0.0105 -0.0066 0.0327 0.0130 -0.0346 0.0264 0.0138 0.0580 0.0115 -0.0148 -0.0325 -0.0288 0.0056 0.0111 0.0239  
 -0.0113 -0.0315 -0.0245 0.0328 -0.0078 -0.0222 -0.0015 0.0160 -0.0029 -0.0099 -0.0232 0.0189 0.0006 -0.0203 -0.0447  
 -0.0205 -0.0216 -0.0523 0.0344 0.0095 -0.0426 -0.0084 -0.0248 -0.0197 -0.0037 0.0028 0.0442 0.0058 -0.0325 -0.0736  
  
 Columns 7,921 through 7,935  
  
 -0.0164 -0.0150 0.0106 0.0142 -0.0088 0.0058 0.0206 0.0023 0.0147 -0.0135 -0.0019 -0.0272 -0.0634 -0.0031 0.0082  
 -0.0263 0.0484 -0.0128 0.0393 -0.0179 0.0111 -0.0051 -0.0178 0.0104 0.0177 0.0169 -0.0258 -0.0086 -0.0247 0.0189  
 -0.0103 0.0561 -0.0241 0.0343 -0.0165 -0.0044 -0.0188 -0.0236 -0.0010 0.0457 0.0216 -0.0141 0.0348 -0.0322 0.0130  
  
 Columns 7,936 through 7,950  
  
 0.0181 -0.0196 0.0098 0.0167 0.0055 0.0294 0.0490 -0.0350 -0.0500 -0.0159 0.0296 0.0074 -0.0378 -0.0137 -0.0055  
 0.0050 -0.0041 -0.0214 -0.0319 0.0065 0.0041 -0.0341 0.0092 0.0096 -0.0119 -0.0104 -0.0216 0.0071 -0.0150 0.0009  
 -0.0216 0.0054 -0.0312 -0.0471 0.0197 -0.0238 -0.0861 0.0430 0.0365 0.0017 -0.0476 -0.0297 0.0532 0.0015 -0.0136  
  
 Columns 7,951 through 7,965  
  
 -0.0023 -0.0216 0.0008 0.0043 -0.0461 -0.0295 -0.0152 -0.0211 0.0346 0.0175 0.0192 0.0132 -0.0168 0.0268 -0.0219  
 0.0020 -0.0242 -0.0111 0.0175 -0.0495 -0.0027 0.0061 0.0107 0.0423 0.0026 0.0225 0.0172 -0.0213 0.0483 -0.0320  
 -0.0093 -0.0315 -0.0172 -0.0024 -0.0091 0.0170 0.0138 0.0416 0.0233 0.0035 0.0246 -0.0064 -0.0077 0.0443 -0.0063  
  
 Columns 7,966 through 7,980  
  
 -0.0341 0.0114 -0.0372 -0.0062 -0.0028 -0.0128 -0.0055 0.0401 -0.0066 -0.0242 -0.0273 0.0297 -0.0011 -0.0324 -0.0272  
 -0.0247 0.0287 0.0028 0.0171 0.0206 -0.0134 -0.0435 -0.0318 0.0191 -0.0453 0.0011 -0.0281 -0.0027 -0.0106 -0.0090  
 -0.0106 0.0171 0.0317 0.0405 0.0388 0.0043 -0.0512 -0.0614 0.0325 -0.0275 0.0215 -0.0492 -0.0145 0.0057 0.0058  
  
 Columns 7,981 through 7,995  
  
 -0.0202 0.0226 -0.0371 -0.0080 -0.0272 0.0554 0.0204 -0.0289 -0.0131 0.0344 0.0044 0.0537 0.0108 -0.0029 -0.0022  
 -0.0106 0.0304 -0.0033 -0.0250 -0.0231 0.0141 -0.0056 0.0239 -0.0161 0.0110 0.0042 0.0131 0.0197 -0.0327 0.0175  
 0.0066 0.0128 0.0135 -0.0171 -0.0085 -0.0356 -0.0239 0.0550 0.0064 -0.0229 -0.0107 -0.0345 0.0236 -0.0351 0.0034  
  
 Columns 7,996 through 8,010

0.0130 0.0427 0.0325 0.0184 -0.0166 -0.0123 -0.0323 -0.0070 0.0105 -0.0061 0.0165 0.0272 0.0121 0.0054 0.0281  
 -0.0077 -0.0003 -0.0232 -0.0395 -0.0257 0.0045 -0.0165 0.0074 0.0241 -0.0261 0.0044 0.0107 0.0026 0.0048 -0.0121  
 -0.0256 -0.0177 -0.0589 -0.0682 -0.0160 0.0090 0.0059 0.0180 0.0215 -0.0326 -0.0231 -0.0021 -0.0009 -0.0024 -0.0488  
  
 Columns 8,011 through 8,025  
  
 0.0153 0.0249 -0.0006 -0.0112 0.0259 0.0149 0.0357 0.0511 -0.0275 0.0160 0.0440 -0.0115 -0.0235 0.0264 0.0177  
 -0.0134 0.0372 0.0071 -0.0123 0.0067 -0.0360 0.0405 -0.0140 0.0024 -0.0026 0.0172 -0.0244 -0.0286 -0.0029 0.0149  
 -0.0305 0.0151 0.0139 -0.0139 -0.0044 -0.0571 0.0200 -0.0597 0.0299 -0.0222 -0.0329 -0.0321 -0.0171 -0.0206 0.0093  
  
 Columns 8,026 through 8,040  
  
 -0.0024 -0.0074 -0.0179 0.0394 -0.0389 -0.0208 -0.0097 0.0189 0.0251 0.0069 0.0066 0.0025 -0.0156 -0.0072 -0.0192  
 -0.0044 -0.0355 0.0258 -0.0006 0.0372 0.0082 -0.0038 0.0021 0.0051 0.0082 0.0510 -0.0310 -0.0173 -0.0017 0.0075  
 -0.0025 -0.0338 0.0486 -0.0309 0.0623 0.0376 0.0071 -0.0165 -0.0194 -0.0015 0.0424 -0.0251 0.0016 0.0177 0.0280  
  
 Columns 8,041 through 8,055  
  
 -0.0130 0.0091 -0.0085 -0.0210 0.0165 -0.0025 -0.0123 0.0419 0.0082 -0.0051 -0.0169 -0.0165 0.0036 -0.0194 -0.0058  
 -0.0216 0.0175 -0.0335 0.0114 0.0016 0.0177 -0.0382 -0.0060 -0.0008 -0.0190 0.0085 -0.0169 -0.0051 0.0055 -0.0193  
 -0.0225 0.0145 -0.0304 0.0205 -0.0186 0.0313 -0.0393 -0.0418 -0.0131 -0.0175 0.0174 -0.0044 0.0021 0.0210 -0.0148  
  
 Columns 8,056 through 8,070  
  
 -0.0042 -0.0317 -0.0032 0.0066 0.0238 -0.0231 0.0133 -0.0088 0.0238 0.0103 -0.0010 -0.0127 0.0311 0.0073 -0.0202  
 0.0071 -0.0410 -0.0170 0.0462 -0.0168 -0.0163 0.0034 0.0158 0.0571 0.0432 -0.0193 -0.0010 0.0316 -0.0050 -0.0500  
 -0.0012 -0.0196 -0.0160 0.0446 -0.0402 -0.0001 -0.0120 0.0332 0.0312 0.0479 -0.0274 -0.0029 0.0034 -0.0163 -0.0307  
  
 Columns 8,071 through 8,085  
  
 -0.0455 0.0020 0.0267 0.0120 0.0019 0.0062 -0.0420 0.0132 -0.0358 -0.0020 -0.0060 -0.0340 0.0315 0.0303 0.0161  
 -0.0052 -0.0103 0.0012 0.0004 0.0316 -0.0282 0.0229 -0.0115 0.0207 0.0074 0.0196 -0.0259 0.0247 0.0082 -0.0467  
 0.0413 0.0037 -0.0362 -0.0090 0.0400 -0.0421 0.0645 -0.0128 0.0466 0.0132 0.0211 0.0111 0.0004 -0.0018 -0.0783  
  
 Columns 8,086 through 8,100  
  
 -0.0032 -0.0110 -0.0136 -0.0253 0.0130 -0.0287 0.0425 -0.0126 0.0648 -0.0326 -0.0041 -0.0097 -0.0263 -0.0417 0.0134  
 0.0279 0.0060 -0.0060 0.0007 -0.0227 -0.0274 -0.0375 -0.0364 0.0163 -0.0027 -0.0013 0.0173 -0.0218 -0.0094 0.0179  
 0.0335 0.0147 0.0048 0.0222 -0.0487 0.0014 -0.0747 -0.0255 -0.0227 0.0136 0.0037 0.0416 -0.0082 0.0166 0.0059  
  
 Columns 8,101 through 8,115  
  
 0.0257 0.0327 -0.0540 -0.0178 -0.0297 -0.0124 0.0053 -0.0040 -0.0040 0.0032 0.0101 -0.0407 0.0165 -0.0082 0.0042  
 -0.0214 -0.0334 -0.0021 -0.0079 -0.0591 0.0032 -0.0024 0.0130 -0.0019 0.0107 0.0012 0.0483 -0.0077 0.0005 0.0456  
 -0.0535 -0.0739 0.0388 0.0149 -0.0437 0.0138 -0.0222 0.0158 -0.0072 0.0199 -0.0102 0.0981 -0.0328 0.0163 0.0589  
  
 Columns 8,116 through 8,130  
  
 -0.0141 -0.0651 0.0093 -0.0082 -0.0231 -0.0358 0.0485 -0.0325 -0.0109 -0.0163 -0.0127 0.0186 0.0235 0.0246 -0.0033  
 0.0036 0.0312 0.0200 0.0005 0.0491 -0.0049 0.0126 -0.0262 0.0327 0.0422 -0.0034 -0.0199 -0.0285 -0.0173 -0.0143  
 -0.0021 0.0930 0.0112 -0.0021 0.0931 0.0292 -0.0174 -0.0037 0.0413 0.0531 -0.0147 -0.0465 -0.0561 -0.0410 -0.0266  
  
 Columns 8,131 through 8,145  
  
 0.0248 -0.0137 -0.0016 -0.0044 0.0285 -0.0088 0.0464 0.0149 -0.0003 -0.0540 0.0180 -0.0136 -0.0260 0.0177 0.0180  
 -0.0250 -0.0247 -0.0272 0.0092 -0.0373 0.0159 0.0043 -0.0195 -0.0074 -0.0253 -0.0032 0.0211 0.0165 -0.0121 0.0140  
 -0.0488 -0.0044 -0.0222 0.0137 -0.0619 0.0306 -0.0464 -0.0324 0.0046 0.0150 -0.0116 0.0386 0.0618 -0.0247 -0.0001  
  
 Columns 8,146 through 8,160  
  
 -0.0527 0.0158 -0.0292 -0.0123 -0.0181 -0.0128 -0.0198 0.0577 0.0070 0.0269 0.0140 0.0123 0.0217 0.0206 0.0073  
 0.0138 -0.0168 0.0181 -0.0269 -0.0423 0.0019 0.0119 0.0262 -0.0117 0.0317 -0.0063 -0.0073 0.0347 0.0011 0.0277  
 0.0605 -0.0144 0.0411 -0.0207 -0.0272 0.0152 0.0207 -0.0301 -0.0224 0.0225 -0.0240 -0.0230 0.0244 -0.0232 0.0286  
  
 Columns 8,161 through 8,175  
  
 0.0162 0.0021 0.0280 -0.0180 0.0416 0.0028 0.0029 -0.0029 0.0048 -0.0210 -0.0245 -0.0035 -0.0002 -0.0122 -0.0026  
 0.0101 -0.0263 0.0062 -0.0034 -0.0204 0.0230 0.0027 -0.0007 -0.0059 -0.0273 0.0330 -0.0312 -0.0280 0.0097 -0.0208  
 -0.0058 -0.0417 -0.0267 0.0143 -0.0577 0.0390 0.0026 0.0121 -0.0191 -0.0165 0.0519 -0.0267 -0.0247 0.0103 -0.0235  
  
 Columns 8,176 through 8,190  
  
 0.0188 0.0126 0.0441 -0.0349 0.0122 -0.0136 0.0025 -0.0109 -0.0159 0.0411 0.0028 -0.0007 0.0127 0.0207 0.0088  
 0.0091 -0.0075 0.0273 -0.0110 0.0093 -0.0532 -0.0369 0.0063 -0.0237 0.0354 0.0151 0.0176 -0.0508 0.0242 0.0154  
 0.0124 -0.0148 -0.0077 0.0105 -0.0036 -0.0552 -0.0402 0.0191 0.0066 -0.0087 0.0209 0.0094 -0.0784 0.0170 0.0122  
  
