

AM-94-557

Crystal structure and optical properties of Na- and Pb-exchanged heulandite-  
group zeolites

Mickey E. Gunter, Thomas Armbruster, Thomas Kohler, Charles R. Knowles

For deposit: Tables 2 - 6

American Mineralogist, 79, 7-8, 675-682.

The following tables (2-6) to be deposited with the American Mineralogist:

Table 2: Observed and calculated structure factors for the nonexchanged, Na-exchanged, and Pb-exchanged Poona samples.

Table 3: Occupancies, positional parameters, and  $B_{eq}$  values for the nonexchanged Poona samples.

Table 4: Occupancies, positional parameters, and  $B_{eq}$  values for the Na-exchanged Poona samples.

Table 5: Occupancies, positional parameters, and  $B_{eq}$  values for the Pb-exchanged Poona samples.

Table 6: T-O distances and T-O-T bridging angles for the nonexchanged, Na-exchanged, and Pb-exchanged Poona samples.

non-exchanged  
Poona  
Table 2a

| H  | K | L | 10FO | 10FC  | H  | K | L | 10FO | 10FC  | H  | K  | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  |
|----|---|---|------|-------|----|---|---|------|-------|----|----|---|------|-------|-----|----|---|------|-------|-----|---|---|------|-------|
| 2  | 0 | 0 | 1335 | -1525 | 3  | 5 | 0 | 2354 | -2337 | 8  | 10 | 0 | 381  | -382  | 12  | 16 | 0 | 115  | -469  | 1   | 1 | 1 | 1276 | 1343  |
| 4  | 0 | 0 | 1914 | 1881  | 5  | 5 | 0 | 177  | 215   | 10 | 10 | 0 | 89   | -35   | 1   | 17 | 0 | 190  | 155   | 3   | 1 | 1 | 514  | -531  |
| 6  | 0 | 0 | 321  | -211  | 7  | 5 | 0 | 170  | -55   | 12 | 10 | 0 | 516  | -508  | 3   | 17 | 0 | 787  | -772  | 5   | 1 | 1 | 663  | 659   |
| 8  | 0 | 0 | 972  | -974  | 9  | 5 | 0 | 910  | 863   | 14 | 10 | 0 | 803  | 829   | 5   | 17 | 0 | 92   | -23   | 7   | 1 | 1 | 164  | 101   |
| 10 | 0 | 0 | 1567 | 1609  | 11 | 5 | 0 | 748  | 691   | 16 | 10 | 0 | 117  | -51   | 7   | 17 | 0 | 745  | -753  | 9   | 1 | 1 | 283  | 292   |
| 12 | 0 | 0 | 210  | -170  | 13 | 5 | 0 | 346  | -397  | 1  | 11 | 0 | 181  | -179  | 9   | 17 | 0 | 306  | -315  | 11  | 1 | 1 | 766  | 741   |
| 14 | 0 | 0 | 1093 | 1109  | 15 | 5 | 0 | 343  | 317   | 3  | 11 | 0 | 535  | -521  | 11  | 17 | 0 | 281  | -285  | 13  | 1 | 1 | 556  | -565  |
| 16 | 0 | 0 | 496  | 535   | 17 | 5 | 0 | 584  | -576  | 5  | 11 | 0 | 70   | 7     | 2   | 18 | 0 | 209  | 205   | 15  | 1 | 1 | 448  | 398   |
| 18 | 0 | 0 | 467  | 465   | 0  | 6 | 0 | 1081 | 1056  | 7  | 11 | 0 | 382  | 360   | 4   | 18 | 0 | 153  | -128  | 17  | 1 | 1 | 117  | -101  |
| 1  | 1 | 0 | 192  | -189  | 2  | 6 | 0 | 100  | -34   | 9  | 11 | 0 | 268  | -264  | 6   | 18 | 0 | 535  | 543   | -18 | 2 | 1 | 546  | -579  |
| 3  | 1 | 0 | 987  | -1008 | 4  | 6 | 0 | 909  | -912  | 11 | 11 | 0 | 371  | 376   | 8   | 18 | 0 | 350  | 321   | -16 | 2 | 1 | 159  | 131   |
| 5  | 1 | 0 | 167  | 95    | 6  | 6 | 0 | 881  | 872   | 13 | 11 | 0 | 237  | -203  | 10  | 18 | 0 | 201  | -202  | -14 | 2 | 1 | 154  | -155  |
| 7  | 1 | 0 | 375  | 470   | 8  | 6 | 0 | 1411 | -1395 | 15 | 11 | 0 | 242  | -215  | 1   | 19 | 0 | 197  | 165   | -12 | 2 | 1 | 241  | -236  |
| 9  | 1 | 0 | 405  | -356  | 10 | 6 | 0 | 80   | -93   | 0  | 12 | 0 | 1405 | 1428  | 3   | 19 | 0 | 67   | 87    | -10 | 2 | 1 | 497  | -456  |
| 11 | 1 | 0 | 508  | 512   | 12 | 6 | 0 | 619  | 583   | 2  | 12 | 0 | 953  | -951  | 7   | 19 | 0 | 331  | 339   | -8  | 2 | 1 | 295  | -351  |
| 13 | 1 | 0 | 277  | 280   | 14 | 6 | 0 | 768  | -806  | 4  | 12 | 0 | 72   | 38    | 0   | 20 | 0 | 480  | 460   | -6  | 2 | 1 | 1680 | -1669 |
| 15 | 1 | 0 | 393  | -384  | 16 | 6 | 0 | 379  | 374   | 6  | 12 | 0 | 754  | 771   | 2   | 20 | 0 | 77   | -48   | -4  | 2 | 1 | 1265 | -1266 |
| 17 | 1 | 0 | 243  | 297   | 18 | 6 | 0 | 162  | -153  | 8  | 12 | 0 | 775  | -785  | 4   | 20 | 0 | 244  | 234   | -2  | 2 | 1 | 312  | 365   |
| 0  | 2 | 0 | 1634 | -1900 | 1  | 7 | 0 | 751  | 732   | 10 | 12 | 0 | 501  | 515   | 6   | 20 | 0 | 373  | -374  | 0   | 2 | 1 | 599  | -576  |
| 2  | 2 | 0 | 458  | -526  | 3  | 7 | 0 | 684  | -701  | 12 | 12 | 0 | 206  | -190  | 1   | 21 | 0 | 285  | -314  | 2   | 2 | 1 | 1067 | 1057  |
| 4  | 2 | 0 | 481  | -494  | 5  | 7 | 0 | 342  | -348  | 14 | 12 | 0 | 252  | -255  | -18 | 0  | 1 | 328  | 303   | 4   | 2 | 1 | 757  | -710  |
| 6  | 2 | 0 | 965  | -897  | 7  | 7 | 0 | 1316 | -1331 | 1  | 13 | 0 | 309  | 277   | -16 | 0  | 1 | 205  | -220  | 6   | 2 | 1 | 1345 | -1417 |
| 8  | 2 | 0 | 218  | 137   | 9  | 7 | 0 | 970  | -1044 | 3  | 13 | 0 | 149  | 59    | -14 | 0  | 1 | 736  | -754  | 8   | 2 | 1 | 215  | 204   |
| 10 | 2 | 0 | 847  | -864  | 11 | 7 | 0 | 333  | 300   | 5  | 13 | 0 | 1329 | -1349 | -12 | 0  | 1 | 1774 | 1726  | 10  | 2 | 1 | 1417 | -1427 |
| 12 | 2 | 0 | 248  | -233  | 13 | 7 | 0 | 547  | 528   | 7  | 13 | 0 | 650  | 656   | -10 | 0  | 1 | 175  | 86    | 12  | 2 | 1 | 467  | -454  |
| 14 | 2 | 0 | 698  | -697  | 15 | 7 | 0 | 161  | 117   | 9  | 13 | 0 | 974  | -991  | -8  | 0  | 1 | 699  | -624  | 14  | 2 | 1 | 293  | 263   |
| 16 | 2 | 0 | 828  | -807  | 17 | 7 | 0 | 90   | 61    | 11 | 13 | 0 | 436  | 449   | -6  | 0  | 1 | 987  | 1014  | 16  | 2 | 1 | 158  | 109   |
| 18 | 2 | 0 | 367  | -324  | 0  | 8 | 0 | 875  | 745   | 0  | 14 | 0 | 103  | 43    | -4  | 0  | 1 | 1365 | 1403  | -19 | 3 | 1 | 302  | 317   |
| 1  | 3 | 0 | 304  | -341  | 2  | 8 | 0 | 540  | -463  | 2  | 14 | 0 | 1103 | 1068  | -2  | 0  | 1 | 1131 | 1241  | -17 | 3 | 1 | 615  | -606  |
| 3  | 3 | 0 | 1805 | 1810  | 4  | 8 | 0 | 85   | -58   | 4  | 14 | 0 | 230  | -229  | 0   | 0  | 1 | 863  | -901  | -15 | 3 | 1 | 135  | 138   |
| 5  | 3 | 0 | 2577 | -2543 | 6  | 8 | 0 | 176  | -126  | 6  | 14 | 0 | 92   | -53   | 2   | 0  | 1 | 171  | 74    | -13 | 3 | 1 | 1042 | -1046 |
| 7  | 3 | 0 | 1005 | 990   | 8  | 8 | 0 | 1511 | 1469  | 8  | 14 | 0 | 139  | 83    | 4   | 0  | 1 | 1278 | -1259 | -11 | 3 | 1 | 233  | -208  |
| 9  | 3 | 0 | 294  | -280  | 10 | 8 | 0 | 357  | -390  | 10 | 14 | 0 | 198  | -191  | 6   | 0  | 1 | 441  | 477   | -9  | 3 | 1 | 213  | 159   |

