

Table 3 CCD matrix with experimental and predicted values

| Order | A | B | C | D | E | F | G | H | I | J | K | L | M | N | ActualMnP (U/mL) | Predicted MnP (U/mL) |
|-------|---|---|---|----|---|----|----|----|-----|-----|----|----|----|----|------------------|----------------------|
| 1 | 7 | 2 | 3 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 149.0 | 148.53 |
| | | 5 | 0 | | 5 | 02 | 04 | 01 | | 8 | 20 | 10 | 30 | 08 | | |
| 2 | 3 | 2 | 7 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 63.6 | 66.71 |
| | | 5 | 0 | | 5 | 02 | 15 | 01 | | 8 | 02 | 10 | 03 | 02 | | |
| 3 | 3 | 2 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 51.1 | 53.14 |
| | | 5 | 5 | | 5 | 08 | 15 | 05 | | 8 | 02 | 10 | 30 | 02 | | |
| 4 | 7 | 4 | 7 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 84.3 | 79.16 |
| | | 0 | 0 | | 5 | 02 | 15 | 01 | | 2 | 20 | 10 | 30 | 02 | | |
| 5 | 7 | 4 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 77.8 | 81.56 |
| | | 0 | 0 | | 5 | 02 | 04 | 01 | | 8 | 02 | 10 | 03 | 02 | | |
| 6 | 3 | 2 | 3 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 16.0 | 23.17 |
| | | 5 | 5 | | 5 | 08 | 04 | 05 | | 8 | 02 | 00 | 03 | 02 | | |
| 7 | 3 | 2 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 67.4 | 62.34 |
| | | 5 | 5 | | 5 | 08 | 04 | 05 | | 2 | 02 | 10 | 30 | 02 | | |
| 8 | 3 | 2 | 3 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 23.3 | 21.91 |
| | | 5 | 0 | | 5 | 02 | 04 | 01 | | 8 | 02 | 10 | 30 | 02 | | |
| 9 | 7 | 4 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 6.3 | 6.08 |
| | | 0 | 5 | | 5 | 02 | 15 | 05 | | 8 | 02 | 00 | 03 | 02 | | |
| 10 | 5 | 3 | 5 | 4. | 4 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 151.2 | 137.56 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | | 50 | 11 | 55 | 17 | 05 | | |
| 11 | 3 | 4 | 7 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 6.4 | 8.35 |
| | | 0 | 0 | | 5 | 08 | 15 | 01 | | 80 | 02 | 00 | 30 | 02 | | |
| 12 | 3 | 4 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 47.8 | 51.55 |
| | | 0 | 5 | | 5 | 02 | 15 | 05 | | 80 | 02 | 00 | 03 | 08 | | |
| 13 | 5 | 3 | 9 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 63.4 | 59.76 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | | 50 | 11 | 55 | 17 | 05 | | |
| 14 | 3 | 4 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 38.6 | 38.56 |
| | | 0 | 0 | | 5 | 08 | 15 | 01 | | 20 | 02 | 10 | 30 | 02 | | |
| 15 | 3 | 2 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 96.9 | 97.86 |
| | | 5 | 0 | | 5 | 02 | 04 | 05 | | 80 | 20 | 00 | 30 | 02 | | |
| 16 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 240.1 | 316.95 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | | 50 | 11 | 55 | 17 | 05 | | |
| 17 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 279.6 | 295.15 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | | 50 | 28 | 55 | 17 | 05 | | |
| 18 | 3 | 4 | 3 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 11.1 | 13.83 |
| | | 0 | 0 | | 5 | 02 | 04 | 05 | | 20 | 02 | 00 | 30 | 02 | | |
| 19 | 3 | 2 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 100.5 | 103.80 |
| | | 5 | 0 | | 5 | 08 | 15 | 05 | | 80 | 02 | 00 | 30 | 08 | | |
| 20 | 7 | 2 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 130.8 | 128.92 |
| | | 5 | 5 | | 5 | 02 | 15 | 01 | | 20 | 20 | 10 | 30 | 02 | | |
| 21 | 7 | 2 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 120.7 | 122.13 |
| | | 5 | 5 | | 5 | 02 | 15 | 01 | | 80 | 20 | 00 | 03 | 02 | | |
| 22 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 382.5 | 415.02 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | | 00 | 11 | 55 | 17 | 05 | | |