 Columns 8,191 through 8,205  
  
 -0.0353 0.0326 -0.0538 0.0060 -0.0166 0.0111 0.0224 -0.0249 -0.0078 -0.0251 0.0036 -0.0316 -0.0037 -0.0524 0.0014  
 0.0328 -0.0040 -0.0426 -0.0080 -0.0105 -0.0041 -0.0032 -0.0065 0.0506 -0.0235 -0.0147 0.0239 0.0422 -0.0407 -0.0344  
 0.0778 -0.0335 -0.0036 -0.0074 0.0063 -0.0128 -0.0245 0.0068 0.0664 -0.0050 -0.0195 0.0439 0.0382 -0.0141 -0.0315  
  
 Columns 8,206 through 8,220  
  
 0.0019 0.0383 -0.0574 -0.0198 -0.0011 -0.0104 0.0059 0.0141 0.0184 0.0465 -0.0163 -0.0172 0.0040 0.0106 -0.0186  
 0.0070 -0.0100 -0.0127 -0.0074 -0.0029 -0.0328 0.0043 -0.0070 -0.0283 0.0122 -0.0098 0.0582 0.0011 0.0009 -0.0030  
 0.0019 -0.0441 0.0336 0.0072 -0.0113 -0.0287 -0.0021 -0.0197 -0.0448 -0.0193 0.0179 0.0757 -0.0028 -0.0068 0.0173  
  
 Columns 8,221 through 8,235  
  
 0.0472 0.0713 0.0208 0.0255 -0.0305 -0.0040 0.0357 0.0111 0.0054 0.0062 0.0629 -0.0026 0.0112 -0.0250 -0.0527  
 0.0075 0.0384 -0.0246 -0.0095 0.0184 -0.0117 -0.0028 0.0077 -0.0065 0.0395 0.0109 0.0230 0.0124 0.0117 -0.0283  
 -0.0297 -0.0192 -0.0419 -0.0289 0.0467 -0.0289 -0.0374 -0.0231 -0.0165 0.0536 -0.0410 0.0125 -0.0031 0.0352 0.0135  
  
 Columns 8,236 through 8,250  
  
 -0.0105 -0.0129 0.0067 0.0173 0.0065 -0.0083 -0.0438 -0.0092 0.0284 0.0175 0.0235 -0.0064 -0.0019 0.0043 -0.0124  
 -0.0085 0.0098 -0.0004 -0.0323 0.0103 0.0140 -0.0349 -0.0271 0.0382 -0.0132 -0.0221 -0.0008 0.0310 0.0159 -0.0482  
 0.0024 0.0247 -0.0133 -0.0530 0.0086 0.0292 0.0097 -0.0217 0.0185 -0.0328 -0.0447 0.0122 0.0387 0.0189 -0.0385  
  
 Columns 8,251 through 8,265  
  
 0.0191 0.0102 -0.0102 -0.0123 0.0105 0.0441 0.0183 0.0330 0.0027 -0.0210 0.0016 -0.0211 -0.0447 0.0091 0.0189  
 0.0061 -0.0328 -0.0137 -0.0389 0.0032 0.0179 0.0222 0.0299 0.0097 -0.0178 -0.0240 -0.0514 -0.0266 -0.0093 -0.0277  
 0.0042 -0.0437 -0.0048 -0.0271 -0.0175 -0.0290 0.0089 0.0066 -0.0085 0.0019 -0.0393 -0.0536 0.0313 -0.0089 -0.0478  
  
 Columns 8,266 through 8,280  
  
 0.0134 0.0290 0.0203 0.0168 -0.0042 -0.0416 0.0031 0.0032 -0.0178 0.0178 -0.0047 0.0007 -0.0179 0.0089 0.0204  
 0.0189 -0.0076 0.0138 -0.0131 0.0029 -0.0133 -0.0269 -0.0403 -0.0604 -0.0197 0.0052 -0.0016 -0.0281 -0.0068 -0.0439  
 0.0233 -0.0367 -0.0016 -0.0241 0.0031 0.0110 -0.0237 -0.0443 -0.0558 -0.0439 0.0135 -0.0143 -0.0182 -0.0140 -0.0622  
  
 Columns 8,281 through 8,295  
  
 0.0279 -0.0047 -0.0032 -0.0018 0.0295 0.0254 -0.0268 0.0112 -0.0086 -0.0024 -0.0261 0.0158 0.0064 -0.0431 -0.0083  
 0.0292 -0.0174 0.0138 -0.0459 -0.0080 0.0213 -0.0306 0.0064 -0.0268 0.0103 0.0040 0.0021 0.0431 -0.0407 0.0174  
 -0.0056 -0.0141 0.0232 -0.0577 -0.0355 -0.0022 -0.0098 -0.0085 -0.0211 0.0100 0.0241 -0.0090 0.0435 -0.0057 0.0323  
  
 Columns 8,296 through 8,310  
  
 -0.0600 -0.0071 -0.0107 -0.0331 -0.0100 0.0121 0.0276 0.0033 0.0237 -0.0340 0.0252 -0.0292 -0.0082 -0.0229 0.0189  
 0.0202 0.0039 0.0175 -0.0145 0.0275 -0.0431 -0.0368 -0.0069 -0.0167 0.0574 0.0712 -0.0276 0.0154 -0.0331 -0.0015  
 0.0644 0.0086 0.0315 0.0079 0.0472 -0.0619 -0.0782 0.0048 -0.0338 0.1004 0.0822 -0.0133 0.0301 -0.0098 -0.0075  
  
 Columns 8,311 through 8,325  
  
 0.0152 0.0081 -0.0176 -0.0217 0.0025 -0.0154 0.0046 0.0382 -0.0217 0.0114 0.0139 0.0021 0.0281 0.0370 -0.0296  
 0.0079 0.0188 0.0281 0.0007 -0.0085 0.0290 0.0065 0.0312 0.0201 -0.0352 -0.0068 -0.0057 -0.0421 0.0282 -0.0106  
 0.0066 0.0232 0.0495 0.0106 -0.0190 0.0482 0.0122 0.0110 0.0207 -0.0580 -0.0218 0.0063 -0.0806 -0.0007 0.0176  
  
 Columns 8,326 through 8,340  
  
 0.0097 -0.0078 -0.0245 -0.0271 0.0032 -0.0077 0.0180 0.0237 0.0007 0.0337 0.0020 -0.0134 0.0202 -0.0030 0.0028  
 -0.0162 -0.0155 0.0166 0.0113 0.0116 -0.0227 -0.0077 -0.0017 0.0211 0.0065 0.0086 0.0300 0.0426 0.0127 -0.0313  
 -0.0076 -0.0025 0.0377 0.0366 0.0176 -0.0056 -0.0229 -0.0077 0.0145 -0.0073 -0.0019 0.0391 0.0380 0.0158 -0.0393  
  
 Columns 8,341 through 8,355  
  
 0.0006 -0.0264 0.0458 -0.0380 -0.0234 -0.0277 -0.0173 0.0246 0.0054 0.0043 0.0309 -0.0392 0.0311 0.0024 -0.0265  
 0.0489 -0.0338 -0.0028 -0.0108 0.0033 0.0065 -0.0122 -0.0206 -0.0276 -0.0129 -0.0039 -0.0098 0.0164 0.0077 -0.0107  
 0.0502 -0.0145 -0.0375 0.0167 0.0148 0.0353 0.0092 -0.0458 -0.0302 -0.0224 -0.0329 0.0224 0.0093 0.0029 0.0080  
  
 Columns 8,356 through 8,370  
  
 0.0055 0.0087 0.0006 -0.0082 0.0052 -0.0150 0.0030 0.0215 0.0434 -0.0482 0.0073 -0.0315 -0.0220 -0.0164 -0.0090  
 -0.0090 0.0006 0.0431 0.0064 0.0431 -0.0108 0.0057 0.0417 0.0203 -0.0207 0.0231 -0.0044 0.0079 0.0008 0.0016  
 -0.0117 -0.0020 0.0524 0.0198 0.0596 0.0011 0.0225 0.0336 -0.0152 0.0191 0.0111 0.0274 0.0391 0.0191 0.0154  
  
 Columns 8,371 through 8,385  
  
 -0.0078 0.0062 -0.0001 0.0093 0.0248 -0.0296 0.0229 0.0099 0.0022 -0.0198 0.0081 0.0312 -0.0371 -0.0199 -0.0309  
 0.0020 -0.0263 0.0023 -0.0533 0.0127 -0.0180 -0.0094 -0.0147 0.0118 -0.0156 -0.0057 0.0173 -0.0184 0.0014 -0.0364  
 0.0060 -0.0300 -0.0065 -0.0661 0.0008 0.0163 -0.0509 -0.0188 0.0037 0.0028 -0.0004 -0.0022 0.0076 0.0335 -0.0306  
  
 Columns 8,386 through 8,400  
  
 0.0001 -0.0019 -0.0057 -0.0103 0.0424 -0.0440 0.0011 0.0135 0.0158 -0.0066 -0.0206 -0.0232 0.0171 -0.0221 -0.0049  
 0.0197 -0.0042 -0.0171 0.0057 0.0014 -0.0301 -0.0042 0.0023 0.0362 0.0054 -0.0029 -0.0071 0.0213 -0.0105 0.0017  
 0.0220 0.0035 -0.0263 0.0338 -0.0361 -0.0003 -0.0199 -0.0143 0.0395 0.0123 0.0082 0.0051 -0.0058 0.0036 0.0154  
  
 Columns 8,401 through 8,415  
  
 -0.0091 -0.0127 -0.0114 0.0212 -0.0013 -0.0294 0.0274 0.0058 0.0266 -0.0159 0.0136 -0.0182 0.0148 -0.0006 -0.0263  
 0.0108 -0.0172 -0.0322 -0.0079 -0.0128 -0.0037 0.0080 -0.0063 0.0046 -0.0069 0.0209 0.0018 0.0214 0.0281 -0.0253  
 0.0250 -0.0136 -0.0262 -0.0249 -0.0130 0.0124 -0.0221 -0.0142 -0.0221 0.0201 0.0301 0.0280 0.0139 0.0394 -0.0131  
  
 Columns 8,416 through 8,430  
  
 -0.0120 -0.0075 -0.0090 0.0174 -0.0084 0.0096 0.0099 0.0342 0.0091 0.0062 0.0048 -0.0011 0.0080 -0.0233 0.0182  
 -0.0303 -0.0013 0.0253 0.0070 0.0290 0.0197 -0.0227 -0.0248 0.0204 0.0047 -0.0122 0.0261 0.0298 0.0036 0.0147  
 -0.0095 0.0037 0.0359 -0.0260 0.0538 0.0097 -0.0364 -0.0584 0.0224 0.0063 -0.0051 0.0391 0.0238 0.0253 0.0056  
  
 Columns 8,431 through 8,445  
  
 0.0211 0.0050 0.0212 0.0031 -0.0049 0.0201 -0.0134 0.0086 -0.0105 -0.0126 -0.0138 0.0234 0.0008 -0.0182 0.0251  
 -0.0007 -0.0177 0.0076 0.0236 -0.0194 0.0166 0.0180 -0.0035 0.0055 0.0004 -0.0059 0.0222 -0.0074 -0.0241 0.0012  
 -0.0251 -0.0260 -0.0064 0.0269 -0.0107 -0.0061 0.0239 -0.0138 0.0237 -0.0144 -0.0077 0.0119 -0.0126 -0.0135 -0.0137  
  
 Columns 8,446 through 8,460  
  
 0.0124 0.0126 0.0295 -0.0148 -0.0003 -0.0102 0.0103 -0.0280 0.0059 -0.0298 -0.0187 -0.0171 -0.0378 0.0262 0.0026  
 -0.0070 -0.0258 0.0017 -0.0201 -0.0233 0.0376 0.0121 -0.0252 0.0175 -0.0158 0.0023 -0.0045 0.0071 0.0050 -0.0019  
 -0.0349 -0.0456 -0.0255 -0.0105 -0.0192 0.0525 -0.0036 -0.0183 0.0058 -0.0036 0.0138 -0.0006 0.0459 -0.0164 -0.0062  
  