| H   | K | L | 10FO | 10FC  |
|-----|---|---|------|-------|
| 11  | 3 | 0 | 564  | -598  |
| 13  | 3 | 0 | 460  | 427   |
| 15  | 3 | 0 | 303  | 278   |
| 17  | 3 | 0 | 110  | 110   |
| 0   | 4 | 0 | 329  | 287   |
| 2   | 4 | 0 | 1781 | 1776  |
| 4   | 4 | 0 | 174  | 73    |
| 6   | 4 | 0 | 1135 | 1075  |
| 8   | 4 | 0 | 301  | 269   |
| 10  | 4 | 0 | 82   | -80   |
| 12  | 4 | 0 | 180  | -210  |
| 14  | 4 | 0 | 530  | 505   |
| 16  | 4 | 0 | 165  | 147   |
| 18  | 4 | 0 | 91   | 94    |
| 1   | 5 | 0 | 433  | 412   |
| -14 | 4 | 1 | 327  | 324   |
| -12 | 4 | 1 | 513  | -504  |
| -10 | 4 | 1 | 678  | 689   |
| -8  | 4 | 1 | 1046 | 1006  |
| -6  | 4 | 1 | 1027 | 951   |
| -4  | 4 | 1 | 2009 | 1974  |
| -2  | 4 | 1 | 695  | -618  |
| 0   | 4 | 1 | 269  | 299   |
| 2   | 4 | 1 | 274  | -210  |
| 4   | 4 | 1 | 1490 | 1404  |
| 6   | 4 | 1 | 1234 | -1177 |
| 8   | 4 | 1 | 919  | 940   |
| 10  | 4 | 1 | 287  | 306   |
| 12  | 4 | 1 | 455  | -423  |
| 14  | 4 | 1 | 376  | 390   |
| 16  | 4 | 1 | 413  | -445  |
| -19 | 5 | 1 | 295  | -285  |
| -17 | 5 | 1 | 859  | 915   |
| -15 | 5 | 1 | 161  | -29   |

| H   | K  | L | 10FO | 10FC  |
|-----|----|---|------|-------|
| 12  | 8  | 0 | 154  | -154  |
| 14  | 8  | 0 | 507  | -529  |
| 16  | 8  | 0 | 262  | -244  |
| 1   | 9  | 0 | 812  | -767  |
| 3   | 9  | 0 | 765  | 772   |
| 5   | 9  | 0 | 717  | -728  |
| 7   | 9  | 0 | 1074 | 1060  |
| 9   | 9  | 0 | 735  | 702   |
| 11  | 9  | 0 | 531  | -558  |
| 13  | 9  | 0 | 635  | 625   |
| 15  | 9  | 0 | 109  | -70   |
| 0   | 10 | 0 | 1886 | 1926  |
| 2   | 10 | 0 | 268  | -264  |
| 4   | 10 | 0 | 1153 | 1123  |
| 6   | 10 | 0 | 669  | -676  |
| 8   | 6  | 1 | 1073 | -1003 |
| 10  | 6  | 1 | 732  | 794   |
| 12  | 6  | 1 | 455  | -417  |
| 14  | 6  | 1 | 255  | -221  |
| 16  | 6  | 1 | 222  | 230   |
| -17 | 7  | 1 | 112  | 145   |
| -15 | 7  | 1 | 189  | -108  |
| -13 | 7  | 1 | 901  | -852  |
| -11 | 7  | 1 | 692  | 720   |
| -9  | 7  | 1 | 738  | -723  |
| -7  | 7  | 1 | 392  | 376   |
| -5  | 7  | 1 | 309  | -271  |
| -3  | 7  | 1 | 655  | -579  |
| -1  | 7  | 1 | 452  | 425   |
| 1   | 7  | 1 | 495  | 375   |
| 3   | 7  | 1 | 632  | -564  |
| 5   | 7  | 1 | 962  | -966  |
| 7   | 7  | 1 | 305  | 329   |
| 9   | 7  | 1 | 255  | 316   |