| 23 | 3 | 4 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 50.1 | 47.28 |
| | | 0 | 5 | | 5 | 02 | 04 | 01 | | 80 | 02 | 00 | 03 | 02 | | |
| 24 | 7 | 4 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 212.6 | 211.79 |
| | | 0 | 5 | | 5 | 02 | 15 | 05 | | 80 | 20 | 00 | 30 | 08 | | |
| 25 | 3 | 4 | 7 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 93.6 | 90.28 |
| | | 0 | 5 | | 5 | 02 | 15 | 01 | | 20 | 02 | 10 | 03 | 08 | | |
| 26 | 5 | 3 | 5 | 0. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 288.1 | 298.76 |
| | | 3 | 4 | | 0 | 05 | 10 | 03 | | 50 | 11 | 55 | 17 | 05 | | |

| | | | | | | | | | | | | | | | | |
|----|---|---|---|----|---|----|----|----|-----|-----|----|----|----|----|-------|--------|
| 27 | 3 | 4 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 49.5 | 50.94 |
| | | 0 | 5 | | 5 | 08 | 04 | 05 | 80 | 20 | 00 | 03 | 08 | | | |
| 28 | 3 | 2 | 3 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 110.2 | 112.17 |
| | | 5 | 0 | | 5 | 08 | 04 | 05 | 80 | 20 | 10 | 30 | 02 | | | |
| 29 | 3 | 2 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 30.9 | 36.72 |
| | | 5 | 0 | | 5 | 02 | 04 | 05 | 20 | 02 | 10 | 03 | 02 | | | |
| 30 | 7 | 2 | 7 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 380.9 | 383.49 |
| | | 5 | 5 | | 5 | 08 | 04 | 05 | 20 | 02 | 00 | 03 | 08 | | | |
| 31 | 5 | 1 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 119.0 | 116.65 |
| | | 8 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 32 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 333.4 | 308.49 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 00 | 05 | | | |
| 33 | 7 | 4 | 7 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 215.9 | 220.40 |
| | | 0 | 0 | | 5 | 08 | 15 | 05 | 20 | 02 | 10 | 30 | 08 | | | |
| 34 | 7 | 4 | 3 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 39.9 | 41.12 |
| | | 0 | 5 | | 5 | 02 | 15 | 05 | 20 | 02 | 10 | 03 | 02 | | | |
| 35 | 1 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 0.0 | 4.36 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 36 | 3 | 4 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 100.4 | 97.73 |
| | | 0 | 0 | | 5 | 08 | 04 | 01 | 20 | 20 | 00 | 30 | 08 | | | |
| 37 | 7 | 4 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 123.1 | 124.21 |
| | | 0 | 0 | | 5 | 08 | 15 | 05 | 20 | 02 | 00 | 03 | 02 | | | |
| 38 | 7 | 2 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 196.3 | 195.04 |
| | | 5 | 0 | | 5 | 02 | 15 | 01 | 20 | 02 | 10 | 03 | 08 | | | |
| 39 | 7 | 4 | 7 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 109.8 | 109.37 |
| | | 0 | 5 | | 5 | 08 | 04 | 05 | 20 | 02 | 10 | 03 | 08 | | | |
| 40 | 3 | 4 | 3 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 56.1 | 62.25 |
| | | 0 | 0 | | 5 | 02 | 15 | 05 | 80 | 02 | 10 | 30 | 08 | | | |
| 41 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 399.3 | 393.78 |
| | | 3 | 8 | | 0 | 05 | 20 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 42 | 3 | 4 | 7 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 90.0 | 87.89 |
| | | 0 | 0 | | 5 | 02 | 15 | 01 | 80 | 20 | 00 | 30 | 08 | | | |
| 43 | 5 | 3 | 1 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 0.0 | 5.30 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 44 | 3 | 2 | 3 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 53.0 | 51.45 |
| | | 5 | 5 | | 5 | 02 | 15 | 01 | 80 | 20 | 00 | 30 | 08 | | | |
| 45 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 334.4 | 316.95 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 46 | 3 | 4 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 88.8 | 86.03 |
| | | 0 | 5 | | 5 | 08 | 04 | 05 | 20 | 20 | 10 | 03 | 08 | | | |