 Columns 8,461 through 8,475  
  
 -0.0005 0.0036 -0.0212 -0.0175 0.0090 0.0008 0.0398 0.0271 -0.0036 0.0051 0.0085 0.0209 0.0084 -0.0230 -0.0124  
 -0.0150 0.0312 -0.0122 0.0106 -0.0262 0.0047 0.0295 -0.0287 0.0137 -0.0250 0.0067 0.0203 0.0032 -0.0243 0.0296  
 -0.0149 0.0350 0.0028 0.0395 -0.0396 0.0080 -0.0111 -0.0619 0.0164 -0.0254 -0.0059 -0.0114 -0.0044 -0.0021 0.0369  
  
 Columns 8,476 through 8,490  
  
 0.0083 0.0010 -0.0168 0.0143 0.0570 0.0168 -0.0181 0.0050 0.0287 -0.0113 -0.0218 -0.0044 -0.0062 -0.0047 -0.0146  
 -0.0298 -0.0135 0.0139 0.0357 0.0094 0.0266 0.0067 -0.0016 0.0110 -0.0157 -0.0234 -0.0243 -0.0110 -0.0254 -0.0198  
 -0.0466 -0.0143 0.0357 0.0496 -0.0367 0.0314 0.0227 -0.0049 -0.0121 -0.0125 -0.0145 -0.0338 -0.0174 -0.0256 -0.0108  
  
 Columns 8,491 through 8,505  
  
 -0.0014 -0.0140 -0.0061 0.0038 -0.0128 -0.0287 0.0181 -0.0005 -0.0218 0.0234 -0.0232 -0.0078 0.0245 0.0055 -0.0263  
 0.0033 0.0061 -0.0162 -0.0137 -0.0092 -0.0461 -0.0123 -0.0027 0.0200 0.0309 0.0152 0.0200 -0.0020 0.0003 0.0142

0.0105 0.0189 -0.0222 -0.0312 0.0071 -0.0327 -0.0305 0.0072 0.0329 0.0178 0.0433 0.0231 -0.0302 0.0066 0.0373  
  
 Columns 8,506 through 8,520  
  
 -0.0032 -0.0157 -0.0225 -0.0146 -0.0028 0.0057 -0.0112 -0.0007 0.0045 0.0132 -0.0112 -0.0083 -0.0134 -0.0273 0.0017  
 -0.0316 -0.0365 0.0161 -0.0106 -0.0289 -0.0186 -0.0153 -0.0187 -0.0042 0.0095 0.0342 -0.0100 0.0283 0.0360 -0.0015  
 -0.0463 -0.0415 0.0436 0.0053 -0.0338 -0.0270 -0.0065 -0.0090 0.0021 -0.0049 0.0358 0.0003 0.0578 0.0634 -0.0044  
  
 Columns 8,521 through 8,535  
  
 0.0045 -0.0073 -0.0384 -0.0187 -0.0660 -0.0192 -0.0122 0.0321 0.0238 -0.0021 0.0071 0.0326 0.0118 -0.0329 0.0148  
 -0.0088 -0.0094 0.0045 -0.0133 -0.0271 -0.0283 -0.0190 0.0005 0.0162 0.0128 -0.0116 0.0151 0.0293 -0.0150 -0.0028  
 -0.0143 -0.0159 0.0433 0.0088 0.0095 -0.0255 -0.0036 -0.0335 -0.0097 0.0156 -0.0303 -0.0165 0.0249 0.0058 -0.0138  
  
 Columns 8,536 through 8,550  
  
 -0.0016 -0.0396 -0.0279 0.0279 0.0062 0.0431 -0.0043 0.0020 -0.0085 -0.0180 -0.0019 0.0194 0.0347 -0.0037 0.0297  
 0.0077 0.0060 0.0447 -0.0139 -0.0238 -0.0235 0.0087 0.0027 -0.0057 0.0280 0.0066 0.0014 0.0349 0.0235 0.0072  
 0.0026 0.0519 0.0795 -0.0294 -0.0235 -0.0687 0.0190 0.0046 0.0020 0.0552 0.0181 -0.0270 0.0023 0.0272 -0.0055  
  
 Columns 8,551 through 8,565  
  
 0.0079 0.0396 -0.0040 -0.0348 0.0366 0.0015 0.0264 -0.0100 0.0033 -0.0367 -0.0009 0.0128 -0.0018 0.0275 -0.0071  
 0.0338 0.0140 -0.0142 -0.0392 0.0579 -0.0009 0.0113 -0.0049 0.0051 0.0329 0.0047 0.0186 0.0334 -0.0149 -0.0223  
 0.0148 -0.0314 -0.0290 -0.0220 0.0446 -0.0010 -0.0016 -0.0003 0.0023 0.0576 -0.0171 0.0259 0.0365 -0.0502 -0.0160  
  
 Columns 8,566 through 8,580  
  
 0.0384 0.0281 0.0183 -0.0260 -0.0179 -0.0156 -0.0117 0.0081 0.0041 -0.0184 0.0219 0.0266 -0.0005 0.0023 -0.0054  
 0.0079 -0.0113 0.0142 -0.0036 0.0089 0.0005 0.0002 0.0020 0.0248 0.0365 0.0109 0.0284 -0.0166 0.0057 -0.0151  
 -0.0133 -0.0384 0.0125 0.0201 0.0189 0.0308 -0.0082 0.0022 0.0351 0.0543 -0.0028 0.0200 -0.0186 0.0043 -0.0089  
  
 Columns 8,581 through 8,595  
  
 -0.0139 0.0323 -0.0058 -0.0029 0.0236 0.0089 0.0515 -0.0192 -0.0298 0.0212 0.0157 -0.0449 0.0025 0.0279 -0.0177  
 -0.0092 0.0105 0.0003 -0.0031 0.0167 0.0037 -0.0223 -0.0331 -0.0400 -0.0077 0.0056 0.0065 -0.0179 -0.0405 -0.0029  
 -0.0012 0.0029 0.0046 0.0145 -0.0075 -0.0068 -0.0702 -0.0074 -0.0198 -0.0176 -0.0043 0.0502 -0.0139 -0.0726 0.0220  
  
 Columns 8,596 through 8,610  
  
 -0.0247 -0.0229 -0.0249 0.0539 0.0205 -0.0519 0.0090 0.0089 -0.0052 -0.0295 0.0043 -0.0471 0.0121 0.0217 -0.0044  
 -0.0507 -0.0030 -0.0218 0.0154 0.0025 -0.0023 -0.0100 0.0328 -0.0019 -0.0087 -0.0242 -0.0085 -0.0263 -0.0283 -0.0336  
 -0.0421 0.0219 0.0046 -0.0321 -0.0026 0.0459 -0.0095 0.0215 -0.0004 0.0176 -0.0259 0.0231 -0.0425 -0.0547 -0.0485  
  
 Columns 8,611 through 8,625  
  
 0.0237 -0.0100 -0.0439 0.0441 0.0400 0.0134 0.0276 0.0127 -0.0103 0.0161 -0.0100 0.0209 0.0072 -0.0135 0.0078  
 -0.0011 -0.0184 0.0287 0.0305 0.0303 -0.0571 -0.0114 0.0131 -0.0187 0.0311 -0.0090 -0.0243 0.0085 -0.0333 0.0363  
 -0.0125 -0.0142 0.0676 0.0038 -0.0068 -0.0734 -0.0449 0.0165 -0.0206 0.0128 0.0024 -0.0532 0.0034 -0.0280 0.0320  
  
 Columns 8,626 through 8,640  
  
 -0.0026 0.0167 0.0128 -0.0043 -0.0017 0.0094 0.0126 -0.0136 0.0420 0.0038 -0.0006 -0.0102 -0.0577 -0.0107 -0.0121  
 0.0195 0.0550 0.0121 -0.0057 0.0237 0.0008 0.0137 -0.0154 -0.0177 -0.0068 0.0145 0.0081 -0.0334 -0.0022 -0.0186  
 0.0211 0.0462 0.0003 -0.0113 0.0240 -0.0106 0.0153 0.0020 -0.0616 -0.0165 0.0162 0.0066 0.0041 0.0158 -0.0073  
  
 Columns 8,641 through 8,655  
  
 0.0057 0.0406 -0.0018 0.0017 0.0379 0.0549 -0.0051 0.0043 0.0014 0.0079 0.0109 0.0222 -0.0266 0.0331 -0.0072  
 -0.0048 0.0257 0.0054 0.0224 -0.0104 0.0291 -0.0004 0.0003 0.0258 -0.0026 -0.0056 -0.0419 -0.0278 -0.0081 0.0012  
 0.0100 0.0048 0.0187 0.0162 -0.0500 -0.0143 0.0146 -0.0128 0.0253 -0.0094 -0.0266 -0.0527 -0.0194 -0.0534 0.0074  
  
 Columns 8,656 through 8,670  
  
 0.0193 -0.0303 0.0116 0.0007 0.0106 0.0235 -0.0280 0.0021 -0.0411 -0.0191 -0.0079 -0.0249 0.0146 0.0146 -0.0352  
 0.0346 -0.0051 0.0105 0.0082 -0.0352 -0.0086 0.0048 -0.0238 -0.0688 0.0167 -0.0337 -0.0403 0.0152 -0.0009 -0.0249  
 0.0163 0.0133 0.0094 0.0051 -0.0548 -0.0313 0.0276 -0.0450 -0.0480 0.0379 -0.0319 -0.0300 0.0073 -0.0115 0.0011  
  
 Columns 8,671 through 8,685  
  
 0.0646 0.0019 0.0037 0.0130 -0.0244 0.0134 -0.0075 0.0121 -0.0049 0.0417 -0.0276 -0.0268 0.0246 -0.0212 -0.0329  
 -0.0206 -0.0189 -0.0452 0.0044 0.0019 -0.0139 -0.0008 0.0622 0.0059 0.0003 0.0300 -0.0043 0.0101 -0.0006 -0.0061  
 -0.0738 -0.0272 -0.0498 -0.0114 0.0298 -0.0149 0.0098 0.0528 0.0122 -0.0491 0.0550 0.0103 -0.0047 0.0186 0.0143  
  
 Columns 8,686 through 8,700  
  
 0.0326 -0.0106 -0.0003 0.0121 -0.0085 -0.0530 -0.0009 0.0227 -0.0237 -0.0165 0.0089 0.0080 -0.0111 -0.0283 0.0037  
 0.0290 0.0090 0.0294 -0.0008 0.0064 -0.0261 0.0127 -0.0154 -0.0207 -0.0058 0.0442 -0.0171 -0.0144 0.0111 -0.0253  
 0.0036 0.0225 0.0353 -0.0116 0.0046 0.0114 0.0091 -0.0297 -0.0085 0.0152 0.0431 -0.0217 0.0073 0.0451 -0.0299  
  
 Columns 8,701 through 8,715  
  
 -0.0262 0.0154 0.0133 0.0016 0.0322 0.0120 0.0152 0.0088 -0.0396 -0.0021 -0.0260 0.0021 -0.0406 -0.0050 -0.0091  
 -0.0328 -0.0133 0.0049 0.0155 0.0119 0.0419 0.0145 0.0210 -0.0145 -0.0424 -0.0160 0.0032 0.0007 -0.0020 0.0148  
 -0.0182 -0.0515 -0.0093 0.0023 -0.0160 0.0427 -0.0025 0.0003 0.0079 -0.0406 0.0070 0.0093 0.0381 0.0105 0.0279  
  
 Columns 8,716 through 8,730  
  
 -0.0062 0.0239 0.0099 -0.0189 -0.0370 0.0067 -0.0036 -0.0082 -0.0087 -0.0186 0.0515 -0.0124 0.0069 0.0078 -0.0359  
 0.0177 0.0457 -0.0371 0.0029 -0.0261 0.0159 0.0051 0.0079 0.0008 0.0068 0.0527 -0.0072 -0.0094 0.0132 -0.0437  
 0.0366 0.0281 -0.0583 0.0246 -0.0079 -0.0006 0.0029 0.0076 0.0125 0.0137 0.0231 0.0121 -0.0075 0.0172 -0.0375  
  
 Columns 8,731 through 8,745  
  
 -0.0089 0.0058 0.0262 0.0248 0.0121 -0.0155 -0.0354 0.0168 -0.0193 -0.0184 -0.0204 -0.0207 -0.0154 -0.0072 0.0264  
 0.0201 -0.0053 -0.0163 0.0205 -0.0122 -0.0284 0.0211 -0.0087 0.0054 0.0140 -0.0182 -0.0184 0.0008 0.0130 0.0089  
 0.0242 -0.0108 -0.0364 0.0146 -0.0207 -0.0116 0.0696 -0.0228 0.0224 0.0227 -0.0151 -0.0033 0.0103 0.0153 -0.0171  
  
