AM-89-420

Sclarite, a new mineral from Franklin, New Jersey, with essential octahedrally and tetrahedrally coordinated zinc: Description and structure refinement

Joel D. Grice, Pete J. Dunn

For deposit: Observed and calculated structure factors

American Mineralogist, 74, 11-12, 1355-1359.

pp. 1-10

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR SCLARITE FRANKLIN,N.J. 

| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0 | 0 | 25 | 29 | 6 | 4 | 0 | 95 | -92 | -11 | 1 | 1 | 16 | 9 | -13 | 3 | 1 | 207 | -184 | -13 | 5 | 1 | 149 | 135 |
| 4 | 0 | 0 | 23 | 25 | 7 | 4 | 0 | 15 | -8 | -10 | 1 | 1 | 31 | 32 | -12 | 3 | 1 | 55 | 54 | -12 | 5 | 1 | 42 | -39 |
| 6 | 0 | 0 | 108 | -122 | 8 | 4 | 0 | 123 | -114 | -9 | 1 | 1 | 167 | 171 | -11 | 3 | 1 | 54 | -47 | -11 | 5 | 1 | 27 | 26 |
| 8 | 0 | 0 | 114 | -104 | 9 | 4 | 0 | 25 | 19 | -8 | 1 | 1 | 20 | 12 | -10 | 3 | 1 | 44 | -46 | -10 | 5 | 1 | 70 | 68 |
| 10 | 0 | 0 | 54 | -65 | 10 | 4 | 0 | 14 | -10 | -7 | 1 | 1 | 136 | -134 | -9 | 3 | 1 | 143 | -137 | -9 | 5 | 1 | 66 | 64 |
| 12 | 0 | 0 | 39 | 46 | 11 | 4 | 0 | 27 | -19 | -6 | 1 | 1 | 15 | -8 | -8 | 3 | 1 | 33 | 31 | -8 | 5 | 1 | 45 | -44 |
| 14 | 0 | 0 | 181 | -199 | 12 | 4 | 0 | 51 | 50 | -5 | 1 | 1 | 326 | -320 | -7 | 3 | 1 | 164 | 162 | -7 | 5 | 1 | 59 | -57 |
| 18 | 0 | 0 | 135 | -148 | 13 | 4 | 0 | 61 | -63 | -4 | 1 | 1 | 113 | -107 | -6 | 3 | 1 | 20 | 12 | -6 | 5 | 1 | 34 | 32 |
| 20 | 0 | 0 | 30 | 33 | 14 | 4 | 0 | 149 | -138 | -3 | 1 | 1 | 289 | -302 | -5 | 3 | 1 | 462 | 448 | -5 | 5 | 1 | 193 | -186 |
| 22 | 0 | 0 | 48 | 35 | 15 | 4 | 0 | 41 | 40 | -2 | 1 | 1 | 25 | 24 | -4 | 3 | 1 | 48 | -42 | -4 | 5 | 1 | 28 | 24 |
| 0 | 2 | 0 | 427 | -432 | 16 | 4 | 0 | 30 | -23 | -1 | 1 | 1 | 25 | 18 | -3 | 3 | 1 | 174 | 171 | -3 | 5 | 1 | 138 | -132 |
| 1 | 2 | 0 | 50 | 56 | 17 | 4 | 0 | 32 | -35 | 0 | 1 | 1 | 27 | 32 | -2 | 3 | 1 | 29 | -27 | -2 | 5 | 1 | 40 | 37 |
| 2 | 2 | 0 | 121 | -111 | 18 | 4 | 0 | 79 | -81 | 1 | 1 | 1 | 159 | -161 | -1 | 3 | 1 | 38 | 35 | -1 | 5 | 1 | 23 | -20 |
| 3 | 2 | 0 | 43 | -41 | 19 | 4 | 0 | 16 | 22 | 2 | 1 | 1 | 50 | 40 | 0 | 3 | 1 | 55 | 54 | 0 | 5 | 1 | 106 | -102 |
| 4 | 2 | 0 | 93 | -88 | 0 | 6 | 0 | 319 | -304 | 3 | 1 | 1 | 302 | 306 | 1 | 3 | 1 | 108 | 100 | 1 | 5 | 1 | 65 | -61 |
| 5 | 2 | 0 | 32 | 30 | 1 | 6 | 0 | 107 | 100 | 4 | 1 | 1 | 126 | -126 | 2 | 3 | 1 | 70 | -63 | 2 | 5 | 1 | 82 | 77 |
| 6 | 2 | 0 | 111 | 110 | 2 | 6 | 0 | 79 | -77 | 5 | 1 | 1 | 213 | -214 | 3 | 3 | 1 | 203 | -192 | 3 | 5 | 1 | 102 | 94 |
| 7 | 2 | 0 | 56 | -56 | 3 | 6 | 0 | 51 | -50 | 6 | 1 | 1 | 268 | 264 | 4 | 3 | 1 | 89 | 84 | 4 | 5 | 1 | 110 | -111 |
| 8 | 2 | 0 | 185 | 173 | 4 | 6 | 0 | 26 | 23 | 7 | 1 | 1 | 68 | 78 | 5 | 3 | 1 | 214 | 200 | 5 | 5 | 1 | 105 | -99 |
| 9 | 2 | 0 | 12 | -6 | 5 | 6 | 0 | 25 | 24 | 9 | 1 | 1 | 155 | 161 | 6 | 3 | 1 | 16 | -18 | 6 | 5 | 1 | 12 | -6 |
| 10 | 2 | 0 | 38 | -26 | 6 | 6 | 0 | 20 | 18 | 10 | 1 | 1 | 27 | -21 | 7 | 3 | 1 | 65 | -66 | 7 | 5 | 1 | 31 | 29 |
| 11 | 2 | 0 | 82 | -86 | 7 | 6 | 0 | 15 | -13 | 11 | 1 | 1 | 151 | 176 | 8 | 3 | 1 | 12 | -2 | 8 | 5 | 1 | 36 | -36 |
| 12 | 2 | 0 | 42 | -48 | 8 | 6 | 0 | 77 | 75 | 12 | 1 | 1 | 9 | -14 | 9 | 3 | 1 | 152 | -138 | 9 | 5 | 1 | 123 | 113 |