| 47 | 3 | 2 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 153.7 | 149.37 |
| | | 5 | 5 | | 5 | 08 | 15 | 01 | 20 | 20 | 00 | 30 | 02 | | | |
| 48 | 7 | 2 | 7 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 385.5 | 382.02 |
| | | 5 | 5 | | 5 | 08 | 04 | 01 | 80 | 20 | 10 | 30 | 08 | | | |
| 49 | 7 | 2 | 7 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 186.2 | 187.87 |
| | | 5 | 5 | | 5 | 02 | 04 | 05 | 80 | 02 | 10 | 30 | 08 | | | |
| 50 | 7 | 2 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 306.6 | 307.89 |
| | | 5 | 0 | | 5 | 02 | 04 | 01 | 20 | 02 | 00 | 03 | 02 | | | |
| 51 | 7 | 2 | 7 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 212.4 | 216.51 |
| | | 5 | 0 | | 5 | 02 | 15 | 05 | 80 | 02 | 00 | 03 | 08 | | | |
| 52 | 3 | 2 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 57.6 | 55.93 |
| | | 5 | 5 | | 5 | 08 | 04 | 01 | 20 | 02 | 00 | 03 | 02 | | | |
| 53 | 7 | 2 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 97.0 | 93.42 |
| | | 5 | 5 | | 5 | 08 | 04 | 01 | 20 | 20 | 00 | 03 | 08 | | | |
| 54 | 7 | 2 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 86.0 | 87.32 |
| | | 5 | 5 | | 5 | 08 | 15 | 01 | 20 | 02 | 10 | 30 | 02 | | | |

| | | | | | | | | | | | | | | | | |
|----|---|---|---|----|---|----|----|----|-----|-----|----|----|----|----|-------|--------|
| 55 | 7 | 2 | 7 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 216.4 | 218.47 |
| | | 5 | | 5 | | 5 | 02 | 15 | 01 | 20 | 20 | 00 | 30 | 08 | | |
| 56 | 3 | 4 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 70.9 | 70.73 |
| | | 0 | | 0 | | 5 | 02 | 15 | 01 | 20 | 20 | 10 | 03 | 08 | | |
| 57 | 7 | 4 | 3 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 105.0 | 106.44 |
| | | 0 | | 0 | | 5 | 02 | 15 | 05 | 20 | 20 | 10 | 03 | 02 | | |
| 58 | 3 | 2 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 89.0 | 89.90 |
| | | 5 | | 0 | | 5 | 02 | 04 | 01 | 80 | 02 | 00 | 03 | 08 | | |
| 59 | 3 | 2 | 7 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 105.1 | 106.24 |
| | | 5 | | 5 | | 5 | 08 | 15 | 05 | 20 | 20 | 10 | 03 | 08 | | |
| 60 | 7 | 4 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 165.9 | 165.64 |
| | | 0 | | 5 | | 5 | 02 | 15 | 01 | 80 | 02 | 10 | 30 | 02 | | |
| 61 | 3 | 4 | 7 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 90.0 | 90.04 |
| | | 0 | | 0 | | 5 | 08 | 04 | 01 | 20 | 02 | 00 | 03 | 08 | | |
| 62 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 121.6 | 128.66 |
| | | 3 | | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 00 | | |
| 63 | 5 | 3 | 5 | 4. | 8 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 439.0 | 433.08 |
| | | 3 | | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 64 | 7 | 2 | 3 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 170.6 | 171.43 |
| | | 5 | | 0 | | 5 | 02 | 15 | 05 | 80 | 02 | 00 | 30 | 02 | | |
| 65 | 7 | 4 | 7 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 165.3 | 160.62 |
| | | 0 | | 5 | | 5 | 02 | 04 | 01 | 20 | 20 | 00 | 30 | 02 | | |
| 66 | 7 | 2 | 7 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 410.1 | 412.74 |
| | | 5 | | 0 | | 5 | 08 | 04 | 05 | 80 | 20 | 00 | 03 | 08 | | |
| 67 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 339.5 | 304.73 |
| | | 3 | | 8 | | 0 | 05 | 10 | 03 | 50 | 00 | 55 | 17 | 05 | | |
| 68 | 7 | 4 | 3 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 100.0 | 100.76 |
| | | 0 | | 0 | | 5 | 08 | 04 | 01 | 20 | 02 | 10 | 03 | 08 | | |
| 69 | 7 | 4 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 160.1 | 159.35 |
| | | 0 | | 0 | | 5 | 02 | 04 | 05 | 20 | 20 | 10 | 30 | 08 | | |
| 70 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 249.7 | 299.60 |