 Columns 8,746 through 8,760  
  
 0.0268 -0.0349 -0.0304 -0.0103 -0.0349 0.0076 0.0092 0.0321 0.0008 0.0079 0.0352 0.0002 -0.0179 0.0014 -0.0128  
 0.0103 -0.0083 -0.0347 -0.0035 -0.0091 0.0289 0.0266 0.0304 -0.0258 -0.0217 0.0066 -0.0099 0.0128 -0.0496 0.0033  
 -0.0054 0.0196 -0.0185 0.0060 0.0176 0.0379 0.0282 0.0243 -0.0361 -0.0233 -0.0239 -0.0156 0.0405 -0.0531 0.0068  
  
 Columns 8,761 through 8,775  
  
 -0.0028 -0.0530 0.0140 0.0260 -0.0131 -0.0239 -0.0042 0.0220 0.0181 0.0174 -0.0199 0.0049 0.0643 0.0130 0.0231  
 0.0090 -0.0104 -0.0151 0.0105 0.0043 -0.0218 -0.0149 -0.0158 -0.0015 0.0339 -0.0477 -0.0157 0.0507 0.0174 0.0113  
 0.0146 0.0339 -0.0363 -0.0169 0.0172 -0.0052 -0.0259 -0.0343 -0.0053 0.0195 -0.0376 -0.0117 -0.0165 0.0199 -0.0086  
  
 Columns 8,776 through 8,790  
  
 0.0012 -0.0100 0.0267 0.0394 -0.0021 0.0174 0.0046 0.0197 -0.0343 0.0239 0.0002 0.0308 -0.0065 -0.0132 -0.0010  
 0.0135 -0.0448 0.0498 0.0338 -0.0273 -0.0032 0.0047 -0.0317 -0.0293 0.0087 -0.0005 -0.0067 0.0025 0.0145 0.0253  
 -0.0016 -0.0403 0.0373 0.0068 -0.0313 -0.0182 -0.0041 -0.0655 -0.0112 0.0040 0.0018 -0.0310 -0.0007 0.0404 0.0237  
  
 Columns 8,791 through 8,805  
  
 -0.0316 -0.0271 -0.0091 -0.0004 0.0175 -0.0250 -0.0257 0.0327 -0.0315 -0.0004 -0.0064 -0.0110 -0.0213 0.0171 0.0139  
 -0.0242 0.0039 0.0053 0.0129 0.0100 -0.0069 -0.0418 0.0297 -0.0073 0.0082 0.0234 -0.0058 0.0074 -0.0109 0.0338  
 -0.0015 0.0153 0.0089 0.0133 0.0042 0.0128 -0.0308 0.0029 0.0209 0.0089 0.0381 0.0045 0.0328 -0.0301 0.0300  
  
 Columns 8,806 through 8,820  
  
 0.0025 -0.0585 -0.0475 0.0043 0.0095 0.0457 -0.0019 0.0358 0.0007 -0.0317 0.0018 -0.0116 -0.0236 0.0234 0.0379  
 -0.0222 -0.0024 0.0205 0.0269 0.0242 0.0468 -0.0055 0.0138 0.0014 0.0183 -0.0073 -0.0050 -0.0088 -0.0000 -0.0376  
 -0.0284 0.0273 0.0673 0.0196 0.0331 0.0185 -0.0080 -0.0049 0.0107 0.0590 -0.0080 0.0028 0.0112 -0.0191 -0.0700  
  
 Columns 8,821 through 8,835  
  
 0.0046 0.0230 -0.0363 -0.0405 0.0084 -0.0340 0.0336 -0.0160 0.0046 0.0175 0.0025 0.0266 0.0057 -0.0135 0.0029  
 -0.0009 -0.0289 -0.0026 0.0034 -0.0193 0.0060 0.0158 -0.0079 0.0413 0.0326 -0.0095 0.0200 0.0126 0.0307 -0.0187  
 -0.0016 -0.0464 0.0246 0.0323 -0.0330 0.0319 -0.0108 -0.0002 0.0425 0.0321 -0.0208 -0.0008 0.0064 0.0410 -0.0122  
  
 Columns 8,836 through 8,850  
  
 -0.0208 0.0119 0.0287 -0.0051 0.0009 -0.0145 0.0438 0.0127 -0.0057 -0.0105 0.0394 -0.0048 -0.0076 -0.0230 -0.0209  
 0.0149 0.0033 -0.0083 -0.0351 -0.0260 0.0026 0.0228 0.0160 -0.0102 -0.0267 0.0331 0.0337 0.0347 -0.0272 -0.0324  
 0.0358 -0.0095 -0.0270 -0.0316 -0.0350 0.0217 -0.0064 0.0055 -0.0084 -0.0381 0.0133 0.0553 0.0527 0.0070 -0.0195  
  
 Columns 8,851 through 8,865  
  
 0.0136 0.0056 0.0045 -0.0271 0.0109 0.0365 0.0363 -0.0057 0.0096 -0.0102 -0.0099 0.0412 -0.0090 0.0198 0.0107  
 0.0082 0.0213 -0.0064 -0.0092 -0.0022 0.0013 0.0068 0.0227 -0.0217 0.0495 -0.0288 0.0330 0.0396 -0.0088 0.0127  
 -0.0030 0.0157 0.0009 0.0146 -0.0060 -0.0326 -0.0135 0.0357 -0.0216 0.0683 -0.0202 0.0045 0.0649 -0.0340 0.0110  
  
 Columns 8,866 through 8,880  
  
 -0.0105 -0.0190 -0.0333 -0.0138 0.0350 0.0194 -0.0255 -0.0069 -0.0074 0.0003 -0.0083 0.0195 -0.0379 -0.0070 0.0146  
 -0.0170 0.0054 0.0022 0.0120 0.0325 -0.0017 0.0194 0.0053 0.0103 0.0009 0.0141 0.0138 0.0174 -0.0164 0.0382  
 -0.0143 0.0139 0.0314 0.0331 0.0126 -0.0210 0.0400 0.0180 0.0139 0.0001 0.0261 0.0044 0.0607 -0.0173 0.0376  
  
 Columns 8,881 through 8,895  
  
 0.0093 0.0029 -0.0070 0.0151 -0.0343 0.0121 0.0400 -0.0059 0.0325 0.0101 0.0296 0.0072 -0.0056 0.0028 -0.0119  
 -0.0050 0.0150 -0.0271 0.0247 0.0016 -0.0077 0.0042 -0.0040 0.0307 0.0129 0.0138 -0.0168 0.0078 -0.0050 -0.0253  
 -0.0125 0.0197 -0.0242 0.0065 0.0203 -0.0214 -0.0136 0.0055 0.0212 0.0070 -0.0156 -0.0297 0.0204 -0.0095 -0.0263  
  
 Columns 8,896 through 8,910  
  
 0.0245 0.0544 0.0189 0.0095 0.0165 -0.0467 0.0031 -0.0462 -0.0569 0.0041 0.0108 -0.0011 0.0066 0.0096 -0.0109  
 0.0213 0.0277 -0.0048 -0.0094 0.0070 -0.0393 -0.0211 -0.0215 -0.0343 0.0012 0.0092 0.0365 -0.0184 0.0429 0.0062  
 0.0011 -0.0063 -0.0216 -0.0202 -0.0018 -0.0179 -0.0272 0.0047 -0.0037 0.0042 -0.0015 0.0387 -0.0269 0.0384 0.0205  
  
 Columns 8,911 through 8,925  
  
 -0.0063 0.0295 0.0211 -0.0173 0.0171 0.0121 -0.0262 -0.0044 -0.0197 0.0039 -0.0311 0.0122 0.0170 0.0221 0.0123  
 -0.0042 0.0166 0.0064 -0.0029 0.0096 -0.0281 -0.0474 0.0174 -0.0167 0.0064 0.0140 0.0238 0.0324 0.0204 0.0099  
 0.0115 -0.0093 -0.0162 0.0225 -0.0004 -0.0393 -0.0167 0.0332 0.0083 -0.0040 0.0469 0.0148 0.0348 0.0032 0.0131  
  
 Columns 8,926 through 8,940  
  
 -0.0104 -0.0133 0.0208 0.0312 0.0177 0.0111 0.0298 0.0241 0.0253 0.0249 0.0429 0.0377 -0.0193 0.0181 -0.0034  
 0.0291 0.0015 0.0057 0.0346 -0.0221 0.0572 -0.0121 0.0417 0.0199 -0.0067 -0.0389 -0.0137 -0.0075 0.0043 0.0003  
 0.0232 0.0109 -0.0175 0.0114 -0.0408 0.0419 -0.0293 0.0305 -0.0125 -0.0247 -0.0809 -0.0466 0.0011 -0.0189 -0.0025  
  
 Columns 8,941 through 8,955  
  
 0.0049 -0.0067 0.0511 0.0111 -0.0300 0.0006 -0.0177 0.0136 -0.0505 -0.0174 -0.0005 -0.0277 -0.0084 0.0130 0.0116  
 -0.0195 0.0084 0.0400 0.0201 -0.0030 0.0193 0.0152 -0.0011 0.0347 -0.0356 0.0059 -0.0092 -0.0505 0.0425 0.0294  
 -0.0344 0.0246 -0.0074 0.0204 0.0282 0.0375 0.0287 -0.0093 0.1030 -0.0375 0.0267 0.0254 -0.0558 0.0430 0.0221  
  
 Columns 8,956 through 8,970  
  
 0.0177 -0.0124 0.0129 0.0286 0.0062 -0.0329 0.0262 -0.0024 0.0037 0.0413 0.0084 0.0113 0.0396 0.0476 0.0021  
 -0.0166 0.0130 0.0386 -0.0269 -0.0145 -0.0191 0.0420 0.0122 -0.0030 0.0224 -0.0245 -0.0141 0.0094 0.0167 0.0236  
 -0.0370 0.0277 0.0370 -0.0651 -0.0154 0.0032 0.0380 0.0210 -0.0064 -0.0187 -0.0351 -0.0182 -0.0211 -0.0217 0.0388  
  
 Columns 8,971 through 8,985  
  
 -0.0202 0.0130 0.0355 -0.0343 -0.0126 0.0083 -0.0072 0.0056 -0.0022 -0.0264 -0.0334 0.0059 -0.0310 -0.0283 0.0299  
 -0.0315 -0.0111 -0.0040 -0.0087 0.0098 0.0007 -0.0237 0.0266 0.0138 -0.0272 -0.0025 0.0160 -0.0222 0.0251 -0.0012  
 -0.0236 -0.0268 -0.0383 0.0130 0.0292 -0.0114 -0.0252 0.0363 0.0085 -0.0240 0.0353 0.0160 0.0033 0.0434 -0.0163  
  
 Columns 8,986 through 9,000  
  
 -0.0447 -0.0015 -0.0336 0.0022 0.0017 -0.0211 -0.0126 0.0037 -0.0254 -0.0009 -0.0169 0.0067 0.0251 0.0004 -0.0292  
 -0.0187 -0.0297 -0.0338 -0.0015 0.0151 -0.0066 -0.0030 -0.0027 0.0159 -0.0287 0.0094 0.0083 -0.0419 0.0081 -0.0070  
 0.0068 -0.0421 -0.0249 -0.0021 0.0080 0.0161 0.0072 -0.0059 0.0330 -0.0158 0.0243 0.0084 -0.0793 0.0151 0.0167

Columns 9,001 through 9,015  
  
 0.0284 0.0023 -0.0136 -0.0207 -0.0136 0.0115 -0.0277 0.0344 0.0172 -0.0545 -0.0020 -0.0175 0.0159 0.0141 -0.0483  
 0.0188 0.0021 -0.0152 0.0038 0.0280 0.0171 0.0006 -0.0066 0.0265 -0.0120 0.0262 0.0210 0.0125 0.0189 -0.0245  
 0.0097 -0.0106 -0.0172 0.0144 0.0348 0.0087 0.0313 -0.0333 -0.0016 0.0381 0.0331 0.0422 -0.0046 0.0159 0.0108  
  
 Columns 9,016 through 9,030  
  
 -0.0136 0.0210 -0.0165 0.0321 -0.0123 0.0143 0.0194 0.0250 0.0012 0.0176 0.0764 0.0035 0.0069 0.0266 0.0024  
 0.0004 0.0081 -0.0149 -0.0134 -0.0033 -0.0212 -0.0094 0.0402 0.0352 0.0028 0.0487 -0.0040 -0.0280 0.0107 -0.0276  
 -0.0012 -0.0024 -0.0136 -0.0582 0.0148 -0.0327 -0.0297 0.0303 0.0287 -0.0113 0.0082 -0.0203 -0.0295 -0.0090 -0.0393  
  