| 13 | 2 | 0 | 24 | 25 | 9 | 6 | 0 | 16 | -10 | 13 | 1 | 1 | 114 | 115 | 10 | 3 | 1 | 13 | -8 | 10 | 5 | 1 | 19 | 19 |
| 14 | 2 | 0 | 182 | 192 | 10 | 6 | 0 | 17 | -15 | 14 | 1 | 1 | 32 | 33 | 11 | 3 | 1 | 111 | -106 | 11 | 5 | 1 | 111 | 106 |
| 15 | 2 | 0 | 34 | -37 | 11 | 6 | 0 | 29 | -30 | 15 | 1 | 1 | 43 | 54 | 12 | 3 | 1 | 14 | -9 | 13 | 5 | 1 | 92 | 84 |
| 16 | 2 | 0 | 35 | 27 | 12 | 6 | 0 | 20 | 17 | 16 | 1 | 1 | 17 | -18 | 13 | 3 | 1 | 146 | -132 | 15 | 5 | 1 | 24 | 21 |
| 17 | 2 | 0 | 33 | 34 | 13 | 6 | 0 | 50 | 51 | 17 | 1 | 1 | 156 | -164 | 14 | 3 | 1 | 10 | -12 | 16 | 5 | 1 | 48 | -46 |
| 18 | 2 | 0 | 97 | 107 | -21 | 1 | 1 | 55 | 50 | 18 | 1 | 1 | 21 | 16 | 15 | 3 | 1 | 51 | -57 | -7 | 7 | 1 | 39 | 35 |
| 20 | 2 | 0 | 33 | -26 | -19 | 1 | 1 | 59 | 50 | 19 | 1 | 1 | 39 | 35 | 17 | 3 | 1 | 72 | 79 | -6 | 7 | 1 | 22 | 17 |
| 0 | 4 | 0 | 387 | 366 | -17 | 1 | 1 | 13 | 5 | 21 | 1 | 1 | 56 | -63 | 18 | 3 | 1 | 34 | -34 | -5 | 7 | 1 | 149 | 140 |
| 1 | 4 | 0 | 107 | -102 | -16 | 1 | 1 | 51 | -53 | -19 | 3 | 1 | 62 | -50 | 20 | 3 | 1 | 25 | 22 | -4 | 7 | 1 | 15 | -13 |
| 2 | 4 | 0 | 50 | 49 | -15 | 1 | 1 | 49 | -53 | -17 | 3 | 1 | 53 | -49 | -17 | 5 | 1 | 12 | -13 | -3 | 7 | 1 | 57 | 55 |
| 3 | 4 | 0 | 72 | 72 | -14 | 1 | 1 | 32 | 29 | -16 | 3 | 1 | 16 | 19 | -16 | 5 | 1 | 15 | -7 | -2 | 7 | 1 | 16 | -9 |
| 4 | 4 | 0 | 53 | 52 | -13 | 1 | 1 | 253 | 259 | -15 | 3 | 1 | 46 | 46 | -15 | 5 | 1 | 18 | -18 | -1 | 7 | 1 | 27 | 26 |
| 5 | 4 | 0 | 12 | 5 | -12 | 1 | 1 | 46 | -46 | -14 | 3 | 1 | 51 | -47 | -14 | 5 | 1 | 67 | 64 | 0 | 7 | 1 | 33 | 33 |

| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 7 | 1 | 38 | -37 | -11 | 2 | 2 | 44 | -41 | -13 | 4 | 2 | 54 | 51 | -6 | 6 | 2 | 59 | 57 | -2 | 1 | 3 | 9 | 2 |
| 3 | 7 | 1 | 41 | -41 | -10 | 2 | 2 | 300 | 283 | -12 | 4 | 2 | 19 | 17 | -5 | 6 | 2 | 31 | -31 | -1 | 1 | 3 | 140 | -141 |
| 4 | 7 | 1 | 94 | 93 | -9 | 2 | 2 | 91 | -84 | -11 | 4 | 2 | 122 | -117 | -4 | 6 | 2 | 53 | 50 | 0 | 1 | 3 | 74 | 75 |
| 5 | 7 | 1 | 32 | 29 | -8 | 2 | 2 | 24 | 13 | -10 | 4 | 2 | 213 | -198 | -3 | 6 | 2 | 11 | 9 | 1 | 1 | 3 | 196 | -212 |
| 6 | 7 | 1 | 79 | -76 | -7 | 2 | 2 | 71 | 72 | -9 | 4 | 2 | 81 | 80 | -2 | 6 | 2 | 10 | 3 | 2 | 1 | 3 | 22 | -15 |
| -22 | 0 | 2 | 31 | -28 | -6 | 2 | 2 | 206 | 203 | -8 | 4 | 2 | 33 | -24 | -1 | 6 | 2 | 44 | 43 | 3 | 1 | 3 | 261 | -263 |
| -20 | 0 | 2 | 33 | 28 | -5 | 2 | 2 | 32 | -30 | -7 | 4 | 2 | 33 | -30 | 0 | 6 | 2 | 127 | 120 | 4 | 1 | 3 | 36 | -38 |
| -18 | 0 | 2 | 137 | 115 | -4 | 2 | 2 | 55 | 43 | -6 | 4 | 2 | 100 | -97 | 1 | 6 | 2 | 34 | 29 | 5 | 1 | 3 | 89 | -103 |
| -16 | 0 | 2 | 106 | 108 | -3 | 2 | 2 | 28 | -20 | -5 | 4 | 2 | 34 | 34 | 2 | 6 | 2 | 28 | 27 | 6 | 1 | 3 | 48 | -51 |
| -14 | 0 | 2 | 90 | 78 | -2 | 2 | 2 | 42 | 45 | -4 | 4 | 2 | 29 | -27 | 3 | 6 | 2 | 68 | -65 | 7 | 1 | 3 | 213 | 223 |
| -12 | 0 | 2 | 25 | 27 | -1 | 2 | 2 | 75 | 65 | -3 | 4 | 2 | 55 | -52 | 4 | 6 | 2 | 106 | -99 | 8 | 1 | 3 | 31 | -31 |
| -10 | 0 | 2 | 467 | -478 | 0 | 2 | 2 | 172 | 165 | -2 | 4 | 2 | 17 | -16 | 5 | 6 | 2 | 69 | 67 | 9 | 1 | 3 | 223 | -247 |