| | | 3 | | 8 | | 0 | 05 | 10 | 00 | 50 | 11 | 55 | 17 | 05 | | |
| 71 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 331.6 | 338.09 |
| | | 3 | | 8 | | 0 | 11 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 72 | 3 | 2 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 71.5 | 70.37 |
| | | 5 | | 5 | | 5 | 02 | 04 | 05 | 80 | 20 | 10 | 03 | 02 | | |
| 73 | 7 | 4 | 7 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 109.7 | 110.42 |
| | | 0 | | 5 | | 5 | 02 | 04 | 05 | 80 | 20 | 00 | 30 | 02 | | |
| 74 | 5 | 4 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 6.4 | 10.29 |
| | | 7 | | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 75 | 7 | 2 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 366.7 | 362.57 |
| | | 5 | | 0 | | 5 | 08 | 15 | 01 | 20 | 20 | 00 | 03 | 08 | | |
| 76 | 3 | 2 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 88.6 | 90.93 |
| | | 5 | | 5 | | 5 | 02 | 15 | 05 | 20 | 02 | 10 | 03 | 08 | | |
| 77 | 7 | 2 | 3 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 280.1 | 279.91 |
| | | 5 | | 0 | | 5 | 08 | 04 | 05 | 20 | 20 | 00 | 30 | 08 | | |
| 78 | 7 | 2 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 240.2 | 244.66 |
| | | 5 | | 5 | | 5 | 08 | 15 | 05 | 80 | 20 | 10 | 03 | 08 | | |
| 79 | 7 | 4 | 7 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 194.0 | 200.47 |
| | | 0 | | 5 | | 5 | 02 | 04 | 05 | 80 | 02 | 10 | 30 | 02 | | |
| 80 | 5 | 3 | 5 | 9. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 350.9 | 341.90 |
| | | 3 | | 1 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 81 | 3 | 2 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 121.2 | 120.07 |
| | | 5 | | 0 | | 5 | 02 | 15 | 01 | 80 | 02 | 10 | 30 | 08 | | |
| 82 | 5 | 3 | 5 | 4. | 4 | 2. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 308.2 | 323.53 |
| | | 3 | | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |

| | | | | | | | | | | | | | | | | |
|-----|---|---|---|----|---|----|----|----|-----|-----|----|----|----|----|-------|--------|
| 83 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 286.9 | 280.46 |
| | | 3 | 8 | | | 0 | 00 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 84 | 7 | 4 | 7 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 57.2 | 60.91 |
| | | 0 | 0 | | | 5 | 08 | 04 | 05 | 80 | 20 | 10 | 03 | 02 | | |
| 85 | 3 | 2 | 3 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 80.8 | 80.13 |
| | | 5 | 0 | | | 5 | 02 | 15 | 05 | 20 | 20 | 10 | 30 | 08 | | |
| 86 | 7 | 2 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 170.3 | 167.88 |
| | | 5 | 0 | | | 5 | 08 | 04 | 01 | 20 | 02 | 00 | 30 | 02 | | |
| 87 | 3 | 4 | 3 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 65.4 | 64.33 |
| | | 0 | 5 | | | 5 | 02 | 15 | 05 | 20 | 20 | 00 | 30 | 02 | | |
| 88 | 3 | 2 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 56.1 | 56.26 |
| | | 5 | 5 | | | 5 | 02 | 15 | 05 | 20 | 20 | 00 | 03 | 02 | | |
| 89 | 7 | 2 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 122.1 | 119.69 |
| | | 5 | 5 | | | 5 | 02 | 04 | 05 | 20 | 20 | 10 | 03 | 02 | | |
| 90 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 317.1 | 288.76 |
| | | 3 | 8 | | | 0 | 05 | 10 | 07 | 50 | 11 | 55 | 17 | 05 | | |
| 91 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 336.6 | 319.08 |
| | | 3 | 8 | | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 92 | 7 | 2 | 3 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 251.1 | 254.14 |
| | | 5 | 0 | | | 5 | 08 | 04 | 05 | 80 | 02 | 10 | 03 | 08 | | |
| 93 | 3 | 2 | 7 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 122.2 | 121.62 |
| | | 5 | 0 | | | 5 | 08 | 04 | 05 | 20 | 02 | 10 | 30 | 08 | | |