 Columns 9,031 through 9,045  
  
 0.0107 -0.0100 0.0031 0.0161 0.0142 0.0419 -0.0238 0.0107 -0.0200 -0.0001 -0.0141 -0.0138 0.0109 -0.0061 -0.0156  
 -0.0285 -0.0212 0.0386 0.0055 -0.0314 0.0315 -0.0060 -0.0052 0.0035 0.0051 -0.0211 -0.0266 0.0022 -0.0242 -0.0203  
 -0.0354 -0.0181 0.0401 -0.0068 -0.0553 0.0067 0.0019 -0.0148 0.0158 0.0160 -0.0022 -0.0140 -0.0037 -0.0229 -0.0144  
  
 Columns 9,046 through 9,060  
  
 0.0077 0.0152 0.0099 -0.0332 -0.0052 0.0376 -0.0099 -0.0067 -0.0299 -0.0179 0.0004 0.0282 -0.0238 0.0275 -0.0245  
 0.0070 -0.0022 -0.0313 0.0096 -0.0158 0.0272 0.0101 -0.0411 0.0153 -0.0028 0.0366 0.0190 -0.0187 -0.0298 -0.0203  
 0.0053 -0.0225 -0.0408 0.0460 -0.0245 0.0037 0.0127 -0.0489 0.0475 0.0091 0.0465 0.0059 0.0013 -0.0458 0.0044  
  
 Columns 9,061 through 9,075  
  
 0.0309 -0.0328 -0.0007 0.0226 -0.0019 -0.0149 -0.0058 -0.0346 0.0109 -0.0050 -0.0304 0.0160 0.0270 0.0019 0.0040  
 -0.0379 0.0004 -0.0422 -0.0094 -0.0019 0.0299 -0.0175 -0.0343 -0.0377 -0.0179 -0.0081 0.0178 0.0225 0.0278 0.0150  
 -0.0823 0.0304 -0.0564 -0.0131 -0.0048 0.0362 -0.0116 -0.0017 -0.0394 -0.0128 0.0032 0.0231 0.0175 0.0399 -0.0036  
  
 Columns 9,076 through 9,090  
  
 -0.0008 -0.0074 -0.0177 -0.0233 0.0058 0.0209 0.0032 0.0121 0.0380 -0.0061 -0.0139 0.0287 0.0553 0.0081 -0.0217  
 -0.0475 -0.0059 -0.0318 -0.0241 -0.0565 -0.0221 0.0282 0.0218 0.0106 0.0077 -0.0433 -0.0056 0.0057 0.0126 0.0411  
 -0.0553 0.0043 -0.0312 -0.0112 -0.0667 -0.0386 0.0288 0.0177 -0.0186 0.0072 -0.0448 -0.0368 -0.0363 0.0020 0.0740  
  
 Columns 9,091 through 9,105  
  
 -0.0210 -0.0293 0.0273 0.0106 0.0284 -0.0211 0.0206 -0.0129 0.0011 0.0394 -0.0303 0.0095 0.0189 -0.0039 0.0202  
 -0.0302 0.0330 0.0086 0.0381 0.0257 -0.0056 0.0347 -0.0384 0.0153 0.0502 -0.0373 -0.0106 -0.0156 0.0017 0.0275  
 -0.0217 0.0733 -0.0113 0.0397 0.0030 0.0287 0.0102 -0.0348 0.0251 0.0289 -0.0139 -0.0240 -0.0423 0.0042 0.0230  
  
 Columns 9,106 through 9,120  
  
 -0.0151 0.0098 -0.0285 -0.0091 -0.0149 0.0269 -0.0232 0.0021 -0.0305 0.0247 0.0053 0.0580 0.0215 -0.0093 -0.0070  
 -0.0200 0.0092 0.0375 0.0239 0.0323 0.0083 -0.0136 -0.0013 0.0079 0.0237 0.0228 -0.0039 -0.0173 -0.0211 -0.0128  
 -0.0191 -0.0002 0.0596 0.0254 0.0446 -0.0213 0.0099 -0.0123 0.0326 0.0019 0.0250 -0.0537 -0.0300 -0.0054 -0.0075  
  
 Columns 9,121 through 9,135  
  
 -0.0367 0.0021 0.0269 -0.0117 -0.0036 -0.0361 -0.0033 -0.0014 0.0036 0.0109 -0.0139 -0.0157 -0.0147 -0.0005 0.0295  
 -0.0031 0.0431 -0.0001 0.0156 -0.0293 0.0273 0.0090 0.0436 0.0263 -0.0111 -0.0191 -0.0464 0.0018 -0.0082 -0.0071  
 0.0202 0.0528 -0.0251 0.0243 -0.0301 0.0636 0.0197 0.0635 0.0362 -0.0201 -0.0047 -0.0304 0.0206 -0.0128 -0.0358  
  
 Columns 9,136 through 9,150  
  
 -0.0184 0.0049 -0.0310 0.0177 -0.0215 -0.0378 0.0314 -0.0114 -0.0176 -0.0005 0.0140 0.0201 -0.0133 -0.0076 0.0356  
 0.0129 -0.0059 0.0076 0.0231 0.0122 -0.0196 0.0229 -0.0086 -0.0270 0.0261 0.0448 -0.0231 0.0117 0.0248 -0.0394  
 0.0258 -0.0164 0.0323 0.0131 0.0404 0.0165 0.0027 0.0028 -0.0070 0.0329 0.0262 -0.0500 0.0365 0.0323 -0.0712  
  
 Columns 9,151 through 9,165  
  
 0.0319 -0.0272 0.0061 -0.0175 -0.0242 0.0025 -0.0130 -0.0206 0.0418 -0.0176 -0.0188 -0.0177 0.0030 -0.0078 0.0204  
 -0.0297 -0.0116 0.0148 0.0706 0.0605 0.0072 0.0228 -0.0162 -0.0253 -0.0131 0.0012 0.0033 0.0277 0.0134 0.0264  
 -0.0524 0.0091 0.0023 0.0902 0.0803 -0.0086 0.0457 -0.0001 -0.0564 -0.0065 0.0177 0.0223 0.0188 0.0323 0.0001  
  
 Columns 9,166 through 9,180  
  
 -0.0016 0.0074 -0.0202 -0.0001 -0.0257 -0.0154 0.0069 0.0203 -0.0262 -0.0185 0.0144 0.0212 -0.0042 0.0097 0.0187  
 -0.0063 0.0264 -0.0518 0.0071 0.0066 -0.0134 0.0023 0.0174 0.0112 0.0066 0.0284 -0.0034 0.0115 -0.0006 0.0165  
 -0.0266 0.0292 -0.0550 -0.0019 0.0255 0.0027 -0.0100 0.0054 0.0375 0.0171 0.0188 -0.0296 0.0162 -0.0112 -0.0057  
  
 Columns 9,181 through 9,195  
  
 0.0249 -0.0087 -0.0031 0.0136 0.0067 -0.0029 0.0108 -0.0136 0.0242 -0.0240 -0.0124 0.0014 -0.0434 0.0317 -0.0142  
 0.0107 0.0125 -0.0255 0.0187 0.0061 0.0044 0.0021 -0.0144 0.0233 0.0205 0.0166 -0.0076 0.0129 0.0020 0.0009  
 0.0086 0.0125 -0.0234 0.0058 0.0082 0.0054 0.0003 -0.0126 0.0161 0.0475 0.0276 -0.0237 0.0438 -0.0353 -0.0087  
  
 Columns 9,196 through 9,210  
  
 -0.0169 -0.0461 0.0240 -0.0236 -0.0373 -0.0169 0.0006 -0.0157 -0.0304 -0.0381 -0.0295 -0.0015 -0.0362 -0.0171 -0.0167  
 0.0378 -0.0345 -0.0109 0.0437 -0.0091 0.0117 0.0287 -0.0276 -0.0136 -0.0083 -0.0193 0.0129 0.0054 -0.0326 -0.0199  
 0.0540 0.0009 -0.0230 0.0858 0.0222 0.0307 0.0251 -0.0266 0.0229 0.0198 -0.0129 0.0167 0.0369 -0.0193 -0.0190  
  
 Columns 9,211 through 9,225  
  
 -0.0014 -0.0149 0.0065 0.0014 0.0216 0.0087 -0.0137 -0.0050 0.0225 0.0127 -0.0115 -0.0061 -0.0330 -0.0102 -0.0024  
 -0.0026 -0.0513 -0.0319 0.0085 -0.0163 0.0207 -0.0529 0.0106 0.0158 0.0210 -0.0007 -0.0198 0.0124 0.0103 -0.0013  
 0.0012 -0.0404 -0.0438 -0.0000 -0.0319 0.0278 -0.0565 0.0202 -0.0087 0.0063 0.0188 -0.0137 0.0419 0.0316 -0.0015  
  
 Columns 9,226 through 9,240  
  
 -0.0131 0.0227 -0.0018 0.0151 -0.0026 -0.0027 -0.0001 -0.0092 0.0063 -0.0125 0.0310 -0.0028 0.0002 -0.0194 -0.0114  
 0.0224 0.0582 -0.0256 -0.0141 0.0119 0.0254 0.0227 -0.0006 0.0019 0.0244 0.0173 -0.0083 0.0234 -0.0039 0.0415  
 0.0330 0.0567 -0.0317 -0.0334 0.0247 0.0398 0.0183 -0.0034 0.0062 0.0411 -0.0083 -0.0106 0.0345 0.0075 0.0575  
  
 Columns 9,241 through 9,255  
  
 -0.0081 -0.0016 0.0246 -0.0194 0.0006 -0.0138 -0.0148 0.0034 0.0041 -0.0098 -0.0065 0.0433 -0.0086 0.0216 -0.0073  
 -0.0071 0.0180 0.0371 -0.0033 0.0276 0.0235 0.0465 -0.0203 -0.0185 -0.0017 -0.0416 -0.0232 -0.0277 0.0017 -0.0223  
 -0.0010 0.0119 0.0256 0.0236 0.0409 0.0425 0.0747 -0.0177 -0.0247 0.0032 -0.0289 -0.0589 -0.0102 -0.0323 -0.0245  
  
 Columns 9,256 through 9,270  
  
 0.0208 0.0430 0.0128 -0.0078 -0.0031 0.0319 0.0335 -0.0257 -0.0061 0.0100 -0.0019 -0.0046 0.0072 -0.0101 0.0242  
 0.0769 0.0202 0.0201 -0.0010 0.0074 0.0290 0.0310 0.0313 0.0234 0.0195 -0.0088 -0.0177 -0.0049 0.0006 -0.0011  
 0.0723 -0.0191 0.0109 0.0091 0.0243 0.0095 0.0046 0.0587 0.0251 0.0069 -0.0151 -0.0302 0.0008 0.0141 -0.0344  
  
 Columns 9,271 through 9,285  
  
 0.0378 0.0191 0.0095 0.0041 0.0093 0.0130 0.0343 -0.0197 -0.0208 0.0112 -0.0134 -0.0136 0.0325 0.0068 0.0068  
 -0.0299 0.0099 -0.0067 0.0343 -0.0018 0.0007 -0.0133 -0.0136 -0.0245 0.0107 -0.0121 -0.0367 -0.0143 -0.0097 0.0066  
 -0.0695 0.0090 -0.0146 0.0626 -0.0063 -0.0050 -0.0344 0.0159 -0.0021 0.0040 -0.0196 -0.0219 -0.0384 -0.0187 -0.0045  
  
 Columns 9,286 through 9,300  
  
 -0.0147 -0.0442 0.0236 0.0477 -0.0322 -0.0003 -0.0330 0.0153 0.0183 -0.0129 0.0129 -0.0246 -0.0174 0.0160 0.0296  
 -0.0128 0.0239 -0.0294 0.0040 -0.0265 0.0004 -0.0368 0.0088 -0.0308 -0.0080 -0.0398 -0.0117 -0.0079 0.0148 0.0227  
 -0.0152 0.0747 -0.0549 -0.0264 0.0064 -0.0007 -0.0242 -0.0131 -0.0457 -0.0046 -0.0488 0.0196 0.0031 0.0056 0.0092  
  