| H   | K  | L | 10FO | 10FC  |
|-----|----|---|------|-------|
| 12  | 14 | 0 | 195  | 174   |
| 14  | 14 | 0 | 193  | 184   |
| 1   | 15 | 0 | 601  | -616  |
| 3   | 15 | 0 | 193  | 202   |
| 5   | 15 | 0 | 679  | 675   |
| 7   | 15 | 0 | 221  | 214   |
| 9   | 15 | 0 | 968  | 945   |
| 11  | 15 | 0 | 132  | -153  |
| 13  | 15 | 0 | 187  | 172   |
| 0   | 16 | 0 | 226  | 223   |
| 2   | 16 | 0 | 277  | -293  |
| 4   | 16 | 0 | 126  | -21   |
| 6   | 16 | 0 | 176  | -148  |
| 8   | 16 | 0 | 98   | -24   |
| 10  | 16 | 0 | 197  | -182  |
| -1  | 9  | 1 | 810  | -806  |
| 1   | 9  | 1 | 204  | 148   |
| 3   | 9  | 1 | 1402 | 1399  |
| 5   | 9  | 1 | 304  | -283  |
| 7   | 9  | 1 | 332  | 368   |
| 9   | 9  | 1 | 324  | 340   |
| 11  | 9  | 1 | 278  | -263  |
| 13  | 9  | 1 | 274  | 285   |
| 15  | 9  | 1 | 288  | 272   |
| -16 | 10 | 1 | 387  | -392  |
| -14 | 10 | 1 | 465  | -471  |
| -12 | 10 | 1 | 100  | -1    |
| -10 | 10 | 1 | 529  | -567  |
| -8  | 10 | 1 | 1718 | 1711  |
| -6  | 10 | 1 | 75   | 37    |
| -4  | 10 | 1 | 645  | 705   |
| -2  | 10 | 1 | 458  | 416   |
| 0   | 10 | 1 | 1613 | -1621 |
| 2   | 10 | 1 | 826  | 808   |

| H   | K  | L | 10FO | 10FC  |
|-----|----|---|------|-------|
| 8   | 0  | 1 | 811  | -796  |
| 10  | 0  | 1 | 653  | 636   |
| 12  | 0  | 1 | 1216 | 1229  |
| 14  | 0  | 1 | 796  | -833  |
| 16  | 0  | 1 | 607  | 579   |
| -19 | 1  | 1 | 245  | 233   |
| -17 | 1  | 1 | 280  | 263   |
| -15 | 1  | 1 | 356  | 333   |
| -13 | 1  | 1 | 255  | 203   |
| -11 | 1  | 1 | 276  | 240   |
| -9  | 1  | 1 | 218  | 117   |
| -7  | 1  | 1 | 926  | -928  |
| -5  | 1  | 1 | 1014 | 955   |
| -3  | 1  | 1 | 1068 | -1112 |
| -1  | 1  | 1 | 150  | 57    |
| 2   | 12 | 1 | 77   | -12   |
| 4   | 12 | 1 | 195  | -123  |
| 6   | 12 | 1 | 1199 | -1215 |
| 8   | 12 | 1 | 705  | -689  |
| 10  | 12 | 1 | 564  | -581  |
| 12  | 12 | 1 | 88   | 92    |
| 14  | 12 | 1 | 496  | -539  |
| -15 | 13 | 1 | 81   | 86    |
| -13 | 13 | 1 | 481  | -497  |
| -11 | 13 | 1 | 452  | 419   |
| -9  | 13 | 1 | 304  | -313  |
| -7  | 13 | 1 | 456  | -440  |
| -5  | 13 | 1 | 1003 | 1052  |
| -3  | 13 | 1 | 590  | -589  |
| -1  | 13 | 1 | 83   | -30   |
| 1   | 13 | 1 | 610  | -628  |
| 3   | 13 | 1 | 407  | -386  |
| 5   | 13 | 1 | 475  | 498   |
| 7   | 13 | 1 | 245  | -214  |

| H   | K  | L | 10FO | 10FC  |
|-----|----|---|------|-------|
| -7  | 3  | 1 | 117  | -118  |
| -5  | 3  | 1 | 240  | 194   |
| -3  | 3  | 1 | 201  | 168   |
| -1  | 3  | 1 | 1506 | -1512 |
| 1   | 3  | 1 | 2469 | -2496 |
| 3   | 3  | 1 | 784  | 701   |
| 5   | 3  | 1 | 505  | -561  |
| 7   | 3  | 1 | 565  | 581   |
| 9   | 3  | 1 | 1027 | 1061  |
| 11  | 3  | 1 | 1205 | -1229 |
| 13  | 3  | 1 | 509  | 534   |
| 15  | 3  | 1 | 530  | -562  |
| 17  | 3  | 1 | 518  | -552  |
| -18 | 4  | 1 | 261  | 226   |
| -16 | 4  | 1 | 280  | -219  |
| -10 | 16 | 1 | 142  | -128  |
| -8  | 16 | 1 | 179  | 196   |
| -6  | 16 | 1 | 459  | -421  |
| -4  | 16 | 1 | 595  | 584   |
| -2  | 16 | 1 | 522  | -514  |
| 0   | 16 | 1 | 372  | -393  |
| 2   | 16 | 1 | 318  | -293  |
| 4   | 16 | 1 | 194  | -195  |
| 8   | 16 | 1 | 356  | -365  |
| -11 | 17 | 1 | 177  | 131   |
| -9  | 17 | 1 | 591  | -578  |
| -7  | 17 | 1 | 633  | 630   |
| -5  | 17 | 1 | 252  | -228  |
| -3  | 17 | 1 | 86   | 32    |
| -1  | 17 | 1 | 398  | -418  |
| 1   | 17 | 1 | 407  | -432  |
| 5   | 17 | 1 | 239  | -201  |
| 7   | 17 | 1 | 341  | 356   |
| 9   | 17 | 1 | 139  | -104  |