| 94 | 7 | 2 | 3 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 95.1 | 96.69 |
| | | 5 | 5 | | | 5 | 08 | 15 | 05 | 20 | 20 | 00 | 30 | 02 | | |
| 95 | 7 | 2 | 3 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 131.5 | 128.15 |
| | | 5 | 5 | | | 5 | 08 | 04 | 01 | 80 | 02 | 10 | 03 | 02 | | |
| 96 | 7 | 4 | 3 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 191.6 | 190.91 |
| | | 0 | 0 | | | 5 | 08 | 15 | 01 | 80 | 02 | 10 | 03 | 02 | | |
| 97 | 3 | 4 | 3 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 28.7 | 26.06 |
| | | 0 | 5 | | | 5 | 08 | 15 | 01 | 80 | 20 | 00 | 03 | 02 | | |
| 98 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.1 | 0. | 0. | 0. | 0. | 446.1 | 423.66 |
| | | 3 | 8 | | | 0 | 05 | 10 | 03 | 08 | 11 | 55 | 17 | 05 | | |
| 99 | 7 | 4 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 194.6 | 192.05 |
| | | 0 | 5 | | | 5 | 08 | 04 | 05 | 80 | 20 | 00 | 30 | 02 | | |
| 100 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 347.7 | 356.68 |
| | | 3 | 8 | | | 0 | 05 | 00 | 03 | 50 | 11 | 55 | 17 | 05 | | |
| 101 | 3 | 4 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 100.0 | 97.84 |
| | | 0 | 0 | | | 5 | 08 | 15 | 05 | 80 | 20 | 10 | 30 | 08 | | |
| 102 | 7 | 4 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 139.7 | 144.06 |
| | | 0 | 0 | | | 5 | 02 | 15 | 05 | 80 | 20 | 00 | 03 | 08 | | |
| 103 | 7 | 2 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 402.0 | 403.19 |
| | | 5 | 5 | | | 5 | 08 | 15 | 01 | 80 | 02 | 00 | 03 | 08 | | |
| 104 | 7 | 4 | 3 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 176.3 | 175.32 |
| | | 0 | 0 | | | 5 | 02 | 04 | 01 | 20 | 02 | 00 | 03 | 08 | | |
| 105 | 3 | 2 | 7 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 80.0 | 79.79 |
| | | 5 | 5 | | | 5 | 02 | 15 | 05 | 20 | 02 | 00 | 30 | 02 | | |
| 106 | 7 | 4 | 3 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 109.9 | 110.96 |
| | | 0 | 5 | | | 5 | 08 | 04 | 01 | 80 | 02 | 00 | 30 | 08 | | |
| 107 | 3 | 4 | 3 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 390.3 | 382.96 |
| | | 0 | 0 | | | 5 | 02 | 04 | 01 | 20 | 02 | 10 | 30 | 02 | | |
| 108 | 3 | 2 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 65.4 | 61.46 |
| | | 5 | 5 | | | 5 | 08 | 15 | 01 | 20 | 02 | 00 | 30 | 08 | | |
| 109 | 3 | 4 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 67.0 | 68.32 |
| | | 0 | 5 | | | 5 | 08 | 15 | 05 | 80 | 20 | 10 | 03 | 02 | | |
| 110 | 7 | 4 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 185.0 | 183.54 |
| | | 0 | 5 | | | 5 | 08 | 15 | 01 | 20 | 02 | 00 | 30 | 02 | | |

| | | | | | | | | | | | | | | | | |
|-----|---|---|---|----|---|----|----|----|-----|-----|----|----|----|----|-------|--------|
| 111 | 3 | 2 | 3 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 10.9 | 7.91 |
| | | 5 | 0 | | 5 | 02 | 04 | 01 | 20 | 20 | 00 | 03 | 02 | | | |
| 112 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 177.4 | 173.75 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 11 | | | |
| 113 | 3 | 4 | 7 | 2. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 0.0 | -1.60 |
| | | 0 | 5 | | 5 | 02 | 04 | 01 | 20 | 02 | 10 | 30 | 08 | | | |
| 114 | 7 | 4 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 201.0 | 199.30 |
| | | 0 | 5 | | 5 | 02 | 15 | 05 | 20 | 02 | 00 | 30 | 08 | | | |
| 115 | 3 | 2 | 3 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 80.0 | 78.45 |
| | | 5 | 0 | | 5 | 08 | 04 | 01 | 80 | 20 | 00 | 03 | 02 | | | |
| 116 | 7 | 4 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 128.4 | 128.46 |
| | | 0 | 0 | | 5 | 08 | 15 | 01 | 80 | 20 | 10 | 03 | 08 | | | |
| 117 | 3 | 2 | 3 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 52.5 | 50.28 |
| | | 5 | 0 | | 5 | 08 | 15 | 05 | 20 | 20 | 10 | 03 | 02 | | | |
| 118 | 3 | 2 | 7 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 71.1 | 72.53 |
| | | 5 | 0 | | 5 | 02 | 04 | 01 | 20 | 20 | 10 | 03 | 08 | | | |
| 119 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 349.0 | 360.58 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 43 | 05 | | | |
| 120 | 7 | 4 | 7 | 7. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 179.8 | 175.77 |
| | | 0 | 0 | | 5 | 08 | 04 | 01 | 20 | 20 | 10 | 03 | 02 | | | |
| 121 | 9 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 232.9 | 229.90 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 122 | 3 | 4 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 1.0 | -2.48 |
| | | 0 | 5 | | 5 | 08 | 04 | 01 | 80 | 20 | 10 | 30 | 02 | | | |
| 123 | 3 | 2 | 3 | 2. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 47.2 | 47.60 |
| | | 5 | 5 | | 5 | 02 | 04 | 01 | 80 | 02 | 00 | 30 | 08 | | | |
| 124 | 7 | 4 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 216.4 | 214.48 |
| | | 0 | 0 | | 5 | 08 | 04 | 05 | 80 | 02 | 00 | 30 | 08 | | | |
| 125 | 3 | 4 | 3 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 83.5 | 85.36 |
| | | 0 | 5 | | 5 | 08 | 04 | 01 | 80 | 02 | 10 | 03 | 08 | | | |
| 126 | 3 | 4 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 58.2 | 59.95 |
| | | 0 | 5 | | 5 | 02 | 04 | 05 | 80 | 20 | 10 | 30 | 08 | | | |
| 127 | 3 | 4 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 10.9 | 10.41 |
| | | 0 | 0 | | 5 | 08 | 04 | 05 | 20 | 20 | 00 | 30 | 02 | | | |
| 128 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 311.8 | 311.27 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 00 | 17 | 05 | | | |
| 129 | 5 | 3 | 5 | 4. | 0 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 446.8 | 454.36 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 130 | 7 | 2 | 7 | 7. | 6 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 130.0 | 131.16 |
| | | 5 | 0 | | 5 | 08 | 15 | 05 | 80 | 20 | 10 | 30 | 02 | | | |
| 131 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 336.6 | 319.08 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 132 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 336.6 | 319.08 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 133 | 7 | 4 | 3 | 2. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 150.4 | 149.43 |
| | | 0 | 5 | | 5 | 02 | 04 | 01 | 80 | 20 | 10 | 03 | 08 | | | |
| 134 | 3 | 4 | 3 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 56.1 | 56.43 |
| | | 0 | 0 | | 5 | 08 | 15 | 05 | 20 | 02 | 00 | 03 | 08 | | | |
| 135 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 336.6 | 319.08 |
| | | 3 | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 55 | 17 | 05 | | | |
| 136 | 7 | 2 | 3 | 7. | 2 | 0. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 119.0 | 119.53 |
| | | 5 | 0 | | 5 | 08 | 15 | 01 | 80 | 20 | 00 | 30 | 02 | | | |
| 137 | 7 | 4 | 3 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 0. | 0. | 0. | 233.2 | 227.89 |
| | | 0 | 5 | | 5 | 08 | 15 | 01 | 20 | 20 | 10 | 30 | 08 | | | |
| 138 | 3 | 2 | 7 | 2. | 6 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 224.7 | 221.99 |
| | | 5 | 5 | | 5 | 02 | 04 | 01 | 20 | 20 | 00 | 03 | 08 | | | |

| | | | | | | | | | | | | | | | | |
|-----|---|---|---|----|---|----|----|----|-----|-----|----|----|----|----|-------|--------|
| 139 | 5 | 3 | 5 | 4. | 4 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 331.9 | 333.75 |
| | | 3 | | 8 | | 0 | 05 | 10 | 03 | 50 | 11 | 42 | 17 | 05 | | |
| 140 | 3 | 4 | 7 | 7. | 2 | 1. | 0. | 0. | 0.0 | 0.0 | 0. | 1. | 0. | 0. | 11.9 | 13.07 |
| | | 0 | | 0 | | 5 | 02 | 15 | 05 | 8 | 20 | 00 | 03 | 02 | | |