 Columns 9,301 through 9,315  
  
 0.0123 -0.0172 -0.0208 -0.0090 0.0152 0.0019 -0.0260 0.0364 -0.0249 0.0259 -0.0092 0.0011 -0.0456 0.0110 -0.0315  
 -0.0312 0.0067 0.0075 -0.0090 0.0127 -0.0170 -0.0203 0.0102 -0.0024 0.0146 0.0138 0.0065 -0.0162 0.0209 -0.0055  
 -0.0390 0.0210 0.0196 0.0072 -0.0103 -0.0246 0.0025 -0.0197 0.0068 -0.0061 0.0309 -0.0000 0.0194 0.0170 0.0080  
  
 Columns 9,316 through 9,330  
  
 0.0162 0.0150 -0.0109 0.0538 0.0106 0.0166 0.0117 -0.0064 -0.0216 0.0386 -0.0058 0.0048 0.0111 -0.0063 0.0096  
 -0.0381 -0.0048 0.0153 -0.0052 -0.0015 -0.0032 0.0214 -0.0278 0.0316 0.0305 -0.0021 -0.0197 -0.0209 0.0188 0.0334  
 -0.0608 -0.0129 0.0223 -0.0568 -0.0011 -0.0179 0.0124 -0.0237 0.0689 0.0063 -0.0087 -0.0311 -0.0300 0.0254 0.0489  
  
 Columns 9,331 through 9,345  
  
 0.0054 0.0120 -0.0015 -0.0057 0.0045 0.0025 -0.0261 -0.0212 0.0393 -0.0222 0.0115 -0.0179 0.0274 -0.0052 0.0189  
 0.0095 -0.0046 -0.0082 0.0178 0.0265 0.0229 -0.0050 0.0127 0.0470 -0.0000 0.0210 -0.0281 0.0382 -0.0101 -0.0139  
 0.0112 -0.0247 -0.0231 0.0340 0.0242 0.0300 0.0144 0.0268 0.0163 0.0171 0.0104 -0.0162 0.0257 -0.0036 -0.0399  
  
 Columns 9,346 through 9,360  
  
 -0.0297 0.0182 0.0364 0.0301 0.0052 -0.0215 0.0218 -0.0030 0.0113 -0.0030 -0.0042 -0.0425 -0.0088 0.0338 0.0364  
 0.0153 -0.0197 -0.0374 -0.0314 -0.0238 0.0070 0.0117 -0.0044 -0.0302 0.0278 0.0010 -0.0134 -0.0153 -0.0301 0.0028  
 0.0465 -0.0493 -0.0671 -0.0527 -0.0248 0.0245 0.0117 0.0009 -0.0501 0.0207 0.0111 0.0320 -0.0269 -0.0621 -0.0202  
  
 Columns 9,361 through 9,375  
  
 0.0029 -0.0000 -0.0168 -0.0205 -0.0003 -0.0035 -0.0052 -0.0142 -0.0382 0.0142 0.0264 -0.0227 -0.0071 0.0061 -0.0167  
 0.0149 0.0635 0.0158 0.0082 0.0217 0.0423 -0.0014 0.0010 -0.0529 0.0047 -0.0125 -0.0254 -0.0117 -0.0254 0.0322  
 0.0249 0.0847 0.0423 0.0306 0.0278 0.0670 0.0131 0.0090 -0.0334 -0.0144 -0.0284 -0.0249 -0.0205 -0.0398 0.0553  
  
 Columns 9,376 through 9,390  
  
 0.0188 -0.0046 0.0391 -0.0324 0.0295 0.0559 0.0223 0.0115 -0.0142 -0.0043 0.0211 -0.0067 0.0131 0.0181 -0.0310  
 0.0002 -0.0027 0.0175 0.0113 0.0216 -0.0110 0.0309 -0.0091 -0.0343 -0.0161 0.0416 0.0387 0.0123 0.0185 -0.0502  
 -0.0080 0.0121 -0.0178 0.0284 0.0100 -0.0566 0.0184 -0.0145 -0.0135 -0.0078 0.0309 0.0424 0.0072 0.0171 -0.0334  
  
 Columns 9,391 through 9,405  
  
 -0.0184 0.0271 -0.0377 -0.0242 -0.0007 0.0176 0.0059 0.0224 0.0445 0.0086 -0.0036 -0.0031 -0.0340 -0.0353 -0.0417  
 -0.0408 0.0109 -0.0170 -0.0198 -0.0135 -0.0100 -0.0008 0.0045 0.0187 0.0060 0.0133 -0.0009 0.0176 -0.0174 0.0044  
 -0.0268 -0.0205 0.0088 0.0003 -0.0156 -0.0281 -0.0051 0.0088 -0.0113 -0.0023 0.0134 0.0115 0.0370 0.0071 0.0396  
  
 Columns 9,406 through 9,420  
  
 0.0224 0.0224 -0.0253 0.0249 0.0087 -0.0333 0.0188 -0.0031 -0.0079 0.0330 -0.0238 0.0397 0.0034 -0.0019 0.0009  
 -0.0044 0.0358 -0.0080 0.0138 -0.0151 0.0074 0.0089 0.0088 0.0069 -0.0008 -0.0108 -0.0047 -0.0479 -0.0080 0.0008  
 -0.0220 0.0147 0.0190 -0.0160 -0.0316 0.0289 -0.0231 0.0239 0.0285 -0.0232 0.0061 -0.0404 -0.0612 -0.0085 -0.0053  
  
 Columns 9,421 through 9,435  
  
 -0.0091 -0.0167 -0.0212 0.0231 0.0016 -0.0139 -0.0253 -0.0230 0.0160 -0.0245 -0.0491 0.0254 -0.0024 -0.0214 -0.0060  
 -0.0173 -0.0265 -0.0160 -0.0015 -0.0249 -0.0106 0.0151 -0.0291 0.0267 -0.0190 0.0332 0.0006 0.0261 0.0196 0.0025  
 -0.0103 -0.0233 0.0015 -0.0252 -0.0349 0.0180 0.0244 -0.0239 0.0265 0.0102 0.0755 -0.0244 0.0310 0.0450 0.0111  
  
 Columns 9,436 through 9,450  
  
 0.0546 0.0199 -0.0003 -0.0023 -0.0227 -0.0381 -0.0091 -0.0013 -0.0145 0.0197 0.0219 -0.0149 0.0021 0.0162 -0.0135  
 0.0069 -0.0083 -0.0073 0.0099 -0.0079 -0.0085 -0.0036 0.0328 -0.0095 -0.0119 0.0021 -0.0175 0.0269 0.0140 -0.0193  
 -0.0471 -0.0239 -0.0165 0.0047 0.0177 0.0325 0.0060 0.0515 0.0155 -0.0222 -0.0118 -0.0147 0.0378 -0.0101 -0.0035  
  
 Columns 9,451 through 9,465  
  
 0.0035 -0.0027 -0.0314 0.0026 0.0149 0.0161 0.0208 -0.0088 0.0323 0.0042 0.0634 -0.0214 0.0164 -0.0045 0.0261  
 -0.0393 -0.0465 -0.0349 -0.0213 0.0064 0.0012 0.0462 0.0263 -0.0040 -0.0305 0.0273 0.0051 -0.0029 -0.0286 -0.0141  
 -0.0436 -0.0585 -0.0142 -0.0190 -0.0003 -0.0053 0.0392 0.0466 -0.0399 -0.0402 -0.0120 0.0246 -0.0313 -0.0453 -0.0341  
  
 Columns 9,466 through 9,480  
  
 -0.0099 0.0081 0.0044 0.0051 -0.0181 0.0384 0.0285 -0.0041 0.0420 -0.0013 0.0102 -0.0404 -0.0234 0.0043 0.0111  
 0.0430 -0.0043 0.0004 0.0072 -0.0007 -0.0054 0.0481 -0.0484 0.0187 0.0295 -0.0021 -0.0074 -0.0130 0.0538 0.0508  
 0.0641 -0.0056 -0.0043 -0.0047 0.0162 -0.0337 0.0347 -0.0362 -0.0142 0.0298 -0.0117 0.0278 0.0099 0.0541 0.0577  
  
 Columns 9,481 through 9,495  
  
 0.0115 -0.0479 -0.0023 0.0485 0.0250 0.0172 0.0405 -0.0044 -0.0453 0.0127 0.0157 0.0157 -0.0001 -0.0050 0.0485  
 0.0056 0.0106 -0.0227 0.0390 -0.0194 -0.0095 -0.0005 -0.0208 -0.0419 0.0166 -0.0118 -0.0090 0.0014 -0.0097 -0.0102  
 0.0003 0.0742 -0.0267 -0.0017 -0.0314 -0.0186 -0.0327 -0.0151 -0.0139 0.0062 -0.0380 -0.0239 0.0080 -0.0123 -0.0497  
  
 Columns 9,496 through 9,510

-0.0058 -0.0213 0.0445 -0.0099 -0.0349 -0.0160 0.0099 -0.0217 0.0270 0.0529 -0.0221 -0.0032 -0.0159 0.0071 -0.0332  
 0.0012 -0.0269 0.0244 0.0034 -0.0267 0.0021 -0.0158 -0.0157 -0.0120 0.0172 -0.0007 -0.0420 -0.0219 -0.0208 -0.0050  
 0.0126 -0.0152 -0.0121 0.0067 -0.0114 0.0135 -0.0243 0.0026 -0.0385 -0.0226 0.0197 -0.0398 -0.0082 -0.0389 0.0275  
  
 Columns 9,511 through 9,525  
  
 0.0201 -0.0168 0.0152 0.0157 0.0251 0.0050 -0.0032 -0.0243 -0.0238 -0.0110 -0.0093 0.0062 0.0024 0.0042 -0.0124  
 -0.0022 0.0098 0.0187 0.0160 0.0146 0.0212 0.0297 0.0074 0.0367 -0.0040 0.0096 -0.0082 -0.0225 -0.0172 -0.0169  
 -0.0141 0.0232 -0.0040 -0.0041 -0.0037 0.0155 0.0388 0.0280 0.0568 0.0081 0.0214 -0.0134 -0.0346 -0.0188 -0.0061  
  
 Columns 9,526 through 9,540  
  
 0.0038 -0.0216 -0.0458 -0.0245 -0.0002 0.0236 0.0497 0.0161 0.0359 0.0008 -0.0343 0.0051 0.0118 0.0058 0.0089  
 -0.0342 0.0060 -0.0283 0.0228 0.0210 -0.0331 0.0242 -0.0110 -0.0235 0.0271 0.0234 0.0169 0.0117 -0.0307 -0.0052  
 -0.0462 0.0398 0.0034 0.0385 0.0315 -0.0507 -0.0250 -0.0273 -0.0509 0.0426 0.0562 0.0228 0.0034 -0.0511 -0.0162  
  
 Columns 9,541 through 9,555  
  
 -0.0176 -0.0071 -0.0390 0.0181 0.0660 -0.0107 0.0246 -0.0239 0.0042 -0.0297 0.0301 -0.0166 -0.0012 0.0376 -0.0089  
 -0.0055 -0.0124 0.0138 -0.0151 0.0051 -0.0168 0.0123 0.0123 0.0432 0.0433 -0.0273 -0.0223 0.0521 0.0189 0.0013  
 0.0087 -0.0130 0.0517 -0.0326 -0.0493 -0.0140 -0.0085 0.0229 0.0462 0.0741 -0.0644 -0.0131 0.0661 -0.0073 0.0227  
  
 Columns 9,556 through 9,570  
  
 -0.0495 0.0027 -0.0220 0.0018 0.0385 0.0094 0.0104 0.0049 -0.0205 -0.0185 0.0404 -0.0378 -0.0122 -0.0207 -0.0362  
 0.0236 -0.0248 -0.0104 -0.0133 0.0306 0.0605 0.0151 0.0284 0.0209 0.0115 -0.0033 0.0134 0.0084 -0.0482 -0.0281  
 0.0684 -0.0207 0.0106 -0.0094 -0.0000 0.0721 0.0048 0.0215 0.0307 0.0274 -0.0367 0.0462 0.0224 -0.0530 -0.0086  
  
 Columns 9,571 through 9,585  
  
 0.0237 0.0128 -0.0243 0.0109 -0.0176 0.0015 0.0013 0.0109 0.0236 -0.0175 -0.0203 0.0042 -0.0036 0.0396 0.0411  
 0.0346 -0.0095 -0.0000 -0.0118 -0.0113 -0.0362 -0.0183 0.0095 0.0018 0.0436 0.0004 -0.0141 -0.0010 -0.0398 0.0043  
 0.0151 -0.0084 0.0177 -0.0191 -0.0163 -0.0539 -0.0125 0.0036 -0.0021 0.0782 0.0106 -0.0254 0.0086 -0.0788 -0.0322  
  