| H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC | H   | K  | L | 10FO | 10FC |
|-----|---|---|------|-------|-----|---|---|------|-------|-----|----|---|------|-------|-----|----|---|------|------|-----|----|---|------|------|
| -13 | 5 | 1 | 1359 | 1412  | 11  | 7 | 1 | 468  | 497   | 4   | 10 | 1 | 1108 | -1079 | 9   | 13 | 1 | 815  | 831  | -10 | 18 | 1 | 203  | 207  |
| -11 | 5 | 1 | 916  | 937   | 13  | 7 | 1 | 285  | -252  | 6   | 10 | 1 | 424  | 462   | 11  | 13 | 1 | 101  | 92   | -8  | 18 | 1 | 544  | -540 |
| -9  | 5 | 1 | 980  | -985  | 15  | 7 | 1 | 489  | -527  | 8   | 10 | 1 | 662  | 701   | 13  | 13 | 1 | 347  | 346  | -6  | 18 | 1 | 415  | 423  |
| -7  | 5 | 1 | 563  | -522  | -18 | 8 | 1 | 486  | -514  | 12  | 10 | 1 | 449  | 430   | -14 | 14 | 1 | 105  | 86   | -4  | 18 | 1 | 216  | -210 |
| -5  | 5 | 1 | 1016 | -1056 | -16 | 8 | 1 | 195  | 213   | 14  | 10 | 1 | 293  | -343  | -12 | 14 | 1 | 86   | -35  | 0   | 18 | 1 | 809  | 784  |
| -3  | 5 | 1 | 1602 | 1610  | -14 | 8 | 1 | 372  | 396   | -17 | 11 | 1 | 207  | 192   | -10 | 14 | 1 | 418  | 379  | 2   | 18 | 1 | 308  | -295 |
| -1  | 5 | 1 | 144  | 132   | -12 | 8 | 1 | 111  | -32   | -15 | 11 | 1 | 157  | -119  | -8  | 14 | 1 | 462  | 460  | 4   | 18 | 1 | 530  | 516  |
| 1   | 5 | 1 | 2559 | 2525  | -10 | 8 | 1 | 822  | 806   | -13 | 11 | 1 | 413  | 394   | -6  | 14 | 1 | 130  | 100  | 6   | 18 | 1 | 266  | -247 |
| 3   | 5 | 1 | 1087 | 1075  | -8  | 8 | 1 | 1219 | -1197 | -11 | 11 | 1 | 194  | -186  | -4  | 14 | 1 | 845  | 865  | 8   | 18 | 1 | 304  | -305 |
| 5   | 5 | 1 | 792  | 732   | -6  | 8 | 1 | 335  | 332   | -9  | 11 | 1 | 337  | 310   | -2  | 14 | 1 | 256  | 258  | -9  | 19 | 1 | 178  | -149 |
| 7   | 5 | 1 | 364  | 383   | -4  | 8 | 1 | 491  | 505   | -7  | 11 | 1 | 749  | -710  | 0   | 14 | 1 | 101  | -7   | -7  | 19 | 1 | 254  | -231 |
| 9   | 5 | 1 | 1015 | -966  | -2  | 8 | 1 | 642  | 583   | -5  | 11 | 1 | 555  | 595   | 2   | 14 | 1 | 370  | 361  | -5  | 19 | 1 | 165  | 164  |
| 11  | 5 | 1 | 894  | 933   | 0   | 8 | 1 | 464  | -375  | -3  | 11 | 1 | 534  | -520  | 4   | 14 | 1 | 85   | 30   | -3  | 19 | 1 | 206  | -207 |
| 13  | 5 | 1 | 130  | -49   | 2   | 8 | 1 | 319  | 264   | -1  | 11 | 1 | 178  | 97    | 6   | 14 | 1 | 161  | -125 | -1  | 19 | 1 | 741  | 734  |
| 15  | 5 | 1 | 505  | 503   | 4   | 8 | 1 | 1123 | 1118  | 1   | 11 | 1 | 285  | 214   | 8   | 14 | 1 | 587  | 605  | 1   | 19 | 1 | 164  | 122  |
| 17  | 5 | 1 | 734  | 743   | 6   | 8 | 1 | 1131 | -1084 | 3   | 11 | 1 | 683  | -673  | 12  | 14 | 1 | 195  | 177  | 3   | 19 | 1 | 407  | 395  |
| -18 | 6 | 1 | 286  | 266   | 8   | 8 | 1 | 151  | 198   | 5   | 11 | 1 | 902  | 920   | -13 | 15 | 1 | 251  | 274  | 5   | 19 | 1 | 81   | 60   |
| -16 | 6 | 1 | 666  | -614  | 10  | 8 | 1 | 915  | -889  | 7   | 11 | 1 | 240  | -182  | -11 | 15 | 1 | 137  | -127 | 7   | 19 | 1 | 92   | 83   |
| -14 | 6 | 1 | 431  | -407  | 12  | 8 | 1 | 483  | -471  | 11  | 11 | 1 | 158  | 129   | -9  | 15 | 1 | 234  | 237  | -4  | 20 | 1 | 362  | 356  |
| -12 | 6 | 1 | 238  | -152  | 14  | 8 | 1 | 648  | 659   | 13  | 11 | 1 | 533  | -561  | -5  | 15 | 1 | 941  | -930 | -2  | 20 | 1 | 96   | -42  |
| -10 | 6 | 1 | 453  | -396  | 16  | 8 | 1 | 346  | -399  | -16 | 12 | 1 | 274  | 290   | -3  | 15 | 1 | 622  | 609  | 0   | 20 | 1 | 380  | -364 |
| -8  | 6 | 1 | 182  | -128  | -17 | 9 | 1 | 193  | -196  | -14 | 12 | 1 | 439  | -448  | -1  | 15 | 1 | 551  | -552 | 2   | 20 | 1 | 83   | 45   |