| -8 | 0 | 2 | 30 | 24 | 1 | 2 | 2 | 207 | 197 | -1 | 4 | 2 | 11 | 7 | 6 | 6 | 2 | 86 | -85 | 10 | 1 | 3 | 12 | -9 |
| -6 | 0 | 2 | 215 | -229 | 2 | 2 | 2 | 53 | 50 | 0 | 4 | 2 | 128 | -117 | 7 | 6 | 2 | 78 | -78 | 11 | 1 | 3 | 33 | 41 |
| -4 | 0 | 2 | 89 | -97 | 3 | 2 | 2 | 70 | -67 | 1 | 4 | 2 | 66 | 59 | 8 | 6 | 2 | 140 | -137 | 12 | 1 | 3 | 21 | -23 |
| -2 | 0 | 2 | 38 | -49 | 4 | 2 | 2 | 372 | -362 | 2 | 4 | 2 | 63 | -60 | 9 | 6 | 2 | 48 | 46 | 13 | 1 | 3 | 55 | -69 |
| 0 | 0 | 2 | 294 | -224 | 5 | 2 | 2 | 71 | 69 | 3 | 4 | 2 | 44 | 46 | 10 | 6 | 2 | 13 | -13 | 14 | 1 | 3 | 22 | 21 |
| 2 | 0 | 2 | 163 | -192 | 6 | 2 | 2 | 51 | -46 | 4 | 4 | 2 | 232 | 228 | 11 | 6 | 2 | 22 | -23 | 15 | 1 | 3 | 61 | 74 |
| 4 | 0 | 2 | 279 | 326 | 7 | 2 | 2 | 49 | -52 | 5 | 4 | 2 | 94 | -89 | 12 | 6 | 2 | 17 | 13 | 17 | 1 | 3 | 168 | 158 |
| 6 | 0 | 2 | 71 | 78 | 8 | 2 | 2 | 296 | -301 | 6 | 4 | 2 | 63 | 58 | 13 | 6 | 2 | 18 | -11 | 18 | 1 | 3 | 36 | 35 |
| 8 | 0 | 2 | 374 | 412 | 9 | 2 | 2 | 40 | 45 | 7 | 4 | 2 | 72 | 70 | -21 | 1 | 3 | 36 | -20 | 19 | 1 | 3 | 79 | 89 |
| 10 | 0 | 2 | 47 | -53 | 11 | 2 | 2 | 20 | 18 | 8 | 4 | 2 | 223 | 213 | -20 | 1 | 3 | 31 | -23 | -20 | 3 | 3 | 26 | 26 |
| 12 | 0 | 2 | 44 | 52 | 12 | 2 | 2 | 103 | 95 | 9 | 4 | 2 | 60 | -59 | -19 | 1 | 3 | 128 | -128 | -19 | 3 | 3 | 96 | 98 |
| 14 | 0 | 2 | 29 | 15 | 13 | 2 | 2 | 12 | -6 | 10 | 4 | 2 | 9 | -6 | -17 | 1 | 3 | 21 | 12 | -18 | 3 | 3 | 29 | -29 |
| 18 | 0 | 2 | 48 | -54 | 14 | 2 | 2 | 24 | -15 | 11 | 4 | 2 | 47 | 47 | -16 | 1 | 3 | 51 | 52 | -17 | 3 | 3 | 32 | -31 |
| 22 | 0 | 2 | 124 | -128 | 15 | 2 | 2 | 19 | -19 | 12 | 4 | 2 | 62 | -57 | -15 | 1 | 3 | 87 | 84 | -16 | 3 | 3 | 20 | 19 |
| -21 | 2 | 2 | 25 | -18 | 16 | 2 | 2 | 13 | -15 | 13 | 4 | 2 | 26 | 15 | -13 | 1 | 3 | 30 | 35 | -15 | 3 | 3 | 96 | -86 |
| -20 | 2 | 2 | 32 | -26 | 17 | 2 | 2 | 19 | 19 | 14 | 4 | 2 | 14 | 6 | -12 | 1 | 3 | 16 | 10 | -13 | 3 | 3 | 17 | -16 |
| -19 | 2 | 2 | 11 | -9 | 18 | 2 | 2 | 36 | 40 | 18 | 4 | 2 | 38 | -36 | -11 | 1 | 3 | 20 | -20 | -12 | 3 | 3 | 34 | 34 |
| -18 | 2 | 2 | 93 | -88 | 19 | 2 | 2 | 23 | -17 | -13 | 6 | 2 | 14 | -12 | -10 | 1 | 3 | 22 | -18 | -11 | 3 | 3 | 59 | -54 |
| -17 | 2 | 2 | 31 | -27 | 21 | 2 | 2 | 24 | 15 | -12 | 6 | 2 | 19 | 15 | -9 | 1 | 3 | 199 | 206 | -10 | 3 | 3 | 42 | -41 |
| -16 | 2 | 2 | 105 | -111 | -18 | 4 | 2 | 95 | 85 | -11 | 6 | 2 | 43 | 44 | -8 | 1 | 3 | 16 | 7 | -9 | 3 | 3 | 139 | -134 |
| -15 | 2 | 2 | 29 | 31 | -17 | 4 | 2 | 15 | -13 | -10 | 6 | 2 | 177 | 171 | -7 | 1 | 3 | 13 | 7 | -8 | 3 | 3 | 68 | 66 |
| -14 | 2 | 2 | 64 | -60 | -16 | 4 | 2 | 84 | 79 | -9 | 6 | 2 | 95 | -94 | -5 | 1 | 3 | 372 | 374 | -7 | 3 | 3 | 54 | 51 |
| -13 | 2 | 2 | 12 | -6 | -15 | 4 | 2 | 21 | 16 | -8 | 6 | 2 | 28 | 27 | -4 | 1 | 3 | 178 | -163 | -6 | 3 | 3 | 120 | -119 |
| -12 | 2 | 2 | 54 | -56 | -14 | 4 | 2 | 67 | 60 | -7 | 6 | 2 | 48 | 46 | -3 | 1 | 3 | 84 | -83 | -5 | 3 | 3 | 472 | -465 |

| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -4 | 3 | 3 | 77 | 76 | -2 | 5 | 3 | 33 | 33 | -12 | 0 | 4 | 116 | 121 | 0 | 2 | 4 | 126 | -124 | -1 | 4 | 4 | 136 | 134 |
| -3 | 3 | 3 | 48 | -46 | -1 | 5 | 3 | 94 | -90 | -10 | 0 | 4 | 406 | 430 | 1 | 2 | 4 | 101 | -101 | 0 | 4 | 4 | 18 | 11 |
| -2 | 3 | 3 | 43 | -45 | 1 | 5 | 3 | 100 | -96 | -8 | 0 | 4 | 176 | 184 | 2 | 2 | 4 | 21 | 3 | 1 | 4 | 4 | 114 | -116 |
| -1 | 3 | 3 | 147 | 141 | 2 | 5 | 3 | 15 | 12 | -6 | 0 | 4 | 150 | -170 | 3 | 2 | 4 | 41 | -43 | 2 | 4 | 4 | 42 | 40 |
| 0 | 3 | 3 | 37 | 35 | 3 | 5 | 3 | 175 | -168 | -4 | 0 | 4 | 70 | -66 | 4 | 2 | 4 | 167 | 158 | 3 | 4 | 4 | 36 | -33 |
| 1 | 3 | 3 | 195 | 197 | 4 | 5 | 3 | 21 | 18 | -2 | 0 | 4 | 424 | -390 | 5 | 2 | 4 | 18 | 13 | 4 | 4 | 4 | 146 | -142 |
| 2 | 3 | 3 | 16 | -9 | 5 | 5 | 3 | 30 | -26 | 0 | 0 | 4 | 121 | 107 | 6 | 2 | 4 | 202 | 207 | 5 | 4 | 4 | 23 | -19 |
| 3 | 3 | 3 | 177 | 173 | 6 | 5 | 3 | 77 | 78 | 2 | 0 | 4 | 119 | -121 | 7 | 2 | 4 | 21 | 10 | 6 | 4 | 4 | 94 | -94 |
| 4 | 3 | 3 | 22 | 23 | 7 | 5 | 3 | 88 | 84 | 4 | 0 | 4 | 244 | -265 | 8 | 2 | 4 | 65 | 57 | 7 | 4 | 4 | 25 | 22 |
| 5 | 3 | 3 | 114 | 114 | 8 | 5 | 3 | 94 | -95 | 6 | 0 | 4 | 141 | -152 | 9 | 2 | 4 | 18 | 19 | 8 | 4 | 4 | 65 | -60 |
| 6 | 3 | 3 | 51 | -50 | 9 | 5 | 3 | 119 | -113 | 8 | 0 | 4 | 54 | -55 | 10 | 2 | 4 | 38 | 40 | 9 | 4 | 4 | 58 | -60 |
| 7 | 3 | 3 | 31 | -29 | 10 | 5 | 3 | 53 | 55 | 10 | 0 | 4 | 49 | -61 | 11 | 2 | 4 | 23 | -25 | 10 | 4 | 4 | 12 | 4 |
| 8 | 3 | 3 | 77 | 77 | 11 | 5 | 3 | 16 | -12 | 12 | 0 | 4 | 234 | 249 | 12 | 2 | 4 | 320 | -329 | 11 | 4 | 4 | 74 | 78 |
| 9 | 3 | 3 | 170 | 163 | 12 | 5 | 3 | 46 | -46 | 14 | 0 | 4 | 49 | 48 | 13 | 2 | 4 | 70 | 78 | 12 | 4 | 4 | 240 | 229 |
| 10 | 3 | 3 | 55 | -54 | 13 | 5 | 3 | 35 | -31 | 16 | 0 | 4 | 70 | 83 | 14 | 2 | 4 | 44 | -40 | 13 | 4 | 4 | 27 | -29 |
| 11 | 3 | 3 | 20 | -21 | 15 | 5 | 3 | 35 | 31 | 20 | 0 | 4 | 35 | -26 | 15 | 2 | 4 | 33 | -35 | 14 | 4 | 4 | 55 | 49 |
| 12 | 3 | 3 | 49 | 51 | -8 | 7 | 3 | 39 | 40 | -21 | 2 | 4 | 26 | 15 | 16 | 2 | 4 | 69 | -79 | 15 | 4 | 4 | 22 | 18 |
| 13 | 3 | 3 | 59 | 61 | -7 | 7 | 3 | 25 | -25 | -20 | 2 | 4 | 72 | -81 | 18 | 2 | 4 | 12 | 11 | 16 | 4 | 4 | 47 | 44 |
| 14 | 3 | 3 | 13 | -17 | -6 | 7 | 3 | 80 | -79 | -19 | 2 | 4 | 28 | 27 | 19 | 2 | 4 | 15 | 8 | 17 | 4 | 4 | 15 | -18 |
| 15 | 3 | 3 | 63 | -66 | -5 | 7 | 3 | 116 | -111 | -18 | 2 | 4 | 93 | 103 | 20 | 2 | 4 | 38 | 21 | -13 | 6 | 4 | 15 | 1 |
| 17 | 3 | 3 | 119 | -105 | -4 | 7 | 3 | 82 | 79 | -16 | 2 | 4 | 48 | -49 | -19 | 4 | 4 | 49 | -50 | -12 | 6 | 4 | 58 | -55 |
| 19 | 3 | 3 | 59 | -61 | -3 | 7 | 3 | 29 | -28 | -15 | 2 | 4 | 28 | 27 | -18 | 4 | 4 | 59 | -60 | -11 | 6 | 4 | 36 | -34 |
| 20 | 3 | 3 | 12 | 9 | -2 | 7 | 3 | 32 | -29 | -14 | 2 | 4 | 27 | -23 | -17 | 4 | 4 | 35 | 33 | -10 | 6 | 4 | 189 | -188 |
| -16 | 5 | 3 | 33 | -31 | -1 | 7 | 3 | 70 | 69 | -13 | 2 | 4 | 11 | 4 | -15 | 4 | 4 | 37 | -37 | -8 | 6 | 4 | 82 | -80 |
| -15 | 5 | 3 | 78 | 72 | 0 | 7 | 3 | 25 | -24 | -12 | 2 | 4 | 133 | -132 | -14 | 4 | 4 | 31 | 27 | -7 | 6 | 4 | 36 | 37 |
| -14 | 5 | 3 | 36 | -27 | 1 | 7 | 3 | 66 | 63 | -11 | 2 | 4 | 42 | -38 | -13 | 4 | 4 | 21 | 22 | -6 | 6 | 4 | 58 | 58 |
| -13 | 5 | 3 | 19 | 14 | 3 | 7 | 3 | 105 | 101 | -10 | 2 | 4 | 206 | -190 | -12 | 4 | 4 | 74 | 72 | -5 | 6 | 4 | 60 | -58 |
| -12 | 5 | 3 | 17 | -17 | 4 | 7 | 3 | 11 | 1 | -9 | 2 | 4 | 40 | -41 | -11 | 4 | 4 | 24 | -25 | -4 | 6 | 4 | 45 | 45 |
| -11 | 5 | 3 | 18 | 14 | 5 | 7 | 3 | 28 | 26 | -8 | 2 | 4 | 172 | -172 | -10 | 4 | 4 | 201 | 191 | -3 | 6 | 4 | 64 | 63 |
| -10 | 5 | 3 | 32 | 30 | 6 | 7 | 3 | 20 | -19 | -7 | 2 | 4 | 66 | 66 | -8 | 4 | 4 | 90 | 86 | -2 | 6 | 4 | 132 | 128 |
| -9 | 5 | 3 | 90 | 86 | 7 | 7 | 3 | 38 | -36 | -6 | 2 | 4 | 226 | 222 | -7 | 4 | 4 | 16 | -16 | -1 | 6 | 4 | 63 | -61 |
| -8 | 5 | 3 | 68 | -66 | -22 | 0 | 4 | 51 | -46 | -5 | 2 | 4 | 104 | -99 | -6 | 4 | 4 | 108 | -106 | 0 | 6 | 4 | 19 | -18 |
| -7 | 5 | 3 | 58 | 55 | -20 | 0 | 4 | 67 | 75 | -4 | 2 | 4 | 54 | -53 | -5 | 4 | 4 | 80 | 78 | 2 | 6 | 4 | 33 | 29 |
| -6 | 5 | 3 | 101 | 100 | -18 | 0 | 4 | 71 | -80 | -3 | 2 | 4 | 33 | 28 | -4 | 4 | 4 | 25 | -24 | 3 | 6 | 4 | 14 | 13 |
| -5 | 5 | 3 | 176 | 171 | -16 | 0 | 4 | 56 | 65 | -2 | 2 | 4 | 364 | 377 | -3 | 4 | 4 | 94 | -95 | 4 | 6 | 4 | 106 | 103 |
| -3 | 5 | 3 | 9 | 5 | -14 | 0 | 4 | 13 | -10 | -1 | 2 | 4 | 35 | -35 | -2 | 4 | 4 | 224 | -221 | 5 | 6 | 4 | 12 | 8 |

| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6 | 4 | 66 | 64 | 13 | 1 | 5 | 93 | -106 | 12 | 3 | 5 | 46 | 49 | -7 | 7 | 5 | 60 | -59 | -14 | 2 | 6 | 82 | 85 |
| 7 | 6 | 4 | 13 | 12 | 15 | 1 | 5 | 55 | 66 | 13 | 3 | 5 | 87 | 89 | -6 | 7 | 5 | 23 | 22 | -13 | 2 | 6 | 41 | -41 |
| 8 | 6 | 4 | 41 | 40 | 17 | 1 | 5 | 108 | -113 | 14 | 3 | 5 | 36 | -36 | -3 | 7 | 5 | 33 | 32 | -12 | 2 | 6 | 110 | -111 |
| 9 | 6 | 4 | 30 | 30 | 18 | 1 | 5 | 41 | -31 | 15 | 3 | 5 | 62 | -68 | -2 | 7 | 5 | 76 | -74 | -11 | 2 | 6 | 45 | 45 |
| 11 | 6 | 4 | 42 | -43 | 19 | 1 | 5 | 29 | 23 | 16 | 3 | 5 | 50 | 52 | -1 | 7 | 5 | 102 | -100 | -10 | 2 | 6 | 170 | 167 |
| 12 | 6 | 4 | 106 | -102 | 21 | 1 | 5 | 36 | 20 | 17 | 3 | 5 | 105 | 104 | 0 | 7 | 5 | 59 | 55 | -9 | 2 | 6 | 60 | 59 |
| -22 | 1 | 5 | 23 | -18 | -18 | 3 | 5 | 28 | -27 | 18 | 3 | 5 | 28 | -26 | 1 | 7 | 5 | 61 | -60 | -8 | 2 | 6 | 39 | -37 |
| -21 | 1 | 5 | 52 | 51 | -17 | 3 | 5 | 20 | 9 | 19 | 3 | 5 | 35 | 22 | 2 | 7 | 5 | 59 | -57 | -7 | 2 | 6 | 51 | 51 |
| -19 | 1 | 5 | 47 | -46 | -16 | 3 | 5 | 51 | 52 | -16 | 5 | 5 | 41 | -40 | 3 | 7 | 5 | 88 | -86 | -6 | 2 | 6 | 169 | -175 |
| -18 | 1 | 5 | 27 | 25 | -15 | 3 | 5 | 306 | 302 | -15 | 5 | 5 | 142 | -134 | 4 | 7 | 5 | 31 | 30 | -5 | 2 | 6 | 10 | 2 |
| -17 | 1 | 5 | 19 | -5 | -14 | 3 | 5 | 64 | -64 | -14 | 5 | 5 | 50 | 50 | -22 | 0 | 6 | 57 | -53 | -4 | 2 | 6 | 202 | -217 |
| -16 | 1 | 5 | 15 | -15 | -13 | 3 | 5 | 65 | 60 | -13 | 5 | 5 | 51 | -47 | -20 | 0 | 6 | 163 | -155 | -3 | 2 | 6 | 37 | -39 |
| -15 | 1 | 5 | 241 | -252 | -12 | 3 | 5 | 40 | 38 | -12 | 5 | 5 | 25 | -25 | -18 | 0 | 6 | 75 | -80 | -2 | 2 | 6 | 221 | -238 |
| -13 | 1 | 5 | 36 | -33 | -11 | 3 | 5 | 14 | 13 | -10 | 5 | 5 | 24 | -23 | -16 | 0 | 6 | 15 | 8 | -1 | 2 | 6 | 9 | 3 |
| -11 | 1 | 5 | 33 | -38 | -10 | 3 | 5 | 22 | -21 | -7 | 5 | 5 | 96 | 96 | -14 | 0 | 6 | 99 | -101 | 0 | 2 | 6 | 167 | -180 |
| -10 | 1 | 5 | 17 | 16 | -9 | 3 | 5 | 59 | -63 | -6 | 5 | 5 | 31 | -30 | -12 | 0 | 6 | 154 | 160 | 1 | 2 | 6 | 76 | 83 |
| -9 | 1 | 5 | 51 | 54 | -8 | 3 | 5 | 17 | 14 | -5 | 5 | 5 | 37 | -37 | -10 | 0 | 6 | 185 | -195 | 2 | 2 | 6 | 383 | 403 |
| -8 | 1 | 5 | 28 | -25 | -7 | 3 | 5 | 67 | -63 | -4 | 5 | 5 | 84 | -86 | -8 | 0 | 6 | 15 | -11 | 3 | 2 | 6 | 115 | -115 |
| -7 | 1 | 5 | 156 | 149 | -6 | 3 | 5 | 16 | -11 | -3 | 5 | 5 | 47 | -46 | -6 | 0 | 6 | 190 | 196 | 4 | 2 | 6 | 83 | -84 |
| -6 | 1 | 5 | 20 | -14 | -5 | 3 | 5 | 21 | -18 | -2 | 5 | 5 | 68 | 66 | -4 | 0 | 6 | 314 | 279 | 5 | 2 | 6 | 49 | 48 |
| -5 | 1 | 5 | 25 | -4 | -4 | 3 | 5 | 78 | 82 | -1 | 5 | 5 | 200 | 197 | -2 | 0 | 6 | 246 | 207 | 6 | 2 | 6 | 160 | 161 |
| -4 | 1 | 5 | 180 | 177 | -3 | 3 | 5 | 42 | 41 | 0 | 5 | 5 | 86 | -81 | 0 | 0 | 6 | 293 | 244 | 7 | 2 | 6 | 27 | -27 |
| -3 | 1 | 5 | 201 | -196 | -2 | 3 | 5 | 93 | -109 | 1 | 5 | 5 | 103 | 102 | 2 | 0 | 6 | 97 | -102 | 8 | 2 | 6 | 36 | 31 |
| -2 | 1 | 5 | 14 | 13 | -1 | 3 | 5 | 259 | -275 | 2 | 5 | 5 | 72 | 74 | 4 | 0 | 6 | 34 | 36 | 10 | 2 | 6 | 58 | 65 |
| -1 | 1 | 5 | 415 | 440 | 0 | 3 | 5 | 90 | 92 | 3 | 5 | 5 | 142 | 143 | 6 | 0 | 6 | 149 | -167 | 12 | 2 | 6 | 116 | 109 |
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| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
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| -1 | 2 | 12 | 17 | -12 | 9 | 4 | 12 | 41 | -41 | -13 | 3 | 13 | 115 | 128 | 1 | 5 | 13 | 96 | 107 | -3 | 2 | 14 | 16 | 11 |
| 0 | 2 | 12 | 86 | 91 | 10 | 4 | 12 | 69 | -68 | -11 | 3 | 13 | 115 | 120 | 2 | 5 | 13 | 15 | 8 | -2 | 2 | 14 | 38 | -39 |
| 1 | 2 | 12 | 32 | 35 | -6 | 6 | 12 | 57 | -62 | -10 | 3 | 13 | 30 | -32 | 3 | 5 | 13 | 67 | 71 | 0 | 2 | 14 | 236 | -244 |
| 2 | 2 | 12 | 91 | 95 | 0 | 6 | 12 | 83 | 91 | -9 | 3 | 13 | 45 | -47 | 4 | 5 | 13 | 19 | -16 | 1 | 2 | 14 | 13 | 8 |
| 3 | 2 | 12 | 45 | -44 | 2 | 6 | 12 | 32 | 29 | -8 | 3 | 13 | 61 | 65 | 5 | 5 | 13 | 66 | 72 | 2 | 2 | 14 | 53 | -63 |
| 4 | 2 | 12 | 46 | -43 | 3 | 6 | 12 | 52 | -55 | -7 | 3 | 13 | 93 | 103 | 6 | 5 | 13 | 35 | 34 | 4 | 2 | 14 | 54 | 60 |
| 5 | 2 | 12 | 19 | 16 | 4 | 6 | 12 | 59 | -61 | -6 | 3 | 13 | 54 | -57 | 7 | 5 | 13 | 58 | 60 | 5 | 2 | 14 | 28 | 27 |
| 6 | 2 | 12 | 181 | 189 | -17 | 1 | 13 | 31 | 31 | -5 | 3 | 13 | 144 | -160 | 8 | 5 | 13 | 45 | -46 | 6 | 2 | 14 | 58 | 59 |
| 8 | 2 | 12 | 32 | 29 | -16 | 1 | 13 | 24 | 30 | -4 | 3 | 13 | 68 | 78 | -18 | 0 | 14 | 116 | -125 | 7 | 2 | 14 | 23 | 6 |
| 9 | 2 | 12 | 26 | 23 | -15 | 1 | 13 | 31 | -31 | -3 | 3 | 13 | 49 | 52 | -16 | 0 | 14 | 29 | -35 | 8 | 2 | 14 | 9 | -10 |
| 10 | 2 | 12 | 83 | 87 | -14 | 1 | 13 | 31 | -44 | -2 | 3 | 13 | 17 | -15 | -14 | 0 | 14 | 47 | -47 | 9 | 2 | 14 | 19 | 14 |
| 11 | 2 | 12 | 20 | -20 | -13 | 1 | 13 | 159 | -188 | -1 | 3 | 13 | 72 | 84 | -12 | 0 | 14 | 51 | -62 | 10 | 2 | 14 | 95 | 98 |
| 14 | 2 | 12 | 102 | -96 | -12 | 1 | 13 | 23 | -28 | 1 | 3 | 13 | 72 | -81 | -10 | 0 | 14 | 82 | 86 | 11 | 2 | 14 | 35 | -35 |
| 15 | 2 | 12 | 22 | -23 | -11 | 1 | 13 | 160 | -166 | 2 | 3 | 13 | 15 | -19 | -8 | 0 | 14 | 82 | -84 | 12 | 2 | 14 | 48 | -49 |
| 16 | 2 | 12 | 86 | -84 | -10 | 1 | 13 | 15 | 13 | 3 | 3 | 13 | 141 | -150 | -6 | 0 | 14 | 237 | -199 | 13 | 2 | 14 | 31 | 29 |
| -15 | 4 | 12 | 28 | -27 | -9 | 1 | 13 | 49 | 40 | 4 | 3 | 13 | 20 | 15 | -4 | 0 | 14 | 253 | 207 | 14 | 2 | 14 | 113 | 108 |
| -13 | 4 | 12 | 31 | 33 | -8 | 1 | 13 | 30 | -24 | 5 | 3 | 13 | 106 | -113 | -2 | 0 | 14 | 88 | 85 | -12 | 4 | 14 | 18 | -27 |
| -12 | 4 | 12 | 44 | 45 | -7 | 1 | 13 | 88 | -64 | 6 | 3 | 13 | 42 | -46 | 0 | 0 | 14 | 267 | 223 | -10 | 4 | 14 | 26 | 23 |
| -11 | 4 | 12 | 69 | -74 | -5 | 1 | 13 | 201 | 158 | 7 | 3 | 13 | 65 | -67 | 2 | 0 | 14 | 82 | 94 | -8 | 4 | 14 | 30 | -40 |
| -9 | 4 | 12 | 67 | 74 | -3 | 1 | 13 | 95 | -71 | 8 | 3 | 13 | 43 | 44 | 4 | 0 | 14 | 97 | -105 | -7 | 4 | 14 | 61 | -66 |
| -8 | 4 | 12 | 195 | 215 | -2 | 1 | 13 | 21 | -17 | 9 | 3 | 13 | 164 | 162 | 6 | 0 | 14 | 72 | -72 | -6 | 4 | 14 | 51 | -55 |
| -7 | 4 | 12 | 12 | 14 | -1 | 1 | 13 | 37 | 23 | 10 | 3 | 13 | 39 | -39 | 8 | 0 | 14 | 35 | -38 | -5 | 4 | 14 | 37 | 39 |
| -6 | 4 | 12 | 73 | 88 | 0 | 1 | 13 | 23 | -17 | 11 | 3 | 13 | 24 | 15 | 10 | 0 | 14 | 64 | -65 | -4 | 4 | 14 | 108 | 121 |
| -5 | 4 | 12 | 36 | 36 | 1 | 1 | 13 | 142 | 150 | 12 | 3 | 13 | 17 | 20 | 12 | 0 | 14 | 27 | 28 | -3 | 4 | 14 | 70 | -80 |

| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -2 | 4 | 14 | 72 | 84 | 13 | 1 | 15 | 31 | -30 | -12 | 0 | 16 | 49 | 43 | -6 | 4 | 16 | 10 | -2 | -8 | 3 | 17 | 21 | 19 |
| -1 | 4 | 14 | 69 | 77 | -14 | 3 | 15 | 42 | -46 | -10 | 0 | 16 | 203 | -174 | -5 | 4 | 16 | 20 | -23 | -7 | 3 | 17 | 48 | -59 |
| 0 | 4 | 14 | 147 | 159 | -13 | 3 | 15 | 117 | -133 | -8 | 0 | 16 | 70 | -71 | -4 | 4 | 16 | 60 | -75 | -6 | 3 | 17 | 30 | -27 |
| 1 | 4 | 14 | 33 | -32 | -12 | 3 | 15 | 18 | 15 | -6 | 0 | 16 | 31 | 33 | -3 | 4 | 16 | 11 | -7 | -5 | 3 | 17 | 89 | -92 |
| 2 | 4 | 14 | 76 | 89 | -11 | 3 | 15 | 59 | -71 | -4 | 0 | 16 | 22 | -27 | -2 | 4 | 16 | 57 | -61 | -4 | 3 | 17 | 14 | -12 |
| 4 | 4 | 14 | 58 | -64 | -9 | 3 | 15 | 51 | 61 | -2 | 0 | 16 | 79 | -64 | 0 | 4 | 16 | 24 | 24 | -1 | 3 | 17 | 113 | 131 |
| 5 | 4 | 14 | 31 | 34 | -7 | 3 | 15 | 72 | 73 | 0 | 0 | 16 | 12 | -13 | 1 | 4 | 16 | 33 | -33 | 1 | 3 | 17 | 107 | 114 |
| 6 | 4 | 14 | 40 | -39 | -6 | 3 | 15 | 22 | -17 | 2 | 0 | 16 | 41 | -34 | 2 | 4 | 16 | 27 | -26 | 2 | 3 | 17 | 24 | -16 |
| 7 | 4 | 14 | 43 | 40 | -5 | 3 | 15 | 120 | 141 | 4 | 0 | 16 | 218 | 224 | 3 | 4 | 16 | 45 | 47 | 3 | 3 | 17 | 16 | 20 |
| 8 | 4 | 14 | 16 | -19 | -4 | 3 | 15 | 31 | 31 | 6 | 0 | 16 | 42 | 45 | 4 | 4 | 16 | 136 | 147 | 4 | 3 | 17 | 28 | 26 |
| 9 | 4 | 14 | 28 | -30 | -3 | 3 | 15 | 129 | 141 | 8 | 0 | 16 | 47 | 44 | 5 | 4 | 16 | 65 | -67 | 5 | 3 | 17 | 49 | 49 |
| 10 | 4 | 14 | 57 | -56 | -2 | 3 | 15 | 53 | -58 | 12 | 0 | 16 | 41 | -36 | 6 | 4 | 16 | 77 | 83 | 6 | 3 | 17 | 34 | -33 |
| -17 | 1 | 15 | 72 | 77 | -1 | 3 | 15 | 116 | -126 | -15 | 2 | 16 | 25 | 30 | 7 | 4 | 16 | 17 | 9 | 7 | 3 | 17 | 48 | -49 |
| -16 | 1 | 15 | 20 | -23 | 0 | 3 | 15 | 54 | 58 | -14 | 2 | 16 | 55 | 59 | -13 | 1 | 17 | 75 | 68 | 8 | 3 | 17 | 32 | 31 |
| -15 | 1 | 15 | 41 | -46 | 1 | 3 | 15 | 54 | 58 | -13 | 2 | 16 | 26 | -28 | -12 | 1 | 17 | 15 | -16 | -12 | 0 | 18 | 128 | 114 |
| -13 | 1 | 15 | 115 | 121 | 2 | 3 | 15 | 28 | -27 | -11 | 2 | 16 | 18 | 14 | -11 | 1 | 17 | 51 | -41 | -10 | 0 | 18 | 82 | 84 |
| -12 | 1 | 15 | 31 | 34 | 3 | 3 | 15 | 55 | -58 | -10 | 2 | 16 | 163 | 150 | -10 | 1 | 17 | 37 | 34 | -8 | 0 | 18 | 135 | 118 |
| -11 | 1 | 15 | 47 | 56 | 4 | 3 | 15 | 43 | 44 | -8 | 2 | 16 | 56 | 59 | -9 | 1 | 17 | 201 | 177 | -6 | 0 | 18 | 236 | -207 |
| -10 | 1 | 15 | 42 | 39 | 5 | 3 | 15 | 12 | 4 | -6 | 2 | 16 | 22 | 9 | -8 | 1 | 17 | 43 | -37 | -4 | 0 | 18 | 23 | -29 |
| -9 | 1 | 15 | 65 | -63 | 6 | 3 | 15 | 10 | -9 | -5 | 2 | 16 | 20 | -11 | -7 | 1 | 17 | 47 | 49 | -2 | 0 | 18 | 109 | -89 |
| -7 | 1 | 15 | 143 | -113 | 7 | 3 | 15 | 30 | -26 | -4 | 2 | 16 | 93 | 97 | -6 | 1 | 17 | 31 | 25 | 0 | 0 | 18 | 22 | -24 |
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| -5 | 1 | 15 | 159 | -142 | 11 | 3 | 15 | 78 | -75 | -2 | 2 | 16 | 98 | 86 | -4 | 1 | 17 | 16 | -12 | 6 | 0 | 18 | 78 | -79 |
| -4 | 1 | 15 | 46 | 41 | -7 | 5 | 15 | 57 | -61 | -1 | 2 | 16 | 26 | -22 | -3 | 1 | 17 | 13 | 20 | 8 | 0 | 18 | 80 | 83 |
| -3 | 1 | 15 | 223 | -183 | -6 | 5 | 15 | 21 | 23 | 0 | 2 | 16 | 65 | -60 | -2 | 1 | 17 | 26 | 21 | -11 | 2 | 18 | 41 | 40 |
| -2 | 1 | 15 | 12 | 2 | -5 | 5 | 15 | 86 | -103 | 1 | 2 | 16 | 43 | 45 | -1 | 1 | 17 | 160 | -153 | -10 | 2 | 18 | 64 | -68 |
| -1 | 1 | 15 | 117 | 94 | -4 | 5 | 15 | 34 | -33 | 2 | 2 | 16 | 55 | 57 | 0 | 1 | 17 | 23 | 20 | -9 | 2 | 18 | 43 | -36 |
| 0 | 1 | 15 | 80 | -71 | -3 | 5 | 15 | 75 | -85 | 3 | 2 | 16 | 41 | -41 | 1 | 1 | 17 | 161 | -152 | -8 | 2 | 18 | 108 | -90 |
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| 3 | 1 | 15 | 40 | 39 | -1 | 5 | 15 | 30 | 33 | 5 | 2 | 16 | 17 | -17 | 5 | 1 | 17 | 92 | -97 | -6 | 2 | 18 | 166 | 143 |
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| 7 | 1 | 15 | 34 | 29 | 2 | 5 | 15 | 23 | 23 | 8 | 2 | 16 | 47 | -41 | 11 | 1 | 17 | 45 | -41 | -2 | 2 | 18 | 65 | 50 |
| 9 | 1 | 15 | 110 | 113 | 4 | 5 | 15 | 23 | -21 | -10 | 4 | 16 | 109 | -124 | -11 | 3 | 17 | 83 | 89 | 0 | 2 | 18 | 40 | 51 |
| 10 | 1 | 15 | 13 | -19 | -16 | 0 | 16 | 104 | 116 | -9 | 4 | 16 | 40 | 42 | -10 | 3 | 17 | 34 | -33 | 2 | 2 | 18 | 20 | -27 |
| 11 | 1 | 15 | 120 | 117 | -14 | 0 | 16 | 96 | -98 | -8 | 4 | 16 | 46 | -58 | -9 | 3 | 17 | 99 | -103 | 3 | 2 | 18 | 10 | 9 |

| H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC | H | K | L | FO | FC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2 | 18 | 53 | 65 | -7 | 1 | 19 | 34 | -18 | 4 | 1 | 19 | 11 | -12 | -1 | 3 | 19 | 106 | -107 | -6 | 2 | 20 | 120 | -123 |
| 5 | 2 | 18 | 18 | 14 | -5 | 1 | 19 | 136 | 111 | 5 | 1 | 19 | 39 | -33 | 0 | 3 | 19 | 11 | 5 | -5 | 2 | 20 | 34 | -26 |
| 6 | 2 | 18 | 110 | 111 | -4 | 1 | 19 | 15 | -6 | 6 | 1 | 19 | 28 | 27 | 1 | 3 | 19 | 33 | -43 | -4 | 2 | 20 | 163 | -141 |
| 7 | 2 | 18 | 24 | -21 | -3 | 1 | 19 | 71 | -57 | 7 | 1 | 19 | 58 | -67 | -8 | 0 | 20 | 48 | 30 | -3 | 2 | 20 | 12 | 8 |
| 8 | 2 | 18 | 53 | -51 | -2 | 1 | 19 | 39 | 35 | -6 | 3 | 19 | 13 | -5 | -6 | 0 | 20 | 74 | 75 | -2 | 2 | 20 | 36 | 24 |
| -11 | 1 | 19 | 52 | 60 | -1 | 1 | 19 | 177 | 149 | -5 | 3 | 19 | 56 | -47 | -4 | 0 | 20 | 148 | 124 | -1 | 2 | 20 | 42 | -37 |
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| -9 | 1 | 19 | 59 | 44 | 1 | 1 | 19 | 90 | 97 | -3 | 3 | 19 | 23 | 18 | 0 | 0 | 20 | 58 | 50 | 1 | 2 | 20 | 39 | 42 |
| -8 | 1 | 19 | 35 | -31 | 3 | 1 | 19 | 21 | 11 | -2 | 3 | 19 | 28 | -22 | 2 | 0 | 20 | 113 | -109 | 2 | 2 | 20 | 86 | 89 |

6/18/1988 10:27:18 CPU time . . . 0 h 30 m 48 s