 Columns 9,586 through 9,600  
  
 0.0166 0.0217 0.0136 -0.0114 0.0016 0.0263 0.0025 -0.0293 0.0241 0.0638 0.0314 0.0318 -0.0150 0.0147 0.0026  
 0.0483 0.0078 -0.0162 0.0124 0.0230 -0.0374 0.0064 0.0371 0.0133 0.0014 -0.0333 0.0082 -0.0215 -0.0047 -0.0012  
 0.0358 -0.0124 -0.0253 0.0295 0.0297 -0.0745 -0.0004 0.0745 -0.0020 -0.0549 -0.0775 -0.0167 -0.0075 -0.0174 0.0035  
  
 Columns 9,601 through 9,615  
  
 0.0082 0.0033 -0.0159 0.0158 0.0178 0.0047 -0.0123 -0.0415 0.0163 0.0044 0.0133 -0.0028 0.0559 0.0271 0.0262  
 0.0034 0.0032 0.0053 -0.0124 -0.0444 0.0186 -0.0138 -0.0242 -0.0211 0.0338 -0.0195 -0.0083 0.0045 -0.0030 0.0075  
 -0.0005 -0.0063 0.0349 -0.0419 -0.0719 0.0123 0.0048 -0.0012 -0.0620 0.0451 -0.0361 -0.0144 -0.0351 -0.0110 -0.0105  
  
 Columns 9,616 through 9,630  
  
 0.0241 -0.0241 -0.0175 -0.0139 0.0245 0.0238 -0.0042 0.0443 0.0023 0.0072 -0.0102 0.0216 -0.0044 0.0347 -0.0060  
 0.0049 0.0042 -0.0151 -0.0136 0.0067 0.0128 -0.0038 0.0450 -0.0203 -0.0355 0.0302 -0.0216 -0.0120 -0.0217 -0.0284  
 -0.0108 0.0333 0.0082 -0.0029 -0.0179 -0.0123 0.0021 0.0053 -0.0223 -0.0510 0.0376 -0.0460 -0.0158 -0.0580 -0.0270  
  
 Columns 9,631 through 9,645  
  
 -0.0051 0.0493 0.0050 -0.0206 0.0212 -0.0170 0.0181 0.0456 -0.0035 0.0401 0.0194 0.0187 -0.0236 0.0258 0.0141  
 -0.0255 0.0108 -0.0081 -0.0010 -0.0054 0.0249 -0.0125 -0.0240 -0.0053 0.0470 0.0002 0.0128 -0.0121 -0.0149 -0.0138  
 -0.0303 -0.0244 -0.0122 0.0009 -0.0236 0.0412 -0.0265 -0.0621 -0.0130 0.0272 -0.0144 -0.0180 0.0042 -0.0428 -0.0166  
  
 Columns 9,646 through 9,660  
  
 0.0204 -0.0086 0.0243 -0.0184 -0.0149 -0.0207 0.0104 0.0044 -0.0090 -0.0389 -0.0107 0.0442 -0.0153 -0.0205 0.0430  
 0.0361 -0.0241 -0.0023 -0.0262 -0.0124 -0.0314 0.0044 0.0181 -0.0284 0.0059 0.0022 -0.0004 -0.0060 -0.0315 0.0273  
 0.0301 -0.0135 -0.0223 -0.0182 0.0058 -0.0364 -0.0044 0.0270 -0.0307 0.0439 0.0047 -0.0422 0.0079 -0.0181 0.0054  
  
 Columns 9,661 through 9,675  
  
 0.0084 -0.0362 0.0167 0.0026 -0.0132 0.0381 -0.0217 -0.0043 -0.0425 -0.0353 0.0236 0.0014 0.0123 -0.0285 0.0399  
 0.0283 -0.0048 -0.0057 0.0025 -0.0050 0.0261 -0.0146 -0.0053 0.0248 -0.0241 0.0239 0.0348 0.0290 -0.0104 0.0213  
 0.0150 0.0114 -0.0257 -0.0092 -0.0006 0.0024 -0.0099 -0.0065 0.0599 -0.0154 0.0113 0.0525 0.0189 0.0107 -0.0099  
  
 Columns 9,676 through 9,690  
  
 -0.0191 -0.0094 -0.0022 -0.0122 -0.0066 0.0144 0.0004 0.0284 -0.0139 0.0136 -0.0204 -0.0166 0.0344 0.0288 0.0207  
 0.0032 -0.0109 0.0079 -0.0085 -0.0069 0.0449 0.0448 0.0002 -0.0058 0.0214 0.0035 0.0260 0.0135 0.0351 -0.0168  
 0.0242 -0.0026 0.0201 -0.0170 0.0080 0.0433 0.0512 -0.0132 0.0093 0.0199 0.0193 0.0406 -0.0059 0.0092 -0.0374  
  
 Columns 9,691 through 9,705  
  
 0.0230 0.0219 0.0219 -0.0123 0.0019 -0.0514 0.0052 -0.0232 -0.0083 -0.0250 -0.0143 0.0278 0.0492 0.0033 0.0068  
 0.0058 0.0065 -0.0147 -0.0126 -0.0184 -0.0147 0.0228 0.0372 0.0208 -0.0099 -0.0416 0.0056 0.0193 0.0499 0.0049  
 -0.0132 -0.0156 -0.0317 -0.0141 -0.0334 0.0046 0.0293 0.0601 0.0297 0.0030 -0.0301 -0.0139 0.0050 0.0481 0.0014  
  
 Columns 9,706 through 9,720  
  
 -0.0127 -0.0001 0.0237 -0.0155 -0.0043 -0.0578 -0.0426 -0.0168 0.0008 0.0210 0.0374 -0.0313 -0.0200 -0.0371 -0.0214  
 0.0117 0.0019 0.0000 -0.0456 0.0433 -0.0004 -0.0306 -0.0095 0.0546 0.0192 0.0056 -0.0156 -0.0483 -0.0193 -0.0187  
 0.0285 -0.0040 -0.0214 -0.0386 0.0485 0.0497 -0.0025 0.0024 0.0762 0.0142 -0.0297 0.0070 -0.0457 0.0129 0.0017  
  
 Columns 9,721 through 9,735  
  
 -0.0223 0.0128 -0.0031 0.0136 0.0034 0.0050 -0.0217 -0.0447 0.0065 -0.0088 -0.0258 0.0228 -0.0212 0.0225 -0.0059  
 -0.0038 0.0090 0.0110 0.0204 0.0018 0.0084 -0.0327 -0.0172 -0.0023 -0.0002 0.0046 0.0153 -0.0363 -0.0163 0.0122  
 0.0133 0.0020 0.0287 0.0124 0.0072 0.0071 -0.0261 0.0301 -0.0052 -0.0082 0.0312 0.0017 -0.0370 -0.0412 0.0186  
  
 Columns 9,736 through 9,750  
  
 -0.0033 0.0076 0.0010 -0.0128 0.0104 0.0447 -0.0124 -0.0240 -0.0189 -0.0142 0.0164 0.0020 0.0212 -0.0342 0.0125  
 0.0161 -0.0078 -0.0294 0.0201 -0.0000 0.0066 -0.0160 -0.0100 0.0157 0.0138 -0.0275 0.0094 -0.0015 -0.0139 0.0270  
 0.0265 0.0037 -0.0295 0.0325 -0.0099 -0.0283 -0.0272 0.0062 0.0461 0.0323 -0.0388 0.0164 -0.0235 -0.0018 0.0353  
  
 Columns 9,751 through 9,765  
  
 0.0253 -0.0058 -0.0395 0.0426 0.0106 0.0343 0.0224 0.0342 0.0039 0.0196 0.0092 -0.0159 0.0028 -0.0126 0.0095  
 -0.0306 -0.0094 -0.0267 -0.0050 -0.0005 0.0219 0.0107 0.0063 -0.0174 0.0030 0.0349 -0.0460 0.0057 -0.0497 -0.0009  
 -0.0613 -0.0157 0.0063 -0.0453 -0.0137 -0.0098 -0.0105 -0.0271 -0.0100 -0.0159 0.0369 -0.0333 -0.0008 -0.0371 -0.0052  
  
 Columns 9,766 through 9,780  
  
 0.0090 -0.0011 -0.0248 0.0250 -0.0228 0.0096 0.0316 -0.0236 0.0425 0.0470 -0.0023 0.0165 0.0134 0.0156 -0.0168  
 0.0113 -0.0288 0.0103 0.0222 0.0298 -0.0057 -0.0203 -0.0124 -0.0047 -0.0496 0.0013 0.0256 0.0136 0.0106 -0.0100  
 0.0055 -0.0219 0.0301 0.0153 0.0630 -0.0308 -0.0631 -0.0079 -0.0515 -0.1081 -0.0019 0.0279 0.0051 0.0034 -0.0009  
  
 Columns 9,781 through 9,795  
  
 0.0182 0.0092 0.0017 0.0053 -0.0401 -0.0291 -0.0123 -0.0143 -0.0277 0.0521 0.0507 -0.0178 -0.0141 0.0399 -0.0218  
 -0.0458 0.0430 -0.0255 -0.0190 0.0121 -0.0026 -0.0288 0.0148 -0.0076 -0.0026 0.0353 -0.0001 -0.0289 -0.0166 -0.0144  
 -0.0554 0.0453 -0.0339 -0.0288 0.0475 0.0353 -0.0252 0.0308 0.0177 -0.0346 -0.0135 0.0238 -0.0280 -0.0457 -0.0005  
  
 Columns 9,796 through 9,810  
  
 -0.0133 -0.0527 0.0005 -0.0051 0.0130 0.0497 0.0147 -0.0077 0.0087 -0.0223 0.0185 -0.0368 -0.0255 0.0125 0.0548  
 0.0328 -0.0018 -0.0247 -0.0134 0.0075 0.0291 -0.0022 -0.0013 -0.0073 -0.0405 0.0064 -0.0266 -0.0123 -0.0452 0.0142  
 0.0476 0.0363 -0.0291 -0.0176 -0.0155 -0.0230 -0.0165 0.0216 -0.0291 -0.0358 -0.0235 0.0026 0.0135 -0.0626 -0.0071  
  
 Columns 9,811 through 9,825  
  
 -0.0202 -0.0172 -0.0242 0.0040 -0.0081 -0.0275 0.0021 -0.0172 0.0220 0.0273 0.0053 -0.0153 0.0333 0.0329 0.0006  
 0.0045 0.0285 0.0167 -0.0280 -0.0091 -0.0182 -0.0069 0.0267 0.0068 0.0019 0.0011 -0.0277 -0.0024 0.0260 -0.0387  
 0.0240 0.0500 0.0351 -0.0275 -0.0028 -0.0088 -0.0155 0.0661 -0.0120 -0.0130 0.0016 -0.0261 -0.0242 0.0002 -0.0535  
  
 Columns 9,826 through 9,840  
  
 -0.0014 -0.0061 0.0143 0.0143 0.0195 0.0287 -0.0398 -0.0152 -0.0119 -0.0135 -0.0286 0.0083 -0.0178 0.0143 0.0168  
 -0.0162 -0.0305 0.0011 -0.0220 -0.0245 -0.0189 -0.0087 0.0384 -0.0306 0.0351 0.0275 0.0301 0.0356 -0.0022 0.0283  
 -0.0236 -0.0310 -0.0251 -0.0362 -0.0341 -0.0404 0.0114 0.0488 -0.0376 0.0671 0.0508 0.0273 0.0563 -0.0067 0.0187  
  
 Columns 9,841 through 9,855  
  
 0.0073 -0.0277 -0.0295 -0.0398 0.0183 -0.0342 0.0090 0.0055 0.0020 0.0112 0.0086 0.0074 0.0119 -0.0126 -0.0270  
 -0.0147 -0.0307 -0.0056 -0.0110 0.0527 0.0112 0.0120 0.0297 -0.0091 -0.0241 0.0003 -0.0114 0.0112 -0.0122 0.0022  
 -0.0319 -0.0038 0.0256 0.0107 0.0499 0.0384 0.0099 0.0339 -0.0097 -0.0329 0.0060 -0.0061 -0.0092 -0.0091 0.0554  
  
 Columns 9,856 through 9,870  
  
 -0.0162 -0.0402 -0.0107 0.0066 0.0072 0.0246 0.0168 -0.0178 -0.0037 0.0226 -0.0660 -0.0346 0.0086 0.0068 -0.0094  
 -0.0104 -0.0278 -0.0112 0.0277 0.0332 -0.0191 -0.0064 0.0076 0.0101 0.0087 0.0106 -0.0279 0.0596 -0.0033 0.0122  
 -0.0004 0.0018 -0.0054 0.0199 0.0290 -0.0478 -0.0221 0.0245 0.0217 0.0051 0.0665 0.0076 0.0590 -0.0061 0.0257  
  