| H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  |
|-----|---|---|------|-------|-----|---|---|------|-------|-----|---|---|------|-------|-----|----|---|------|-------|-----|----|---|------|-------|
| 0   | 0 | 2 | 1846 | 1851  | -11 | 3 | 2 | 629  | -652  | 15  | 5 | 2 | 90   | -76   | 12  | 8  | 2 | 204  | 139   | -12 | 12 | 2 | 259  | -216  |
| 2   | 0 | 2 | 817  | 744   | -9  | 3 | 2 | 807  | 785   | -18 | 6 | 2 | 91   | 3     | -15 | 9  | 2 | 362  | 345   | -10 | 12 | 2 | 148  | -91   |
| 4   | 0 | 2 | 1022 | 1072  | -7  | 3 | 2 | 348  | -443  | -16 | 6 | 2 | 392  | 347   | -13 | 9  | 2 | 501  | -502  | -8  | 12 | 2 | 193  | -178  |
| 6   | 0 | 2 | 444  | -464  | -5  | 3 | 2 | 762  | -735  | -14 | 6 | 2 | 322  | -323  | -11 | 9  | 2 | 152  | -53   | -6  | 12 | 2 | 90   | 27    |
| 8   | 0 | 2 | 313  | -300  | -3  | 3 | 2 | 741  | -747  | -12 | 6 | 2 | 1379 | 1361  | -9  | 9  | 2 | 728  | 748   | -4  | 12 | 2 | 290  | 270   |
| 10  | 0 | 2 | 180  | 117   | -1  | 3 | 2 | 1551 | -1561 | -10 | 6 | 2 | 786  | -797  | -7  | 9  | 2 | 446  | 412   | -2  | 12 | 2 | 117  | 74    |
| 14  | 0 | 2 | 110  | 109   | 1   | 3 | 2 | 781  | 836   | -8  | 6 | 2 | 660  | 691   | -5  | 9  | 2 | 161  | 115   | 0   | 12 | 2 | 520  | 496   |
| 16  | 0 | 2 | 436  | 457   | 3   | 3 | 2 | 1057 | 1028  | -6  | 6 | 2 | 259  | 268   | -3  | 9  | 2 | 1081 | 1041  | 2   | 12 | 2 | 1738 | -1774 |
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| -17 | 1 | 2 | 397  | 416   | 7   | 3 | 2 | 601  | -579  | -2  | 6 | 2 | 427  | 409   | 1   | 9  | 2 | 126  | 71    | 6   | 12 | 2 | 327  | -311  |
| -15 | 1 | 2 | 454  | -405  | 9   | 3 | 2 | 437  | -399  | 0   | 6 | 2 | 277  | -380  | 3   | 9  | 2 | 917  | 880   | 8   | 12 | 2 | 532  | -514  |
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| -11 | 1 | 2 | 161  | 132   | 13  | 3 | 2 | 275  | -288  | 6   | 6 | 2 | 124  | 102   | 7   | 9  | 2 | 1199 | 1232  | 12  | 12 | 2 | 236  | -239  |
| -9  | 1 | 2 | 1204 | -1209 | 15  | 3 | 2 | 123  | -120  | 8   | 6 | 2 | 102  | -30   | 9   | 9  | 2 | 81   | 24    | -15 | 13 | 2 | 261  | 221   |
| -7  | 1 | 2 | 1073 | 1144  | -20 | 4 | 2 | 231  | 223   | 10  | 6 | 2 | 295  | 288   | 11  | 9  | 2 | 132  | 93    | -13 | 13 | 2 | 244  | 245   |
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| -3  | 1 | 2 | 1364 | 1308  | -16 | 4 | 2 | 707  | 681   | 14  | 6 | 2 | 505  | -537  | -16 | 10 | 2 | 120  | 23    | -9  | 13 | 2 | 195  | 210   |
| -1  | 1 | 2 | 707  | 707   | -14 | 4 | 2 | 437  | -450  | -17 | 7 | 2 | 590  | -609  | -14 | 10 | 2 | 670  | 677   | -7  | 13 | 2 | 302  | -302  |
| 1   | 1 | 2 | 1817 | -1703 | -12 | 4 | 2 | 767  | 739   | -15 | 7 | 2 | 155  | 97    | -12 | 10 | 2 | 327  | 339   | -5  | 13 | 2 | 430  | -469  |
| 3   | 1 | 2 | 943  | 954   | -10 | 4 | 2 | 212  | 169   | -13 | 7 | 2 | 390  | 370   | -10 | 10 | 2 | 903  | 945   | -3  | 13 | 2 | 160  | 136   |
| 5   | 1 | 2 | 563  | -517  | -8  | 4 | 2 | 1294 | 1297  | -11 | 7 | 2 | 188  | -172  | -8  | 10 | 2 | 223  | 243   | -1  | 13 | 2 | 179  | 170   |
| 7   | 1 | 2 | 1039 | 1040  | -6  | 4 | 2 | 674  | -640  | -9  | 7 | 2 | 185  | -182  | -6  | 10 | 2 | 96   | -84   | 1   | 13 | 2 | 865  | 839   |
| 9   | 1 | 2 | 442  | -371  | -4  | 4 | 2 | 350  | -346  | -7  | 7 | 2 | 2094 | -2110 | -4  | 10 | 2 | 199  | -223  | 5   | 13 | 2 | 653  | 650   |
| 11  | 1 | 2 | 405  | 409   | -2  | 4 | 2 | 285  | 219   | -5  | 7 | 2 | 800  | -844  | -2  | 10 | 2 | 108  | -91   | 7   | 13 | 2 | 133  | -37   |
| 13  | 1 | 2 | 145  | -156  | 0   | 4 | 2 | 968  | -955  | -3  | 7 | 2 | 969  | -1034 | 0   | 10 | 2 | 247  | 246   | 9   | 13 | 2 | 99   | 10    |
| 15  | 1 | 2 | 255  | -226  | 2   | 4 | 2 | 781  | -687  | -1  | 7 | 2 | 181  | 130   | 2   | 10 | 2 | 762  | 740   | -14 | 14 | 2 | 645  | 639   |
| -20 | 2 | 2 | 199  | 209   | 4   | 4 | 2 | 271  | 264   | 1   | 7 | 2 | 197  | -199  | 4   | 10 | 2 | 1101 | 1070  | -12 | 14 | 2 | 85   | -55   |
| -18 | 2 | 2 | 100  | -36   | 6   | 4 | 2 | 342  | 326   | 3   | 7 | 2 | 94   | -50   | 6   | 10 | 2 | 329  | 350   | -10 | 14 | 2 | 628  | 644   |
| -16 | 2 | 2 | 869  | -860  | 8   | 4 | 2 | 316  | 344   | 5   | 7 | 2 | 538  | 547   | 8   | 10 | 2 | 245  | -223  | -8  | 14 | 2 | 374  | 373   |
| -14 | 2 | 2 | 365  | 398   | 10  | 4 | 2 | 895  | -910  | 7   | 7 | 2 | 1193 | -1219 | 10  | 10 | 2 | 174  | -135  | -6  | 14 | 2 | 710  | -717  |
| -12 | 2 | 2 | 1599 | -1595 | 12  | 4 | 2 | 203  | 147   | 9   | 7 | 2 | 511  | -498  | 12  | 10 | 2 | 170  | -183  | -4  | 14 | 2 | 954  | 978   |
| -10 | 2 | 2 | 548  | 560   | -19 | 5 | 2 | 243  | 234   | 11  | 7 | 2 | 614  | -623  | -17 | 11 | 2 | 475  | 479   | -2  | 14 | 2 | 711  | -745  |
| -8  | 2 | 2 | 250  | 218   | -17 | 5 | 2 | 519  | 492   | 13  | 7 | 2 | 499  | -538  | -15 | 11 | 2 | 639  | -633  | 0   | 14 | 2 | 669  | 689   |
| -6  | 2 | 2 | 372  | -351  | -15 | 5 | 2 | 320  | -340  | -18 | 8 | 2 | 86   | -74   | -13 | 11 | 2 | 310  | -285  | 2   | 14 | 2 | 346  | 313   |
| -4  | 2 | 2 | 2260 | 2238  | -13 | 5 | 2 | 264  | -284  | -16 | 8 | 2 | 92   | -113  | -9  | 11 | 2 | 1785 | -1762 | 4   | 14 | 2 | 105  | 73    |

| H   | K  | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  |
|-----|----|---|------|-------|-----|---|---|------|-------|-----|---|---|------|-------|-----|----|---|------|-------|-----|----|---|------|-------|
| -2  | 2  | 2 | 2104 | -2122 | -11 | 5 | 2 | 470  | -487  | -14 | 8 | 2 | 275  | 245   | -7  | 11 | 2 | 1556 | 1581  | 6   | 14 | 2 | 239  | 251   |
| 0   | 2  | 2 | 185  | 165   | -9  | 5 | 2 | 258  | -255  | -12 | 8 | 2 | 1617 | -1627 | -5  | 11 | 2 | 1356 | -1373 | 8   | 14 | 2 | 124  | -62   |
| 2   | 2  | 2 | 958  | -1008 | -7  | 5 | 2 | 1163 | 1155  | -10 | 8 | 2 | 601  | 606   | -3  | 11 | 2 | 325  | 276   | 10  | 14 | 2 | 127  | 86    |
| 4   | 2  | 2 | 75   | -24   | -5  | 5 | 2 | 321  | -287  | -8  | 8 | 2 | 204  | 232   | -1  | 11 | 2 | 229  | -223  | -13 | 15 | 2 | 481  | -461  |
| 6   | 2  | 2 | 124  | 29    | -3  | 5 | 2 | 403  | 365   | -6  | 8 | 2 | 397  | 338   | 1   | 11 | 2 | 1228 | -1308 | -11 | 15 | 2 | 261  | -259  |
| 8   | 2  | 2 | 814  | -810  | -1  | 5 | 2 | 911  | 907   | -4  | 8 | 2 | 371  | 373   | 3   | 11 | 2 | 878  | 889   | -9  | 15 | 2 | 242  | 231   |
| 10  | 2  | 2 | 872  | 909   | 1   | 5 | 2 | 245  | -293  | -2  | 8 | 2 | 885  | -939  | 5   | 11 | 2 | 885  | -900  | -5  | 15 | 2 | 520  | 506   |
| 12  | 2  | 2 | 111  | -80   | 3   | 5 | 2 | 75   | 9     | 0   | 8 | 2 | 538  | -529  | 7   | 11 | 2 | 88   | 41    | -3  | 15 | 2 | 572  | 569   |
| -1  | 15 | 2 | 270  | -246  | -20 | 0 | 3 | 663  | 645   | 8   | 2 | 3 | 83   | -45   | 3   | 5  | 3 | 1981 | 1987  | -2  | 8  | 3 | 1168 | -1159 |
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| 3   | 15 | 2 | 124  | 114   | -16 | 0 | 3 | 470  | 447   | 14  | 2 | 3 | 327  | -361  | 7   | 5  | 3 | 588  | 586   | 2   | 8  | 3 | 635  | 616   |
| 5   | 15 | 2 | 312  | -317  | -14 | 0 | 3 | 577  | -577  | -19 | 3 | 3 | 153  | -145  | 9   | 5  | 3 | 113  | -36   | 4   | 8  | 3 | 626  | -640  |
| 7   | 15 | 2 | 263  | 289   | -12 | 0 | 3 | 1000 | 999   | -17 | 3 | 3 | 201  | 196   | 11  | 5  | 3 | 265  | -224  | 6   | 8  | 3 | 929  | 953   |
| 9   | 15 | 2 | 192  | 196   | -10 | 0 | 3 | 1952 | -1937 | -15 | 3 | 3 | 773  | -773  | 13  | 5  | 3 | 200  | -181  | 10  | 8  | 3 | 414  | -395  |
| -12 | 16 | 2 | 315  | 299   | -8  | 0 | 3 | 95   | 37    | -13 | 3 | 3 | 1066 | -1047 | -20 | 6  | 3 | 153  | 118   | -17 | 9  | 3 | 140  | -124  |
| -10 | 16 | 2 | 433  | -432  | -6  | 0 | 3 | 703  | -532  | -11 | 3 | 3 | 535  | -530  | -18 | 6  | 3 | 503  | 502   | -15 | 9  | 3 | 325  | 322   |
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| -6  | 16 | 2 | 243  | 232   | -2  | 0 | 3 | 1211 | 1195  | -7  | 3 | 3 | 222  | -97   | -14 | 6  | 3 | 854  | 908   | -11 | 9  | 3 | 553  | 517   |
| -4  | 16 | 2 | 877  | -861  | 0   | 0 | 3 | 659  | -652  | -5  | 3 | 3 | 122  | 90    | -12 | 6  | 3 | 932  | -902  | -9  | 9  | 3 | 531  | 504   |
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| 0   | 16 | 2 | 1014 | -1019 | 4   | 0 | 3 | 476  | -402  | -1  | 3 | 3 | 304  | -396  | -8  | 6  | 3 | 431  | -394  | -5  | 9  | 3 | 834  | 839   |
| 2   | 16 | 2 | 361  | 325   | 6   | 0 | 3 | 1179 | -1153 | 1   | 3 | 3 | 267  | 316   | -6  | 6  | 3 | 396  | 429   | -3  | 9  | 3 | 147  | -96   |
| 4   | 16 | 2 | 95   | -85   | 8   | 0 | 3 | 561  | 535   | 3   | 3 | 3 | 1108 | -1086 | -4  | 6  | 3 | 207  | -182  | -1  | 9  | 3 | 778  | -735  |
| 6   | 16 | 2 | 391  | -387  | 10  | 0 | 3 | 644  | 646   | 5   | 3 | 3 | 1079 | -1050 | -2  | 6  | 3 | 201  | 147   | 1   | 9  | 3 | 1683 | 1707  |
| 8   | 16 | 2 | 246  | 274   | 12  | 0 | 3 | 372  | 388   | 7   | 3 | 3 | 675  | 705   | 0   | 6  | 3 | 964  | 967   | 3   | 9  | 3 | 95   | -47   |
| -11 | 17 | 2 | 91   | -108  | 14  | 0 | 3 | 545  | 503   | 9   | 3 | 3 | 1359 | -1384 | 2   | 6  | 3 | 1943 | -1936 | 5   | 9  | 3 | 869  | 884   |
| -9  | 17 | 2 | 92   | -56   | -19 | 1 | 3 | 350  | 315   | 11  | 3 | 3 | 319  | 325   | 4   | 6  | 3 | 805  | 798   | 7   | 9  | 3 | 148  | 82    |
| -7  | 17 | 2 | 457  | -456  | -17 | 1 | 3 | 457  | -479  | -20 | 4 | 3 | 176  | 148   | 6   | 6  | 3 | 628  | -597  | 9   | 9  | 3 | 235  | -247  |
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| -3  | 17 | 2 | 749  | -749  | -13 | 1 | 3 | 249  | 238   | -16 | 4 | 3 | 115  | -65   | 10  | 6  | 3 | 693  | 741   | -16 | 10 | 3 | 690  | 708   |
| -1  | 17 | 2 | 520  | 534   | -11 | 1 | 3 | 239  | -227  | -14 | 4 | 3 | 364  | 408   | 12  | 6  | 3 | 633  | -617  | -14 | 10 | 3 | 429  | -411  |
| 1   | 17 | 2 | 161  | -154  | -9  | 1 | 3 | 213  | 186   | -12 | 4 | 3 | 549  | -518  | -19 | 7  | 3 | 234  | -239  | -12 | 10 | 3 | 116  | 39    |
| 3   | 17 | 2 | 130  | 125   | -7  | 1 | 3 | 578  | 630   | -10 | 4 | 3 | 109  | -38   | -17 | 7  | 3 | 193  | 207   | -8  | 10 | 3 | 114  | 34    |
| 5   | 17 | 2 | 655  | 634   | -5  | 1 | 3 | 907  | 901   | -8  | 4 | 3 | 641  | -567  | -15 | 7  | 3 | 619  | -570  | -6  | 10 | 3 | 956  | 942   |

| H   | K  | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC |
|-----|----|---|------|-------|-----|----|---|------|-------|-----|---|---|------|-------|-----|---|---|------|-------|-----|----|---|------|------|
| 7   | 17 | 2 | 550  | -528  | -3  | 1  | 3 | 112  | -75   | -6  | 4 | 3 | 1459 | 1440  | -13 | 7 | 3 | 229  | -158  | -4  | 10 | 3 | 90   | 1    |
| -8  | 18 | 2 | 258  | 233   | -1  | 1  | 3 | 67   | -102  | -4  | 4 | 3 | 530  | -454  | -11 | 7 | 3 | 1030 | -1007 | -2  | 10 | 3 | 234  | 252  |
| -6  | 18 | 2 | 425  | 418   | 1   | 1  | 3 | 796  | 745   | -2  | 4 | 3 | 1086 | -1126 | -9  | 7 | 3 | 1028 | -1045 | 0   | 10 | 3 | 496  | 540  |
| -4  | 18 | 2 | 218  | 240   | 3   | 1  | 3 | 527  | -489  | 0   | 4 | 3 | 291  | -235  | -7  | 7 | 3 | 566  | 541   | 2   | 10 | 3 | 449  | -449 |
| -2  | 18 | 2 | 280  | 267   | 5   | 1  | 3 | 1016 | 1071  | 2   | 4 | 3 | 141  | 91    | -5  | 7 | 3 | 868  | -856  | 4   | 10 | 3 | 158  | 134  |
| 0   | 18 | 2 | 108  | 120   | 7   | 1  | 3 | 836  | -831  | 4   | 4 | 3 | 263  | 243   | -3  | 7 | 3 | 931  | 962   | 6   | 10 | 3 | 191  | -170 |
| 2   | 18 | 2 | 526  | -523  | 9   | 1  | 3 | 741  | 742   | 6   | 4 | 3 | 206  | -169  | -1  | 7 | 3 | 298  | -239  | 8   | 10 | 3 | 355  | 342  |
| 4   | 18 | 2 | 137  | -145  | 11  | 1  | 3 | 380  | -391  | 8   | 4 | 3 | 112  | 63    | 1   | 7 | 3 | 149  | 165   | 10  | 10 | 3 | 190  | 201  |
| 6   | 18 | 2 | 216  | 223   | 13  | 1  | 3 | 88   | -63   | 10  | 4 | 3 | 206  | 225   | 3   | 7 | 3 | 661  | -654  | 12  | 10 | 3 | 471  | 472  |
| -9  | 19 | 2 | 83   | 71    | -20 | 2  | 3 | 443  | -474  | 12  | 4 | 3 | 438  | 460   | 5   | 7 | 3 | 1301 | -1320 | -17 | 11 | 3 | 543  | -550 |
| -7  | 19 | 2 | 83   | -68   | -18 | 2  | 3 | 222  | -230  | 14  | 4 | 3 | 127  | 100   | 7   | 7 | 3 | 173  | -162  | -15 | 11 | 3 | 93   | 18   |
| -5  | 19 | 2 | 367  | 383   | -14 | 2  | 3 | 144  | -103  | -19 | 5 | 3 | 77   | -79   | 9   | 7 | 3 | 606  | -594  | -13 | 11 | 3 | 388  | -380 |
| -3  | 19 | 2 | 161  | 145   | -12 | 2  | 3 | 721  | 728   | -17 | 5 | 3 | 296  | -270  | 11  | 7 | 3 | 281  | 318   | -11 | 11 | 3 | 87   | -77  |
| -1  | 19 | 2 | 170  | 160   | -10 | 2  | 3 | 458  | 423   | -15 | 5 | 3 | 284  | 319   | 13  | 7 | 3 | 90   | -70   | -9  | 11 | 3 | 135  | 66   |
| 1   | 19 | 2 | 233  | 214   | -8  | 2  | 3 | 834  | 851   | -13 | 5 | 3 | 543  | 609   | -18 | 8 | 3 | 131  | -118  | -7  | 11 | 3 | 283  | -295 |
| 3   | 19 | 2 | 85   | -104  | -6  | 2  | 3 | 877  | -868  | -11 | 5 | 3 | 1498 | 1532  | -16 | 8 | 3 | 145  | -95   | -5  | 11 | 3 | 146  | 142  |
| 5   | 19 | 2 | 132  | 127   | -4  | 2  | 3 | 1097 | -1111 | -9  | 5 | 3 | 267  | 243   | -14 | 8 | 3 | 281  | -232  | -3  | 11 | 3 | 972  | -951 |
| -6  | 20 | 2 | 421  | -413  | -2  | 2  | 3 | 996  | -1123 | -7  | 5 | 3 | 902  | 909   | -12 | 8 | 3 | 806  | 835   | -1  | 11 | 3 | 830  | 866  |
| -4  | 20 | 2 | 93   | -35   | 0   | 2  | 3 | 383  | 297   | -5  | 5 | 3 | 227  | 167   | -10 | 8 | 3 | 379  | -383  | 1   | 11 | 3 | 599  | -605 |
| -2  | 20 | 2 | 140  | -121  | 2   | 2  | 3 | 579  | 593   | -3  | 5 | 3 | 642  | -658  | -8  | 8 | 3 | 704  | 693   | 3   | 11 | 3 | 633  | -642 |
| 0   | 20 | 2 | 136  | -128  | 4   | 2  | 3 | 163  | -131  | -1  | 5 | 3 | 2039 | 1999  | -6  | 8 | 3 | 1325 | -1323 | 5   | 11 | 3 | 599  | 596  |
| 2   | 20 | 2 | 337  | 347   | 6   | 2  | 3 | 952  | 986   | 1   | 5 | 3 | 154  | -35   | -4  | 8 | 3 | 85   | -17   | 7   | 11 | 3 | 760  | -762 |
| 9   | 11 | 3 | 461  | 479   | 3   | 15 | 3 | 380  | 356   | 10  | 0 | 4 | 848  | 862   | 7   | 3 | 4 | 262  | 219   | 6   | 6  | 4 | 177  | -176 |
| 11  | 11 | 3 | 728  | -726  | 7   | 15 | 3 | 471  | 466   | 12  | 0 | 4 | 766  | -716  | 9   | 3 | 4 | 486  | -507  | 8   | 6  | 4 | 450  | 428  |
| -16 | 12 | 3 | 310  | -309  | -12 | 16 | 3 | 425  | -409  | -19 | 1 | 4 | 140  | 113   | 11  | 3 | 4 | 195  | -187  | 10  | 6  | 4 | 279  | 241  |
| -14 | 12 | 3 | 90   | -49   | -10 | 16 | 3 | 320  | 315   | -17 | 1 | 4 | 322  | 304   | -20 | 4 | 4 | 190  | -155  | -19 | 7  | 4 | 247  | -253 |
| -12 | 12 | 3 | 857  | 844   | -8  | 16 | 3 | 477  | -473  | -15 | 1 | 4 | 226  | -187  | -18 | 4 | 4 | 202  | 137   | -17 | 7  | 4 | 778  | -811 |
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| -8  | 12 | 3 | 162  | 107   | -2  | 16 | 3 | 582  | -564  | -11 | 1 | 4 | 240  | -198  | -14 | 4 | 4 | 742  | -777  | -13 | 7  | 4 | 154  | -128 |
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| H   | K  | L | 10FO | 10FC | H   | K  | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC |
|-----|----|---|------|------|-----|----|---|------|-------|-----|---|---|------|-------|-----|---|---|------|-------|-----|---|---|------|------|
| 4   | 12 | 3 | 132  | 32   | -9  | 17 | 3 | 662  | -638  | 1   | 1 | 4 | 630  | -627  | -2  | 4 | 4 | 343  | -333  | -1  | 7 | 4 | 529  | -529 |
| 6   | 12 | 3 | 287  | -312 | -7  | 17 | 3 | 815  | 799   | 3   | 1 | 4 | 124  | 115   | 0   | 4 | 4 | 332  | 262   | 1   | 7 | 4 | 850  | -879 |
| 8   | 12 | 3 | 93   | -57  | -5  | 17 | 3 | 101  | -72   | 5   | 1 | 4 | 906  | -925  | 2   | 4 | 4 | 470  | 481   | 3   | 7 | 4 | 241  | 238  |
| 10  | 12 | 3 | 275  | -257 | -3  | 17 | 3 | 440  | 466   | 7   | 1 | 4 | 233  | 228   | 4   | 4 | 4 | 315  | -330  | 5   | 7 | 4 | 362  | -371 |
| -15 | 13 | 3 | 155  | -155 | -1  | 17 | 3 | 223  | 232   | 9   | 1 | 4 | 158  | 139   | 6   | 4 | 4 | 1104 | 1139  | 7   | 7 | 4 | 188  | -183 |
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| 1   | 13 | 3 | 214  | 204  | -2  | 18 | 3 | 243  | -233  | -8  | 2 | 4 | 1654 | -1669 | -9  | 5 | 4 | 576  | 563   | -8  | 8 | 4 | 952  | -963 |
| 3   | 13 | 3 | 308  | -307 | 0   | 18 | 3 | 91   | 60    | -6  | 2 | 4 | 399  | 356   | -7  | 5 | 4 | 692  | -695  | -6  | 8 | 4 | 146  | 119  |
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| 7   | 13 | 3 | 211  | 199  | 4   | 18 | 3 | 410  | 402   | -2  | 2 | 4 | 607  | -587  | -3  | 5 | 4 | 831  | 808   | -2  | 8 | 4 | 293  | 274  |
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| 0   | 14 | 3 | 325  | 345  | -14 | 0  | 4 | 1778 | 1826  | -17 | 3 | 4 | 118  | -113  | -18 | 6 | 4 | 286  | 263   | -13 | 9 | 4 | 507  | -483 |
| 2   | 14 | 3 | 324  | 303  | -12 | 0  | 4 | 274  | -233  | -15 | 3 | 4 | 318  | -318  | -16 | 6 | 4 | 214  | -230  | -11 | 9 | 4 | 1281 | 1291 |
| 4   | 14 | 3 | 313  | -340 | -10 | 0  | 4 | 595  | 603   | -13 | 3 | 4 | 757  | -754  | -14 | 6 | 4 | 622  | 623   | -9  | 9 | 4 | 85   | 12   |
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| 8   | 14 | 3 | 274  | 277  | -6  | 0  | 4 | 1471 | -1464 | -9  | 3 | 4 | 477  | -501  | -10 | 6 | 4 | 626  | -647  | -5  | 9 | 4 | 637  | 654  |
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| H   | K  | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC | H   | K | L | 10FO | 10FC | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC |
|-----|----|---|------|-------|-----|----|---|------|------|-----|---|---|------|------|-----|---|---|------|-------|-----|---|---|------|------|
| 1   | 15 | 3 | 275  | 276   | 8   | 0  | 4 | 310  | 293  | 5   | 3 | 4 | 152  | 131  | 4   | 6 | 4 | 96   | 68    | 9   | 9 | 4 | 319  | -356 |
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| 6   | 10 | 4 | 702  | 715   | 4   | 14 | 4 | 140  | 123  | -15 | 1 | 5 | 249  | 225  | -10 | 4 | 5 | 140  | 134   | 5   | 7 | 5 | 417  | -448 |
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| H   | K  | L | 10FO | 10FC | H   | K  | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC  |
|-----|----|---|------|------|-----|----|---|------|-------|-----|---|---|------|-------|-----|---|---|------|-------|-----|----|---|------|-------|
| -4  | 12 | 4 | 456  | 465  | -1  | 17 | 4 | 162  | -122  | -2  | 2 | 5 | 466  | -433  | 5   | 5 | 5 | 293  | -307  | -5  | 9  | 5 | 993  | 1009  |
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| 0   | 12 | 4 | 351  | 341  | 3   | 17 | 4 | 77   | -49   | 2   | 2 | 5 | 878  | -880  | 9   | 5 | 5 | 87   | 101   | -1  | 9  | 5 | 86   | 76    |
| 2   | 12 | 4 | 361  | -362 | -8  | 18 | 4 | 100  | 55    | 4   | 2 | 5 | 238  | 204   | -18 | 6 | 5 | 196  | 201   | 3   | 9  | 5 | 265  | -238  |
| 6   | 12 | 4 | 618  | -625 | -6  | 18 | 4 | 170  | 175   | 6   | 2 | 5 | 133  | 77    | -16 | 6 | 5 | 348  | -341  | 5   | 9  | 5 | 526  | 521   |
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| 1   | 13 | 4 | 782  | -803 | -10 | 0  | 5 | 1600 | -1620 | -7  | 3 | 5 | 816  | -820  | 2   | 6 | 5 | 261  | -270  | -2  | 10 | 5 | 989  | 999   |
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| H   | K  | L | 10FO | 10FC  | H   | K | L | 10FO | 10FC | H   | K | L | 10FO | 10FC  | H   | K  | L | 10FO | 10FC | H   | K  | L | 10FO | 10FC |
|-----|----|---|------|-------|-----|---|---|------|------|-----|---|---|------|-------|-----|----|---|------|------|-----|----|---|------|------|
| -6  | 12 | 5 | 278  | -254  | 6   | 0 | 6 | 183  | 173  | -2  | 4 | 6 | 73   | 42    | -2  | 8  | 6 | 81   | 17   | 1   | 13 | 6 | 328  | -338 |
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| -14 | 14 | 5 | 82   | -80   | -18 | 2 | 6 | 129  | 94   | 5   | 5 | 6 | 86   | 90    | -14 | 10 | 6 | 299  | -297 | -4  | 0  | 7 | 89   | -106 |
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| H   | K | L | 10FO | 10FC  |
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| -6  | 2 | 7 | 124  | 91    |
| -4  | 2 | 7 | 195  | -178  |
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| 0   | 2 | 7 | 721  | -721  |
| 2   | 2 | 7 | 231  | -229  |
| -17 | 3 | 7 | 371  | 368   |
| -15 | 3 | 7 | 460  | -460  |
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| -14 | 4 | 7 | 405  | 432   |
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| -10 | 4 | 7 | 508  | 486   |
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| -6  | 4 | 7 | 105  | 69    |

| H   | K | L | 10FO | 10FC |
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| 1   | 5 | 7 | 117  | 108  |
| 3   | 5 | 7 | 126  | 102  |
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| -14 | 6 | 7 | 522  | 549  |
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| -17 | 7 | 7 | 239  | 236  |
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| H   | K  | L | 10FO | 10FC |
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| -12 | 8  | 7 | 229  | 229  |
| -10 | 8  | 7 | 391  | -401 |
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| H   | K  | L | 10FO | 10FC |
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| -10 | 0  | 8 | 294  | 268  |
| -8  | 0  | 8 | 386  | 366  |
| -6  | 0  | 8 | 318  | -305 |
| -4  | 0  | 8 | 1287 | 1287 |
| -2  | 0  | 8 | 480  | -465 |
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| -2  | 2  | 8 | 225  | -221 |
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| H   | K | L | 10FO | 10FC |
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