 Columns 9,871 through 9,885  
  
 0.0193 -0.0173 -0.0152 -0.0248 0.0218 0.0122 -0.0114 0.0280 0.0194 0.0079 -0.0033 -0.0065 0.0351 -0.0083 0.0427  
 -0.0057 -0.0160 0.0126 -0.0140 0.0024 0.0179 0.0094 0.0357 0.0084 -0.0007 0.0365 0.0262 -0.0242 -0.0111 -0.0229  
 -0.0165 0.0059 0.0174 -0.0040 -0.0217 0.0210 0.0160 0.0082 -0.0160 -0.0233 0.0513 0.0406 -0.0602 -0.0086 -0.0557  
  
 Columns 9,886 through 9,900  
  
 -0.0140 -0.0113 0.0454 -0.0344 0.0002 0.0342 -0.0379 -0.0337 -0.0101 0.0056 -0.0289 0.0018 0.0468 0.0140 0.0361  
 -0.0018 0.0352 0.0377 0.0110 -0.0201 -0.0050 0.0149 0.0023 0.0152 0.0282 -0.0139 0.0182 0.0201 0.0054 -0.0270  
 -0.0013 0.0433 -0.0021 0.0378 -0.0215 -0.0293 0.0640 0.0410 0.0230 0.0243 0.0061 0.0360 -0.0288 -0.0130 -0.0561  
  
 Columns 9,901 through 9,915  
  
 0.0090 -0.0150 0.0249 0.0218 -0.0075 0.0625 -0.0337 0.0213 -0.0108 0.0098 -0.0112 -0.0360 0.0376 -0.0297 0.0115  
 -0.0179 -0.0079 -0.0322 0.0092 0.0087 0.0300 0.0106 0.0025 -0.0284 0.0115 0.0247 -0.0353 0.0198 0.0208 -0.0102  
 -0.0284 0.0144 -0.0625 0.0002 0.0223 -0.0306 0.0406 -0.0399 -0.0308 0.0067 0.0274 -0.0215 -0.0115 0.0456 -0.0109  
  
 Columns 9,916 through 9,930  
  
 0.0049 0.0221 -0.0050 -0.0155 0.0079 -0.0083 0.0371 0.0505 0.0149 0.0280 0.0093 0.0026 0.0007 0.0317 0.0158  
 0.0183 -0.0203 -0.0156 -0.0220 -0.0001 -0.0050 -0.0046 -0.0077 0.0231 0.0393 -0.0242 0.0044 -0.0216 0.0054 0.0156  
 0.0219 -0.0442 -0.0166 -0.0150 0.0021 0.0046 -0.0293 -0.0532 0.0212 0.0168 -0.0264 0.0117 -0.0508 -0.0307 -0.0039  
  
 Columns 9,931 through 9,945  
  
 0.0057 0.0036 -0.0006 -0.0079 -0.0019 -0.0321 0.0222 0.0232 -0.0277 0.0000 0.0305 -0.0045 -0.0255 -0.0104 0.0184  
 -0.0093 -0.0361 0.0071 0.0308 -0.0160 -0.0236 0.0050 -0.0065 -0.0324 0.0092 -0.0261 -0.0026 0.0133 0.0066 -0.0040  
 -0.0269 -0.0407 0.0014 0.0513 -0.0190 -0.0088 -0.0004 -0.0329 -0.0182 -0.0056 -0.0581 0.0070 0.0253 0.0159 -0.0191  
  
 Columns 9,946 through 9,960  
  
 0.0187 0.0106 -0.0081 0.0082 0.0079 -0.0011 0.0028 -0.0026 0.0287 0.0141 0.0251 0.0220 -0.0223 0.0019 0.0158  
 0.0105 0.0025 0.0125 0.0136 0.0569 -0.0255 -0.0106 -0.0395 0.0109 0.0246 0.0030 -0.0229 -0.0422 0.0434 -0.0185  
 0.0109 -0.0134 0.0148 0.0043 0.0707 -0.0295 -0.0203 -0.0355 -0.0151 0.0202 -0.0207 -0.0337 -0.0203 0.0480 -0.0275  
  
 Columns 9,961 through 9,975  
  
 -0.0088 0.0098 0.0186 0.0195 -0.0256 0.0073 -0.0436 0.0129 -0.0393 -0.0131 -0.0052 0.0317 0.0097 0.0013 -0.0108  
 0.0181 0.0121 0.0088 -0.0183 0.0221 0.0052 -0.0320 0.0057 -0.0147 -0.0037 0.0036 0.0076 -0.0561 -0.0218 0.0067  
 0.0260 0.0179 0.0006 -0.0438 0.0583 0.0062 0.0012 0.0047 0.0102 0.0083 0.0035 -0.0247 -0.0710 -0.0288 0.0265  
  
 Columns 9,976 through 9,990  
  
 -0.0175 0.0016 0.0093 0.0020 0.0053 -0.0272 0.0180 0.0331 0.0181 0.0347 -0.0044 -0.0238 0.0182 0.0328 0.0117  
 0.0105 0.0210 0.0186 0.0047 0.0235 -0.0229 -0.0263 0.0119 0.0351 0.0242 0.0125 0.0192 -0.0069 0.0305 0.0342  
 0.0289 0.0265 0.0171 0.0151 0.0125 -0.0021 -0.0409 -0.0179 0.0325 -0.0060 0.0187 0.0445 -0.0352 -0.0035 0.0292  
  
 Columns 9,991 through 10,000  
  
 0.0067 -0.0265 0.0112 -0.0272 0.0083 0.0011 -0.0094 -0.0077 -0.0013 0.0120  
 0.0068 0.0128 0.0402 0.0118 -0.0100 0.0262 0.0341 0.0261 0.0178 0.0034

0.0051 0.0363 0.0466 0.0204 -0.0257 0.0259 0.0554 0.0402 0.0125 -0.0030

The responses we get:

-0.0171  
 2.0001  
 2.0173

-2.0020  
 0.0152  
 2.0152

1.0039  
 1.0002  
 0.9963

Given Target Values:

0  
 2  
 2

-2  
 0  
 2

1  
 1  
 1

Similarity between response and corresponding targets:

1.0000

1.0000

1.0000

Screenshots:

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generated

### Question 4:

theta = linspace(0, 2\*pi, 100);  % Angles for circle points

radius = 1;  % Radius of the cylinder

height = 1;  % Height of the cylinder

% Create circle points at z=0

x\_circle = radius \* cos(theta);

y\_circle = radius \* sin(theta);

z\_circle = zeros(size(theta));

% Create circle points at z=1

z\_top\_circle = ones(size(theta));

% Combine points for the surface plot

x\_surface = [x\_circle; x\_circle];

y\_surface = [y\_circle; y\_circle];

z\_surface = [z\_circle; z\_top\_circle];

% Create the surface plot

figure;

surf(x\_surface, y\_surface, z\_surface, 'EdgeColor', 'none');

title('Surface Plot of a Cylinder');

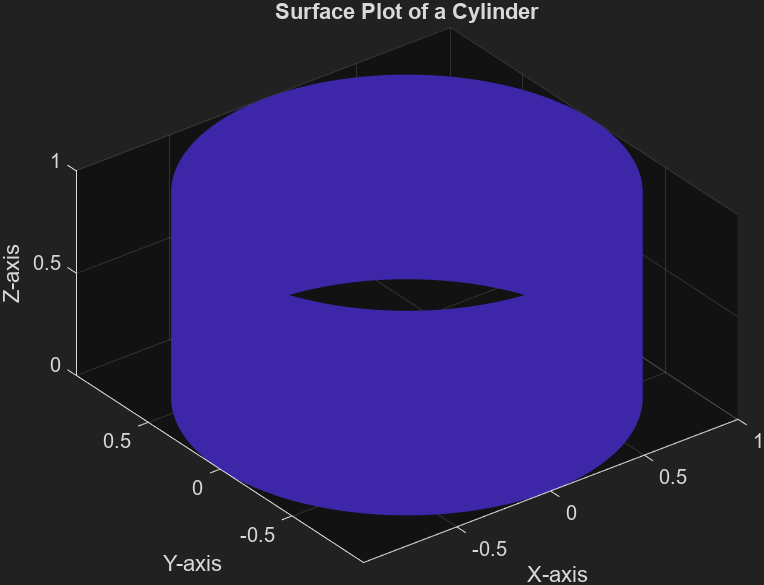
xlabel('X-axis');

ylabel('Y-axis');

zlabel('Z-axis');

axis equal;

Output:



Code Screenshot:

A screenshot of a computer program

Description automatically generated

### Question 5:

% Define parameters

theta = linspace(0, 2\*pi, 100);  % Angles for circle points

radius = 1;  % Radius of the cylinder

height = 10;  % Height of the cylinder

% Create circle points at z=0

x\_circle = radius \* cos(theta);

y\_circle = radius \* sin(theta);

z\_circle = zeros(size(theta));

% Create circle points at x=0

x\_circle1 = zeros(size(theta));

y\_circle1 = radius \* cos(theta);

z\_circle1 = radius \* sin(theta);

% Create circle points at y=0

x\_circle2 = radius \* sin(theta);

y\_circle2 = zeros(size(theta));

z\_circle2 = radius \* cos(theta);

% Create circle points at z=height

z\_top\_circle = height.\*ones(size(theta));

x\_top\_circle = height.\*ones(size(theta));

y\_top\_circle = height.\*ones(size(theta));

% Translate the blue cylinder along the negative x-axis by height/2 units

z\_circle = z\_circle - height/2;

z\_top\_circle = z\_top\_circle - height/2;

% Translate the green cylinder along the negative y-axis by height/2 units

y\_circle2 = y\_circle2 - height/2;

y\_top\_circle = y\_top\_circle - height/2;

% Translate the red cylinder along the negative x-axis by height/2 units

x\_circle1 = x\_circle1 - height/2;

x\_top\_circle = x\_top\_circle - height/2;

% Combine points for the surface plot

x\_surface = [x\_circle; x\_circle];

y\_surface = [y\_circle; y\_circle];

z\_surface = [z\_circle; z\_top\_circle];

% Combine points for the surface plot

x\_surface1 = [x\_circle1; x\_top\_circle];

y\_surface1 = [y\_circle1; y\_circle1];

z\_surface1 = [z\_circle1; z\_circle1];

% Combine points for the surface plot

x\_surface2 = [x\_circle2; x\_circle2];

y\_surface2 = [y\_circle2; y\_top\_circle];

z\_surface2 = [z\_circle2; z\_circle2];

% Create the surface plot

figure;

surf(x\_surface, y\_surface, z\_surface, 'EdgeColor', 'none','FaceColor', 'blue');

hold on;  % Fix: Add hold on to keep all surfaces on the same plot

surf(x\_surface1, y\_surface1, z\_surface1, 'EdgeColor', 'none','FaceColor', 'red');

surf(x\_surface2, y\_surface2, z\_surface2, 'EdgeColor', 'none','FaceColor', 'green');

hold off;  % Fix: Add hold off to release the hold

title('Surface Plot of a Tricylinder');  % Fix: Update the title

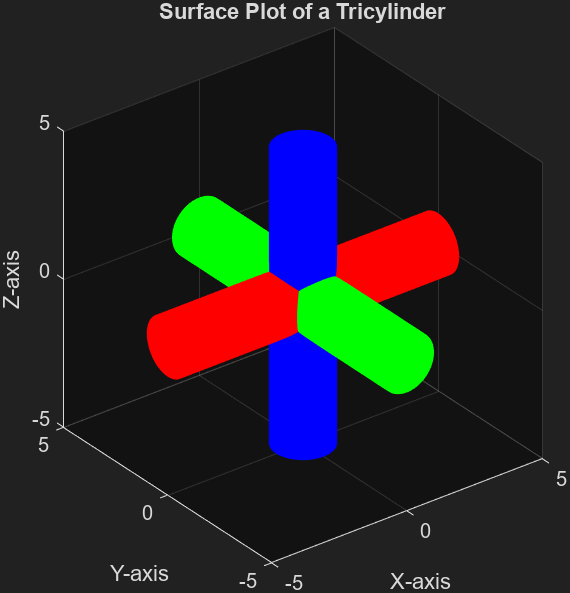
xlabel('X-axis');

ylabel('Y-axis');

zlabel('Z-axis');

axis equal;

Output:



Code Screenshot:

A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated