



- [Processing \(Info\)](#)

MPEC 2014-G36 : DAILY ORBIT UPDATE (2014 APR. 7 UT)

The following *Minor Planet Electronic Circular* may be linked-to from your own Web pages, but must not otherwise

A form allowing access to any *MPEC* is at [the bottom of this page](#).

◀ [Read MPEC 2014-G35](#) ▶ [Read MPEC 2014-G37](#)

M.P.E.C. 2014-G36

Issued 2014 Apr. 7, 14:03 UT

The Minor Planet Electronic Circulars contain information on unusual minor planets and routine data on comets. They are published on behalf of Commission 20 of the International Astronomical Union by the Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

Prepared using the [Tamkin Foundation Computer Network](#)

MPC@CFA.HARVARD.EDU

URL <http://www.minorplanetcenter.net/> ISSN 1523-6714

DAILY ORBIT UPDATE (2014 APR. 7 UT)

Update to [MPEC 2014-G29](#)

Full-precision elements for the objects listed here are available at <http://www.minorplanetcenter.net/iau/MPCORB.html>

New identification:

| | | |
|---------|---------|------|
| K02AK9Y | K14F56S | MPCW |
| K03SP1F | K14G30L | MPCW |
| K03SW4P | K14G17S | MPCW |
| K05SB5F | K10KB4J | MPCW |
| K05X54P | K14G26T | MPCW |
| K05YD6R | K14G19G | MPCW |
| K06H74K | K14G29X | MPCW |
| K06H98Z | K14G27T | MPCW |
| K07O04N | K14G21P | MPCW |
| K07TP5Q | K14G25K | MPCW |
| K07V47S | K14G24C | MPCW |
| K07V51V | K14G22U | MPCW |
| K08A37O | K14G18A | MPCW |
| K08C11W | K14G27B | MPCW |
| | K14G28Z | |

| | | |
|---------|---------|------|
| K08D75C | K14G18Y | MPCW |
| K08FC2B | K14G34B | MPCW |
| K08SJ1C | K14G23C | MPCW |
| K08UN4T | K14G22H | MPCW |
| K08W28S | K14G17Y | MPCW |
| K08W65K | K14G31G | MPCW |
| K09B68G | K14G24S | MPCW |
| K09BC9H | K14G18B | MPCW |
| K09HA4H | K14G18Q | MPCW |
| K09Y04N | K14G31Y | MPCW |
| K09Y12J | K14G32R | MPCW |
| K10RA1T | K14G27R | MPCW |
| K10T97O | K14G31P | MPCW |
| K11O16K | K14G18X | MPCW |
| K11Q22C | K14G21Q | MPCW |
| K11UC6W | K14G29O | MPCW |
| K11Ua3A | K14G28S | MPCW |
| K12TI0K | K14G24Z | MPCW |
| K12X64N | K14G28C | MPCW |
| K13AE9T | K14G34A | MPCW |

New multiple-opposition orbits:

| Object | H | G | Epoch | M | Peri. | Node | Incl. | e | a | Opp | C |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|---|
| J95S06Z | 17.0 | 0.15 | K145N | 83.235 | 75.684 | 354.436 | 11.411 | 0.18118 | 2.62322 | 6 | X |
| J98M03E | 19.2 | 0.15 | K145N | 334.252 | 165.362 | 129.526 | 6.000 | 0.48369 | 2.17671 | 4 | X |
| J99VD6X | 17.8 | 0.15 | K145N | 285.269 | 260.718 | 58.173 | 6.857 | 0.13682 | 2.15812 | 6 | X |
| K00E36J | 17.0 | 0.15 | K145N | 4.239 | 131.801 | 76.333 | 6.867 | 0.17888 | 2.29599 | 4 | X |
| K00E98T | 18.6 | 0.15 | K145N | 9.496 | 14.540 | 186.728 | 1.856 | 0.14732 | 2.29146 | 4 | X |
| K00H03Q | 18.8 | 0.15 | K145N | 3.232 | 190.416 | 41.132 | 7.327 | 0.38710 | 2.30074 | 3 | X |
| K00J11G | 18.3 | 0.15 | K145N | 17.251 | 331.279 | 230.029 | 4.748 | 0.17999 | 2.30925 | 5 | X |
| K00WF5O | 16.7 | 0.15 | K145N | 238.765 | 333.181 | 30.757 | 10.698 | 0.21449 | 2.43022 | 5 | X |
| K01A45L | 17.6 | 0.15 | K145N | 70.563 | 20.657 | 95.872 | 6.270 | 0.26798 | 2.58590 | 7 | X |
| K01C49P | 18.1 | 0.15 | K145N | 16.326 | 58.518 | 110.276 | 2.395 | 0.20931 | 2.18954 | 4 | X |
| K01H21J | 18.0 | 0.15 | K145N | 319.183 | 83.687 | 194.137 | 3.899 | 0.25561 | 2.20337 | 5 | X |
| K01M21Q | 16.8 | 0.15 | K145N | 301.655 | 218.393 | 83.548 | 8.685 | 0.32384 | 2.73071 | 4 | X |
| K01P52F | 17.2 | 0.15 | K145N | 227.547 | 232.863 | 119.162 | 7.107 | 0.16623 | 2.28871 | 5 | X |
| K01QP6H | 16.4 | 0.15 | K145N | 282.552 | 179.209 | 144.242 | 7.005 | 0.27293 | 2.77985 | 6 | X |
| K01SZ5J | 17.6 | 0.15 | K145N | 103.865 | 25.859 | 68.706 | 6.885 | 0.17988 | 2.37549 | 4 | X |
| K01T89B | 16.8 | 0.15 | K145N | 228.729 | 141.107 | 221.467 | 5.642 | 0.12400 | 2.30662 | 5 | X |
| K01TG3O | 17.2 | 0.15 | K145N | 124.271 | 36.254 | 25.572 | 6.490 | 0.10266 | 2.37482 | 6 | X |
| K02AK9Y | 16.4 | 0.15 | K145N | 274.464 | 169.094 | 127.752 | 7.029 | 0.12230 | 2.45892 | 7 | X |
| K02D09Y | 15.6 | 0.15 | K145N | 60.541 | 33.069 | 113.817 | 27.612 | 0.10205 | 3.17615 | 5 | X |
| K02J14G | 17.2 | 0.15 | K145N | 5.696 | 305.553 | 237.647 | 12.828 | 0.48746 | 3.36701 | 3 | X |
| K02J93G | 17.2 | 0.15 | K145N | 347.872 | 182.787 | 53.664 | 9.584 | 0.17397 | 2.53871 | 4 | X |
| K02L64A | 17.4 | 0.15 | K145N | 286.381 | 202.709 | 115.728 | 7.173 | 0.33377 | 2.57069 | 5 | X |
| K02N60B | 18.4 | 0.15 | K145N | 278.105 | 184.197 | 129.282 | 7.210 | 0.17419 | 2.13170 | 4 | X |
| K02P32H | 17.3 | 0.15 | K145N | 308.087 | 128.760 | 177.200 | 4.650 | 0.22436 | 2.58829 | 6 | X |
| K02PJ4Q | 16.6 | 0.15 | K145N | 330.345 | 115.416 | 132.003 | 10.360 | 0.08011 | 2.63303 | 7 | X |
| K02PK0M | 17.5 | 0.15 | K145N | 310.569 | 264.519 | 14.257 | 4.031 | 0.21763 | 2.60459 | 4 | X |
| K02QC6Y | 16.9 | 0.15 | K145N | 286.040 | 164.725 | 134.641 | 12.881 | 0.12131 | 2.65378 | 6 | X |
| K02QE6A | 18.2 | 0.15 | K145N | 114.070 | 260.246 | 162.391 | 23.662 | 0.08595 | 1.88695 | 2 | X |
| K02RT2F | 16.8 | 0.15 | K145N | 322.716 | 73.714 | 209.756 | 12.748 | 0.25863 | 2.61780 | 6 | X |
| K02S55N | 16.3 | 0.15 | K145N | 166.367 | 207.060 | 169.546 | 10.101 | 0.22877 | 2.80823 | 7 | X |
| K02T07O | 16.7 | 0.15 | K145N | 316.283 | 237.868 | 11.574 | 8.149 | 0.05858 | 2.20745 | 9 | X |
| K02TO1E | 17.7 | 0.15 | K145N | 270.846 | 293.952 | 27.358 | 4.938 | 0.20236 | 2.16842 | 4 | X |
| K02TU6H | 16.8 | 0.15 | K145N | 30.022 | 126.186 | 57.931 | 10.271 | 0.09377 | 2.75950 | 6 | X |
| K02Tc4C | 16.8 | 0.15 | K145N | 279.017 | 152.870 | 140.360 | 3.461 | 0.08933 | 2.76174 | 6 | X |
| K02U44R | 16.6 | 0.15 | K145N | 248.043 | 141.910 | 211.107 | 12.330 | 0.26382 | 2.68098 | 5 | X |
| K02U74Q | 17.7 | 0.15 | K145N | 105.145 | 44.114 | 61.623 | 7.977 | 0.16786 | 2.24859 | 5 | X |
| K02XB5B | 17.5 | 0.15 | K145N | 173.838 | 316.066 | 86.393 | 23.666 | 0.08822 | 1.88899 | 4 | X |
| K03B31F | 16.9 | 0.15 | K145N | 23.830 | 357.278 | 167.846 | 1.465 | 0.29338 | 3.06571 | 4 | X |
| K03E11Z | 17.5 | 0.15 | K145N | 26.729 | 79.307 | 99.451 | 6.238 | 0.20642 | 2.35113 | 5 | X |
| K03F00G | 19.7 | 0.15 | K145N | 339.153 | 312.800 | 7.076 | 15.655 | 0.71513 | 1.24160 | 4 | X |
| K03F40G | 16.9 | 0.15 | K145N | 6.499 | 276.622 | 296.602 | 1.981 | 0.19115 | 3.06720 | 3 | X |
| K03G07M | 16.0 | 0.15 | K145N | 316.829 | 241.823 | 15.477 | 16.642 | 0.19593 | 3.12033 | 7 | X |
| K03H23H | 18.3 | 0.15 | K145N | 24.869 | 147.420 | 22.925 | 3.303 | 0.16367 | 2.38349 | 3 | X |
| K03J12B | 15.9 | 0.15 | K145N | 40.658 | 331.500 | 204.905 | 10.058 | 0.04581 | 3.08387 | 6 | X |
| K03Q79R | 20.8 | 0.15 | K145N | 89.726 | 103.143 | 333.082 | 17.166 | 0.30559 | 1.27866 | 2 | W |
| K03Q84B | 17.3 | 0.15 | K145N | 91.367 | 300.258 | 154.181 | 13.487 | 0.23452 | 2.62101 | 6 | X |
| K03SP1F | 16.4 | 0.15 | K145N | 140.146 | 28.817 | 33.454 | 7.320 | 0.18782 | 2.65052 | 7 | X |
| K03SW4P | 17.6 | 0.15 | K145N | 127.618 | 70.138 | 353.938 | 10.974 | 0.11499 | 2.62317 | 2 | X |
| K03T19R | 16.5 | 0.15 | K145N | 218.866 | 336.602 | 20.738 | 14.850 | 0.18028 | 2.57223 | 7 | X |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|---|---|
| K03T38T | 16.9 | 0.15 | K145N | 9.154 | 168.828 | 355.460 | 15.213 | 0.06590 | 2.68449 | 5 | X |
| K03UE9A | 16.2 | 0.15 | K145N | 123.799 | 19.831 | 70.747 | 12.856 | 0.15450 | 2.64996 | 7 | W |
| K03WD0G | 16.4 | 0.15 | K145N | 116.978 | 9.499 | 57.268 | 10.736 | 0.22204 | 2.73384 | 4 | X |
| K03X24A | 17.3 | 0.15 | K145N | 102.306 | 21.013 | 72.715 | 10.039 | 0.09743 | 2.71425 | 4 | X |
| K03Y77W | 16.4 | 0.15 | K145N | 82.802 | 27.543 | 85.199 | 10.408 | 0.11258 | 2.76960 | 5 | X |
| K04B47H | 17.0 | 0.15 | K145N | 52.506 | 29.452 | 114.690 | 9.094 | 0.16445 | 2.80500 | 5 | X |
| K04E58G | 17.4 | 0.15 | K145N | 10.779 | 191.438 | 21.744 | 6.742 | 0.10714 | 2.20274 | 3 | X |
| K04F28V | 17.9 | 0.15 | K145N | 241.702 | 141.282 | 194.384 | 21.326 | 0.03251 | 1.84374 | 3 | X |
| K04G32X | 16.9 | 0.15 | K145N | 50.137 | 274.599 | 205.413 | 23.137 | 0.23941 | 2.25936 | 5 | X |
| K04G63E | 17.9 | 0.15 | K145N | 314.755 | 242.699 | 21.013 | 7.428 | 0.17891 | 2.24695 | 4 | X |
| K04H57G | 17.2 | 0.15 | K145N | 8.801 | 145.038 | 59.642 | 7.278 | 0.16593 | 2.95211 | 3 | X |
| K04Q28V | 17.6 | 0.15 | K145N | 64.919 | 321.838 | 179.129 | 18.899 | 0.03955 | 2.40179 | 4 | X |
| K04R51P | 17.2 | 0.15 | K145N | 257.786 | 176.349 | 156.780 | 7.280 | 0.14248 | 2.35699 | 4 | X |
| K04R71J | 17.3 | 0.15 | K145N | 257.368 | 300.579 | 25.058 | 6.077 | 0.15065 | 2.37187 | 8 | X |
| K04RG5B | 17.5 | 0.15 | K145N | 254.177 | 121.443 | 220.414 | 6.537 | 0.14171 | 2.33366 | 6 | X |
| K04RI3D | 17.6 | 0.15 | K145N | 304.658 | 102.803 | 199.509 | 5.073 | 0.23509 | 2.31473 | 4 | X |
| K04TH7P | 18.6 | 0.15 | K145N | 348.625 | 41.302 | 193.590 | 22.927 | 0.03746 | 1.92595 | 3 | X |
| K04X18C | 16.4 | 0.15 | K145N | 145.196 | 246.021 | 175.512 | 13.853 | 0.12546 | 2.51457 | 4 | X |
| K05C28W | 17.0 | 0.15 | K145N | 47.076 | 29.270 | 131.943 | 10.875 | 0.05578 | 2.63340 | 7 | X |
| K05EA0V | 15.7 | 0.15 | K145N | 6.330 | 62.871 | 149.976 | 13.620 | 0.20571 | 2.69614 | 5 | X |
| K05EH9E | 17.2 | 0.15 | K145N | 328.824 | 53.607 | 177.552 | 12.548 | 0.08899 | 2.71716 | 5 | X |
| K05EI7U | 17.8 | 0.15 | K145N | 38.676 | 162.977 | 1.467 | 2.733 | 0.20395 | 2.71293 | 4 | X |
| K05EO7G | 16.7 | 0.15 | K145N | 55.443 | 354.920 | 148.772 | 10.443 | 0.11005 | 2.66739 | 5 | X |
| K05EQ6Z | 17.1 | 0.15 | K145N | 48.051 | 303.553 | 195.989 | 15.723 | 0.20346 | 2.73493 | 5 | X |
| K05G19W | 17.3 | 0.15 | K145N | 48.217 | 288.608 | 201.731 | 8.315 | 0.24329 | 2.75774 | 3 | X |
| K05G87A | 16.9 | 0.15 | K145N | 351.509 | 178.471 | 31.657 | 7.346 | 0.11853 | 2.76853 | 4 | X |
| K05GC9N | 17.0 | 0.15 | K145N | 41.012 | 82.651 | 89.220 | 5.515 | 0.04485 | 2.73594 | 3 | X |
| K05GH0N | 16.8 | 0.15 | K145N | 3.832 | 340.453 | 225.781 | 5.567 | 0.23579 | 2.74647 | 3 | X |
| K05GH6J | 16.9 | 0.15 | K145N | 343.224 | 98.593 | 129.435 | 5.819 | 0.09700 | 2.76552 | 6 | X |
| K05J48Q | 16.9 | 0.15 | K145N | 222.848 | 161.540 | 171.885 | 6.351 | 0.07697 | 2.85960 | 5 | X |
| K05Q76M | 15.9 | 0.15 | K145N | 255.412 | 137.132 | 151.672 | 17.922 | 0.20293 | 3.05638 | 5 | X |
| K05QA1Z | 15.9 | 0.15 | K145N | 202.022 | 189.515 | 179.131 | 10.950 | 0.04084 | 3.06925 | 8 | X |
| K05QD2S | 16.1 | 0.15 | K145N | 57.874 | 117.294 | 11.376 | 8.947 | 0.02911 | 3.16064 | 6 | X |
| K05QF1Z | 20.3 | 0.15 | K145N | 54.694 | 62.998 | 20.906 | 4.856 | 0.58015 | 1.93686 | 4 | X |
| K05QJ0E | 16.3 | 0.15 | K145N | 286.059 | 108.269 | 172.564 | 8.828 | 0.05418 | 3.06118 | 3 | X |
| K05S27P | 16.1 | 0.15 | K145N | 186.769 | 178.674 | 214.611 | 10.584 | 0.08661 | 3.12680 | 5 | X |
| K05S76K | 17.8 | 0.15 | K145N | 96.735 | 72.294 | 7.330 | 6.943 | 0.17142 | 2.33661 | 4 | X |
| K05S97A | 16.1 | 0.15 | K145N | 273.390 | 299.130 | 23.234 | 10.531 | 0.11616 | 3.01291 | 6 | X |
| K05SA9M | 18.1 | 0.15 | K145N | 50.420 | 312.214 | 201.016 | 3.208 | 0.05957 | 2.28344 | 4 | X |
| K05SB5F | 16.1 | 0.15 | K145N | 246.921 | 146.288 | 196.986 | 7.010 | 0.08870 | 3.06230 | 6 | X |
| K05SE6K | 17.1 | 0.15 | K145N | 113.859 | 72.011 | 337.506 | 5.534 | 0.12938 | 2.35648 | 5 | X |
| K05SG0B | 16.0 | 0.15 | K145N | 205.619 | 186.961 | 166.332 | 23.157 | 0.08055 | 3.10181 | 5 | X |
| K05SJ9O | 16.3 | 0.15 | K145N | 285.551 | 107.459 | 176.778 | 11.928 | 0.06686 | 3.06236 | 6 | X |
| K05SN3J | 15.8 | 0.15 | K145N | 265.103 | 287.629 | 35.925 | 11.589 | 0.08963 | 3.12229 | 7 | X |
| K05SN5E | 17.3 | 0.15 | K145N | 165.206 | 30.598 | 23.502 | 7.279 | 0.08676 | 2.26463 | 4 | X |
| K05SN6G | 18.2 | 0.15 | K145N | 302.656 | 340.301 | 320.561 | 1.773 | 0.17676 | 2.18973 | 7 | X |
| K05SR0V | 15.8 | 0.15 | K145N | 214.695 | 223.884 | 133.839 | 8.737 | 0.17516 | 3.11121 | 6 | X |
| K05T20X | 16.2 | 0.15 | K145N | 274.375 | 105.208 | 193.400 | 8.478 | 0.08425 | 3.07825 | 5 | X |
| K05T89V | 18.2 | 0.15 | K145N | 294.176 | 127.206 | 157.666 | 3.170 | 0.17175 | 2.20422 | 4 | X |
| K05UB4D | 18.0 | 0.15 | K145N | 74.105 | 72.667 | 28.805 | 2.676 | 0.17795 | 2.39821 | 4 | X |
| K05UH7H | 17.6 | 0.15 | K145N | 263.124 | 302.149 | 23.293 | 3.327 | 0.20568 | 2.23321 | 5 | X |
| K05UU0K | 15.4 | 0.15 | K145N | 318.602 | 191.161 | 72.661 | 20.640 | 0.08283 | 3.21039 | 6 | X |
| K05UW5V | 18.0 | 0.15 | K145N | 322.477 | 54.698 | 198.472 | 7.539 | 0.10252 | 2.25095 | 3 | X |
| K05Ua4T | 15.7 | 0.15 | K145N | 216.333 | 299.069 | 62.782 | 9.911 | 0.04279 | 3.21280 | 4 | X |
| K05Ua7F | 17.5 | 0.15 | K145N | 350.605 | 152.421 | 73.128 | 8.485 | 0.10554 | 2.28580 | 5 | X |
| K05Ud3T | 17.2 | 0.15 | K145N | 79.531 | 64.373 | 44.600 | 12.016 | 0.25204 | 2.35974 | 4 | X |
| K05U18O | 15.6 | 0.15 | K145N | 62.973 | 285.194 | 228.680 | 10.076 | 0.03714 | 3.24867 | 5 | X |
| K05Up8F | 16.2 | 0.15 | K145N | 231.388 | 179.897 | 164.546 | 13.327 | 0.12573 | 3.16264 | 4 | X |
| K05V01F | 17.7 | 0.15 | K145N | 103.226 | 280.592 | 173.480 | 4.151 | 0.09196 | 2.32215 | 5 | X |
| K05W86S | 17.3 | 0.15 | K145N | 120.128 | 3.966 | 75.956 | 7.035 | 0.08895 | 2.34293 | 3 | X |
| K05X54P | 17.6 | 0.15 | K145N | 296.302 | 22.792 | 274.383 | 2.891 | 0.09923 | 2.27187 | 6 | X |
| K05Y11K | 18.0 | 0.15 | K145N | 39.104 | 127.487 | 32.154 | 1.842 | 0.12669 | 2.40426 | 5 | X |
| K05YA9T | 18.1 | 0.15 | K145N | 30.674 | 7.492 | 152.875 | 2.805 | 0.13811 | 2.44515 | 4 | X |
| K05YD6R | 18.6 | 0.15 | K145N | 45.541 | 177.353 | 332.824 | 2.819 | 0.15956 | 2.43246 | 2 | X |
| K06A69N | 17.7 | 0.15 | K145N | 21.507 | 159.915 | 23.046 | 3.594 | 0.12701 | 2.42506 | 7 | X |
| K06B65M | 18.0 | 0.15 | K145N | 345.181 | 197.794 | 27.053 | 1.405 | 0.13377 | 2.43107 | 6 | X |
| K06E34O | 17.1 | 0.15 | K145N | 285.927 | 244.773 | 19.105 | 9.666 | 0.07948 | 2.55894 | 3 | X |
| K06G19N | 15.4 | 0.15 | K145N | 312.443 | 192.673 | 81.464 | 4.054 | 0.14120 | 4.00864 | 3 | X |
| K06H28H | 17.1 | 0.15 | K145N | 316.182 | 107.814 | 155.710 | 14.707 | 0.09532 | 2.58422 | 3 | X |
| K06H61S | 16.5 | 0.15 | K145N | 43.049 | 63.121 | 26.108 | 28.974 | 0.41152 | 2.59140 | 3 | X |
| K06H74K | 17.1 | 0.15 | K145N | 147.577 | 216.714 | 200.627 | 9.765 | 0.17237 | 2.57324 | 3 | X |
| K06H98Z | 18.1 | 0.15 | K145N | 29.397 | 124.246 | 64.107 | 3.206 | 0.13097 | 2.53444 | 3 | X |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|---|---|
| K06J14A | 16.9 | 0.15 | K145N | 86.103 | 171.433 | 321.867 | 0.917 | 0.02270 | 2.54174 | 6 | X |
| K06J35U | 18.1 | 0.15 | K145N | 4.912 | 18.131 | 174.007 | 3.698 | 0.14241 | 2.59287 | 3 | X |
| K06J81B | 16.6 | 0.15 | K145N | 82.760 | 273.519 | 213.877 | 14.790 | 0.11208 | 2.57150 | 6 | X |
| K06K13N | 17.4 | 0.15 | K145N | 313.402 | 81.605 | 178.432 | 12.317 | 0.16852 | 2.57799 | 5 | X |
| K06M04U | 17.9 | 0.15 | K145N | 315.899 | 80.808 | 183.227 | 12.451 | 0.15259 | 2.59521 | 3 | X |
| K06Q58Q | 16.0 | 0.15 | K145N | 294.587 | 261.183 | 8.888 | 16.803 | 0.09854 | 2.81289 | 3 | X |
| K06R70O | 15.7 | 0.15 | K145N | 111.750 | 49.172 | 359.618 | 9.544 | 0.06941 | 3.07348 | 4 | X |
| K06R87M | 17.3 | 0.15 | K145N | 306.899 | 263.010 | 15.330 | 6.204 | 0.27626 | 2.73479 | 3 | X |
| K06RB6L | 16.9 | 0.15 | K145N | 35.746 | 181.201 | 331.362 | 1.318 | 0.20360 | 3.05369 | 3 | X |
| K06S17C | 16.8 | 0.15 | K145N | 324.615 | 87.162 | 205.347 | 12.918 | 0.27921 | 2.66213 | 4 | X |
| K06S66H | 16.5 | 0.15 | K145N | 150.341 | 204.756 | 200.070 | 1.293 | 0.10782 | 2.94875 | 7 | W |
| K06SL9Q | 16.3 | 0.15 | K145N | 132.590 | 35.911 | 351.337 | 15.223 | 0.07339 | 3.03474 | 6 | X |
| K06SV3F | 16.7 | 0.15 | K145N | 67.108 | 71.138 | 28.519 | 10.772 | 0.07406 | 3.11051 | 2 | X |
| K06Sd8Y | 16.6 | 0.15 | K145N | 53.473 | 285.810 | 193.476 | 22.611 | 0.28707 | 3.16909 | 3 | X |
| K06Se7E | 17.1 | 0.15 | K145N | 80.455 | 11.870 | 94.214 | 2.723 | 0.04110 | 3.04906 | 4 | X |
| K06T42Y | 16.4 | 0.15 | K145N | 87.734 | 248.735 | 220.497 | 9.111 | 0.19884 | 3.13260 | 4 | X |
| K06TA3C | 16.3 | 0.15 | K145N | 356.858 | 188.592 | 23.163 | 9.319 | 0.03280 | 2.97077 | 5 | X |
| K06TB2U | 16.5 | 0.15 | K145N | 250.751 | 187.367 | 127.731 | 10.346 | 0.09817 | 2.93546 | 7 | X |
| K06TC0M | 16.6 | 0.15 | K145N | 227.645 | 206.409 | 139.650 | 9.100 | 0.07095 | 2.91471 | 5 | X |
| K06TC1V | 16.2 | 0.15 | K145N | 120.590 | 15.055 | 56.688 | 18.256 | 0.15531 | 3.12702 | 4 | X |
| K06UM8Y | 15.5 | 0.15 | K145N | 170.022 | 188.458 | 217.299 | 17.405 | 0.19288 | 3.00004 | 5 | X |
| K06UU6S | 16.4 | 0.15 | K145N | 191.949 | 198.863 | 160.059 | 2.378 | 0.04907 | 2.90357 | 7 | X |
| K06VE6L | 16.0 | 0.15 | K145N | 108.025 | 245.262 | 201.327 | 9.319 | 0.07323 | 3.13322 | 7 | X |
| K06W21S | 16.2 | 0.15 | K145N | 208.951 | 278.781 | 85.127 | 11.895 | 0.12127 | 3.01215 | 5 | X |
| K06W33Z | 16.3 | 0.15 | K145N | 169.200 | 317.604 | 76.824 | 10.476 | 0.08731 | 3.04828 | 5 | X |
| K06W75R | 16.0 | 0.15 | K145N | 273.888 | 208.898 | 74.591 | 2.002 | 0.17318 | 3.03479 | 7 | X |
| K06W83N | 16.6 | 0.15 | K145N | 177.422 | 298.155 | 91.123 | 10.433 | 0.07714 | 3.06586 | 4 | X |
| K06WA8S | 16.6 | 0.15 | K145N | 118.974 | 356.380 | 73.875 | 8.405 | 0.15582 | 3.17502 | 4 | X |
| K06WD2S | 16.6 | 0.15 | K145N | 270.147 | 58.237 | 236.421 | 0.565 | 0.05704 | 3.03908 | 5 | X |
| K06WD4G | 16.7 | 0.15 | K145N | 216.297 | 319.130 | 23.193 | 10.167 | 0.11419 | 2.98583 | 6 | X |
| K06WH1D | 16.3 | 0.15 | K145N | 78.623 | 44.629 | 74.820 | 10.719 | 0.05616 | 3.14459 | 6 | X |
| K07B08W | 17.8 | 0.15 | K145N | 359.726 | 178.399 | 24.508 | 2.511 | 0.11415 | 2.24477 | 6 | X |
| K07B37K | 17.8 | 0.15 | K145N | 327.643 | 121.527 | 132.035 | 1.549 | 0.13868 | 2.20474 | 7 | X |
| K07DA9D | 17.7 | 0.15 | K145N | 322.804 | 73.803 | 165.516 | 6.292 | 0.19900 | 2.32318 | 6 | X |
| K07E12C | 17.9 | 0.15 | K145N | 54.006 | 81.699 | 51.524 | 3.435 | 0.16332 | 2.28423 | 5 | X |
| K07E69X | 17.5 | 0.15 | K145N | 286.769 | 131.291 | 159.071 | 5.779 | 0.16871 | 2.31296 | 4 | X |
| K07EE7E | 17.8 | 0.15 | K145N | 159.974 | 255.067 | 143.083 | 5.654 | 0.11137 | 2.28111 | 5 | X |
| K07EK6Z | 16.9 | 0.15 | K145N | 74.448 | 5.604 | 125.892 | 7.607 | 0.03402 | 2.26365 | 6 | X |
| K07F03U | 17.4 | 0.15 | K145N | 17.332 | 50.818 | 124.129 | 8.123 | 0.17865 | 2.31012 | 2 | X |
| K07G20Z | 18.5 | 0.15 | K145N | 350.847 | 19.837 | 202.166 | 3.252 | 0.18235 | 2.33902 | 2 | X |
| K07G62F | 17.3 | 0.15 | K145N | 31.490 | 162.977 | 11.397 | 7.650 | 0.04447 | 2.33467 | 5 | X |
| K07H26O | 18.1 | 0.15 | K145N | 321.844 | 184.272 | 72.555 | 2.240 | 0.15666 | 2.33889 | 4 | X |
| K07J11Q | 16.9 | 0.15 | K145N | 111.148 | 39.784 | 45.146 | 22.711 | 0.12089 | 2.37003 | 4 | X |
| K07J17B | 18.0 | 0.15 | K145N | 349.580 | 63.505 | 155.390 | 2.542 | 0.16671 | 2.36228 | 6 | X |
| K07O04N | 16.6 | 0.15 | K145N | 210.318 | 126.945 | 232.794 | 7.808 | 0.11781 | 2.53150 | 4 | X |
| K07O10V | 17.5 | 0.15 | K145N | 332.790 | 319.504 | 309.813 | 4.083 | 0.20793 | 2.40260 | 5 | X |
| K07P45U | 17.0 | 0.15 | K145N | 277.676 | 133.935 | 142.778 | 8.397 | 0.19168 | 2.54618 | 6 | X |
| K07RC3Y | 17.2 | 0.15 | K145N | 253.049 | 63.992 | 249.546 | 6.025 | 0.20981 | 2.57330 | 4 | X |
| K07RJ2H | 17.2 | 0.15 | K145N | 309.342 | 94.809 | 212.124 | 12.003 | 0.30770 | 2.39671 | 5 | X |
| K07RM2A | 17.5 | 0.15 | K145N | 236.328 | 320.615 | 8.359 | 23.431 | 0.04659 | 1.90037 | 4 | X |
| K07RT6Q | 17.0 | 0.15 | K145N | 172.237 | 3.609 | 16.140 | 5.878 | 0.06335 | 2.70927 | 5 | X |
| K07RU9P | 17.6 | 0.15 | K145N | 182.645 | 193.780 | 169.019 | 23.150 | 0.02680 | 1.91341 | 6 | X |
| K07T13R | 15.9 | 0.15 | K145N | 236.576 | 314.504 | 53.148 | 14.609 | 0.18826 | 2.60551 | 4 | X |
| K07T58B | 16.7 | 0.15 | K145N | 46.486 | 114.433 | 36.679 | 5.600 | 0.09712 | 2.79454 | 3 | X |
| K07TAlL | 17.4 | 0.15 | K145N | 349.194 | 183.449 | 30.864 | 12.395 | 0.04669 | 2.67365 | 3 | X |
| K07TC9H | 16.9 | 0.15 | K145N | 302.916 | 264.347 | 38.098 | 16.142 | 0.17296 | 2.54718 | 4 | X |
| K07TF4T | 16.1 | 0.15 | K145N | 172.892 | 191.640 | 212.432 | 14.242 | 0.11008 | 2.65330 | 5 | X |
| K07TJ8U | 16.4 | 0.15 | K145N | 307.399 | 234.132 | 17.412 | 10.784 | 0.04998 | 2.70238 | 4 | X |
| K07TP5Q | 16.6 | 0.15 | K145N | 164.498 | 165.195 | 228.942 | 8.742 | 0.10309 | 2.71945 | 4 | X |
| K07TY8R | 17.1 | 0.15 | K145N | 175.368 | 235.098 | 152.511 | 12.034 | 0.21426 | 2.60757 | 7 | X |
| K07U25F | 16.8 | 0.15 | K145N | 308.731 | 238.282 | 45.754 | 17.616 | 0.19873 | 2.58994 | 5 | X |
| K07U43B | 17.2 | 0.15 | K145N | 121.794 | 233.545 | 195.793 | 3.512 | 0.08207 | 2.77039 | 6 | W |
| K07V47S | 17.3 | 0.15 | K145N | 189.563 | 77.298 | 299.427 | 5.205 | 0.02345 | 2.74471 | 6 | X |
| K07V51V | 17.0 | 0.15 | K145N | 248.121 | 39.402 | 281.840 | 4.156 | 0.02482 | 2.73812 | 4 | X |
| K07V54E | 16.3 | 0.15 | K145N | 242.538 | 136.770 | 217.510 | 12.922 | 0.17580 | 2.60960 | 4 | X |
| K07VF2R | 16.8 | 0.15 | K145N | 251.301 | 245.418 | 77.875 | 12.179 | 0.06364 | 2.71030 | 5 | X |
| K07VF9Z | 16.6 | 0.15 | K145N | 332.307 | 145.482 | 87.906 | 7.192 | 0.00680 | 2.76618 | 7 | X |
| K07VJ2N | 16.3 | 0.15 | K145N | 94.661 | 357.629 | 90.414 | 9.503 | 0.21153 | 3.01011 | 3 | X |
| K07VS2F | 16.1 | 0.15 | K145N | 312.133 | 38.584 | 238.369 | 13.064 | 0.07755 | 2.67603 | 5 | X |
| K07VS4S | 17.1 | 0.15 | K145N | 291.731 | 216.255 | 68.875 | 7.308 | 0.02211 | 2.74869 | 4 | X |
| K07VV4Q | 16.3 | 0.15 | K145N | 238.130 | 236.380 | 99.589 | 7.214 | 0.06850 | 2.69635 | 6 | X |
| K07W52O | 16.5 | 0.15 | K145N | 109.944 | 304.468 | 132.736 | 9.233 | 0.17687 | 3.05746 | 5 | X |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|---|---|
| K07X53E | 15.5 | 0.15 | K145N | 330.423 | 287.272 | 305.480 | 12.815 | 0.17405 | 3.07276 | 4 | X |
| K07Y63A | 16.9 | 0.15 | K145N | 115.516 | 320.188 | 122.257 | 10.191 | 0.12115 | 3.00952 | 5 | X |
| K08A01L | 16.1 | 0.15 | K145N | 37.869 | 83.113 | 85.234 | 10.786 | 0.02985 | 2.96291 | 5 | X |
| K08A28F | 15.9 | 0.15 | K145N | 335.208 | 103.100 | 151.197 | 13.841 | 0.26226 | 3.17719 | 6 | X |
| K08A37O | 17.1 | 0.15 | K145N | 77.331 | 154.273 | 310.125 | 2.553 | 0.17777 | 3.08865 | 3 | X |
| K08A48V | 16.5 | 0.15 | K145N | 105.510 | 344.774 | 106.616 | 12.550 | 0.11138 | 2.96341 | 4 | X |
| K08A94F | 16.3 | 0.15 | K145N | 258.570 | 210.562 | 116.581 | 9.889 | 0.16952 | 2.86130 | 7 | X |
| K08B11Y | 16.7 | 0.15 | K145N | 37.496 | 48.606 | 111.929 | 8.750 | 0.17854 | 3.08447 | 5 | X |
| K08B20U | 16.2 | 0.15 | K145N | 135.096 | 274.837 | 148.302 | 11.113 | 0.10959 | 3.07551 | 5 | X |
| K08C11W | 15.9 | 0.15 | K145N | 78.263 | 346.813 | 131.868 | 10.159 | 0.01985 | 3.12381 | 4 | X |
| K08C19D | 16.4 | 0.15 | K145N | 337.888 | 85.583 | 157.555 | 16.314 | 0.18197 | 3.16442 | 6 | X |
| K08C50A | 15.7 | 0.15 | K145N | 103.796 | 312.452 | 126.038 | 9.767 | 0.20045 | 3.08969 | 7 | X |
| K08CA5W | 15.6 | 0.15 | K145N | 84.944 | 104.824 | 3.052 | 9.144 | 0.04637 | 3.12764 | 7 | X |
| K08CH4U | 16.8 | 0.15 | K145N | 320.567 | 72.662 | 184.686 | 8.687 | 0.13523 | 3.08776 | 5 | X |
| K08CI3V | 15.4 | 0.15 | K145N | 62.542 | 27.006 | 116.338 | 10.510 | 0.01916 | 3.17729 | 4 | X |
| K08CJ1L | 16.6 | 0.15 | K145N | 77.824 | 326.321 | 159.324 | 13.553 | 0.06822 | 3.09626 | 4 | X |
| K08CJ2D | 16.4 | 0.15 | K145N | 116.209 | 285.078 | 148.415 | 11.534 | 0.22294 | 3.13728 | 7 | X |
| K08CJ2H | 16.5 | 0.15 | K145N | 5.395 | 35.696 | 166.869 | 15.022 | 0.19158 | 3.21175 | 3 | X |
| K08D56K | 16.0 | 0.15 | K145N | 77.235 | 86.856 | 20.107 | 18.093 | 0.16508 | 3.17382 | 4 | X |
| K08D62Y | 16.1 | 0.15 | K145N | 130.748 | 286.788 | 146.102 | 10.610 | 0.05714 | 3.12494 | 7 | X |
| K08D75C | 16.2 | 0.15 | K145N | 33.656 | 166.500 | 355.264 | 10.253 | 0.15271 | 3.16416 | 2 | X |
| K08D88X | 15.7 | 0.15 | K145N | 242.658 | 172.886 | 160.410 | 14.528 | 0.15504 | 3.11518 | 6 | X |
| K08E07K | 16.2 | 0.15 | K145N | 27.644 | 120.802 | 47.727 | 14.844 | 0.20654 | 3.19822 | 3 | X |
| K08E56N | 16.6 | 0.15 | K145N | 325.812 | 104.663 | 151.796 | 10.802 | 0.17065 | 3.08415 | 4 | X |
| K08F10O | 16.4 | 0.15 | K145N | 95.704 | 276.370 | 180.083 | 9.144 | 0.07379 | 3.17157 | 5 | X |
| K08F25J | 16.9 | 0.15 | K145N | 345.234 | 190.803 | 57.321 | 2.633 | 0.17176 | 3.11731 | 4 | X |
| K08FA5J | 16.9 | 0.15 | K145N | 349.352 | 126.497 | 116.438 | 3.685 | 0.09260 | 3.18453 | 5 | X |
| K08FC2B | 16.7 | 0.15 | K145N | 12.538 | 41.187 | 176.620 | 17.109 | 0.18433 | 3.16920 | 3 | X |
| K08G94P | 17.1 | 0.15 | K145N | 29.714 | 17.841 | 170.965 | 0.688 | 0.11178 | 3.17755 | 3 | W |
| K08GA4Y | 15.6 | 0.15 | K145N | 245.226 | 280.534 | 47.809 | 15.665 | 0.14389 | 3.38405 | 4 | X |
| K08R43U | 13.8 | 0.15 | K145N | 151.399 | 18.758 | 5.643 | 6.778 | 0.10155 | 5.30324 | 6 | X |
| K08SB8B | 17.1 | 0.15 | K145N | 231.794 | 338.676 | 14.934 | 4.197 | 0.06618 | 2.34104 | 6 | X |
| K08SJ1C | 18.3 | 0.15 | K145N | 323.174 | 273.615 | 340.629 | 7.306 | 0.07846 | 2.31176 | 2 | X |
| K08ST4B | 17.7 | 0.15 | K145N | 283.323 | 192.269 | 127.337 | 6.958 | 0.28150 | 2.21535 | 5 | X |
| K08T05Y | 17.5 | 0.15 | K145N | 235.584 | 333.481 | 8.685 | 6.821 | 0.13075 | 2.33993 | 2 | X |
| K08T48K | 17.6 | 0.15 | K145N | 279.285 | 294.610 | 7.460 | 6.869 | 0.21386 | 2.23599 | 4 | X |
| K08TF8R | 14.0 | 0.15 | K145N | 68.944 | 284.792 | 196.075 | 24.511 | 0.08356 | 5.19159 | 3 | X |
| K08U91A | 16.7 | 0.15 | K145N | 108.959 | 287.924 | 140.300 | 10.238 | 0.32436 | 2.60313 | 4 | X |
| K08U92K | 16.4 | 0.15 | K145N | 88.012 | 32.718 | 65.140 | 13.305 | 0.22742 | 2.54546 | 6 | X |
| K08UI2T | 17.6 | 0.15 | K145N | 316.811 | 156.938 | 78.348 | 2.625 | 0.13903 | 2.45168 | 7 | X |
| K08UN4T | 17.5 | 0.15 | K145N | 247.398 | 86.276 | 235.941 | 6.642 | 0.02985 | 2.38151 | 6 | X |
| K08UQ4B | 17.2 | 0.15 | K145N | 201.122 | 331.008 | 39.465 | 5.295 | 0.18774 | 2.30175 | 5 | X |
| K08UT2V | 17.0 | 0.15 | K145N | 259.376 | 63.135 | 241.811 | 6.134 | 0.13412 | 2.31013 | 5 | X |
| K08UZ1V | 16.6 | 0.15 | K145N | 92.318 | 1.105 | 89.889 | 10.130 | 0.22886 | 2.70712 | 4 | X |
| K08V34D | 17.4 | 0.15 | K145N | 86.903 | 264.504 | 185.421 | 4.777 | 0.23156 | 2.61691 | 5 | X |
| K08V79U | 16.5 | 0.15 | K145N | 94.285 | 27.227 | 56.896 | 13.154 | 0.28117 | 2.65993 | 4 | X |
| K08W13G | 16.9 | 0.15 | K145N | 192.278 | 295.415 | 83.359 | 12.961 | 0.24187 | 2.43280 | 3 | X |
| K08W28S | 17.9 | 0.15 | K145N | 257.016 | 110.933 | 221.208 | 3.991 | 0.25102 | 2.31753 | 3 | X |
| K08W65K | 17.8 | 0.15 | K145N | 311.033 | 248.719 | 31.371 | 7.489 | 0.12275 | 2.33631 | 3 | X |
| K08WD6A | 17.1 | 0.15 | K145N | 76.785 | 15.186 | 94.029 | 7.946 | 0.17597 | 2.65153 | 4 | X |
| K08Y00K | 16.9 | 0.15 | K145N | 172.074 | 324.915 | 67.394 | 7.974 | 0.08145 | 2.60787 | 5 | X |
| K09B16Z | 16.7 | 0.15 | K145N | 112.684 | 9.334 | 92.850 | 3.290 | 0.11922 | 2.61797 | 7 | X |
| K09B68G | 17.5 | 0.15 | K145N | 86.033 | 135.153 | 322.751 | 7.162 | 0.18512 | 2.78786 | 2 | X |
| K09BB0T | 16.8 | 0.15 | K145N | 272.647 | 272.554 | 31.099 | 3.965 | 0.08162 | 2.76511 | 4 | X |
| K09BC9H | 17.1 | 0.15 | K145N | 157.853 | 47.965 | 351.573 | 5.435 | 0.12583 | 2.71861 | 4 | X |
| K09BH1L | 17.1 | 0.15 | K145N | 5.307 | 207.556 | 10.993 | 2.686 | 0.12105 | 2.72182 | 4 | X |
| K09D11T | 16.3 | 0.15 | K145N | 53.054 | 355.961 | 148.218 | 10.989 | 0.14255 | 2.76700 | 5 | X |
| K09D59Y | 16.6 | 0.15 | K145N | 39.965 | 27.310 | 140.858 | 8.370 | 0.00607 | 2.81335 | 6 | X |
| K09D64W | 16.6 | 0.15 | K145N | 66.216 | 297.347 | 178.817 | 12.095 | 0.10494 | 2.93932 | 4 | X |
| K09DA9B | 16.7 | 0.15 | K145N | 92.769 | 318.010 | 141.946 | 14.102 | 0.15581 | 2.79207 | 4 | X |
| K09DC4E | 17.2 | 0.15 | K145N | 34.474 | 135.732 | 347.244 | 10.195 | 0.21852 | 3.00321 | 3 | X |
| K09DD4N | 15.8 | 0.15 | K145N | 18.866 | 315.604 | 204.288 | 29.224 | 0.23053 | 3.07855 | 5 | X |
| K09DE1P | 17.0 | 0.15 | K145N | 12.266 | 153.913 | 10.754 | 11.444 | 0.12541 | 3.00974 | 2 | X |
| K09F13L | 16.1 | 0.15 | K145N | 322.018 | 211.263 | 357.586 | 10.136 | 0.01502 | 3.04048 | 5 | X |
| K09F26C | 17.2 | 0.15 | K145N | 42.479 | 356.507 | 151.221 | 10.052 | 0.24604 | 2.79427 | 5 | X |
| K09F72W | 16.6 | 0.15 | K145N | 83.101 | 54.243 | 49.365 | 2.240 | 0.03319 | 3.02381 | 4 | X |
| K09G06E | 16.5 | 0.15 | K145N | 39.104 | 89.132 | 67.611 | 8.940 | 0.13590 | 2.98030 | 5 | X |
| K09G06F | 15.9 | 0.15 | K145N | 281.589 | 212.105 | 109.979 | 10.067 | 0.32780 | 3.04708 | 6 | X |
| K09H15W | 15.7 | 0.15 | K145N | 96.671 | 269.442 | 156.025 | 12.092 | 0.05418 | 3.12229 | 5 | X |
| K09H22R | 15.9 | 0.15 | K145N | 212.682 | 164.821 | 175.321 | 11.116 | 0.07777 | 3.11434 | 5 | X |
| K09H32A | 16.4 | 0.15 | K145N | 88.402 | 29.237 | 81.714 | 6.751 | 0.13763 | 2.93803 | 4 | X |
| K09H39C | 16.3 | 0.15 | K145N | 343.803 | 121.803 | 119.552 | 7.906 | 0.23484 | 2.96942 | 7 | X |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|----------|---|---|
| K09H49O | 17.1 | 0.15 | K145N | 57.879 | 22.404 | 100.272 | 7.744 | 0.18669 | 2.93965 | 5 | X |
| K09H82Q | 17.8 | 0.15 | K145N | 158.899 | 15.761 | 33.257 | 22.127 | 0.07117 | 1.87209 | 3 | X |
| K09H83J | 16.3 | 0.15 | K145N | 295.014 | 161.127 | 122.368 | 11.246 | 0.06866 | 2.99691 | 5 | X |
| K09H99R | 16.6 | 0.15 | K145N | 302.721 | 63.924 | 217.722 | 10.517 | 0.13097 | 2.98879 | 4 | X |
| K09HA0G | 17.0 | 0.15 | K145N | 15.629 | 74.764 | 111.950 | 8.029 | 0.20590 | 3.02814 | 3 | X |
| K09HA4H | 16.5 | 0.15 | K145N | 330.968 | 128.659 | 131.626 | 10.754 | 0.21239 | 2.98417 | 5 | X |
| K09J01L | 21.0 | 0.15 | K145N | 221.465 | 289.518 | 69.607 | 11.508 | 0.17086 | 1.17998 | 2 | X |
| K09J08H | 16.2 | 0.15 | K145N | 324.656 | 171.969 | 80.287 | 13.621 | 0.09070 | 3.01767 | 4 | X |
| K09J17Z | 16.6 | 0.15 | K145N | 26.114 | 87.506 | 92.172 | 10.058 | 0.07445 | 3.05757 | 6 | X |
| K09K14G | 16.5 | 0.15 | K145N | 276.087 | 151.300 | 156.014 | 14.394 | 0.13305 | 3.07930 | 6 | X |
| K09K24C | 16.2 | 0.15 | K145N | 140.619 | 253.902 | 165.945 | 15.183 | 0.11837 | 3.10418 | 4 | X |
| K09Q21R | 15.7 | 0.15 | K145N | 334.099 | 137.476 | 148.807 | 28.682 | 0.23874 | 3.17006 | 5 | X |
| K09S08D | 14.4 | 0.15 | K145N | 67.206 | 319.798 | 143.426 | 4.006 | 0.10588 | 5.31193 | 4 | X |
| K09ST9Z | 13.7 | 0.15 | K145N | 166.307 | 260.433 | 96.548 | 6.117 | 0.08478 | 5.22989 | 5 | X |
| K09U82P | 13.4 | 0.15 | K145N | 187.831 | 293.991 | 70.071 | 11.609 | 0.02745 | 5.19771 | 5 | X |
| K09W37J | 17.7 | 0.15 | K145N | 53.083 | 102.049 | 54.550 | 8.043 | 0.10420 | 2.21540 | 4 | X |
| K09Y04N | 18.0 | 0.15 | K145N | 31.835 | 91.237 | 86.618 | 5.224 | 0.18321 | 2.35014 | 3 | X |
| K09Y12J | 18.2 | 0.15 | K145N | 18.513 | 124.531 | 78.527 | 5.979 | 0.15961 | 2.28137 | 3 | X |
| K10A49U | 17.2 | 0.15 | K145N | 342.965 | 44.513 | 177.700 | 5.211 | 0.18050 | 2.41406 | 4 | X |
| K10A53J | 18.0 | 0.15 | K145N | 70.770 | 309.992 | 159.462 | 5.119 | 0.15474 | 2.41845 | 5 | X |
| K10A62H | 17.7 | 0.15 | K145N | 122.537 | 324.719 | 103.780 | 5.104 | 0.17479 | 2.28613 | 5 | X |
| K10A70F | 16.9 | 0.15 | K145N | 87.849 | 83.008 | 359.441 | 5.978 | 0.12096 | 2.41822 | 7 | X |
| K10A80R | 17.4 | 0.15 | K145N | 37.491 | 345.147 | 174.521 | 1.307 | 0.12863 | 2.37232 | 7 | X |
| K10CB4X | 17.7 | 0.15 | K145N | 51.072 | 147.631 | 15.445 | 2.872 | 0.12590 | 2.36437 | 7 | X |
| K10CG1S | 17.5 | 0.15 | K145N | 39.444 | 143.665 | 343.133 | 9.329 | 0.14676 | 2.58487 | 5 | X |
| K10CI2B | 17.9 | 0.15 | K145N | 343.219 | 61.302 | 171.570 | 2.586 | 0.14817 | 2.41560 | 5 | X |
| K10CI3M | 17.7 | 0.15 | K145N | 20.017 | 3.497 | 150.937 | 6.474 | 0.22889 | 2.58421 | 3 | X |
| K10DI2H | 16.6 | 0.15 | K145N | 35.835 | 44.931 | 134.622 | 21.463 | 0.15107 | 2.38534 | 5 | X |
| K10E20H | 18.0 | 0.15 | K145N | 315.971 | 207.648 | 120.782 | 23.888 | 0.52356 | 2.62112 | 3 | X |
| K10E68S | 17.5 | 0.15 | K145N | 357.404 | 161.475 | 71.748 | 2.429 | 0.14248 | 2.43697 | 6 | X |
| K10E80T | 16.7 | 0.15 | K145N | 276.784 | 155.952 | 165.715 | 12.781 | 0.27477 | 2.41364 | 5 | X |
| K10ED5W | 17.5 | 0.15 | K145N | 341.906 | 59.252 | 172.909 | 7.632 | 0.12609 | 2.56364 | 2 | X |
| K10ED8J | 16.9 | 0.15 | K145N | 6.093 | 166.310 | 34.080 | 16.075 | 0.05857 | 2.56935 | 4 | X |
| K10G25M | 16.6 | 0.15 | K145N | 342.624 | 71.957 | 149.430 | 7.764 | 0.16498 | 2.60214 | 5 | X |
| K10G32N | 17.1 | 0.15 | K145N | 5.023 | 111.412 | 95.942 | 7.482 | 0.15773 | 2.54839 | 6 | X |
| K10G32Q | 17.7 | 0.15 | K145N | 336.879 | 147.237 | 102.348 | 3.979 | 0.13166 | 2.51830 | 4 | X |
| K10G65F | 7.2 | 0.15 | K145N | 333.135 | 284.817 | 0.435 | 12.410 | 0.33561 | 33.27258 | 2 | W |
| K10GB5A | 17.7 | 0.15 | K145N | 52.474 | 124.978 | 24.539 | 5.808 | 0.19055 | 2.53535 | 5 | X |
| K10GB7G | 16.9 | 0.15 | K145N | 28.549 | 45.550 | 143.938 | 6.804 | 0.01535 | 2.57551 | 9 | X |
| K10GE7B | 17.2 | 0.15 | K145N | 288.986 | 170.590 | 127.763 | 6.669 | 0.17323 | 2.54343 | 9 | X |
| K10H78K | 16.5 | 0.15 | K145N | 117.614 | 232.582 | 218.823 | 21.255 | 0.14114 | 2.57436 | 5 | X |
| K10JB4V | 16.8 | 0.15 | K145N | 332.969 | 189.764 | 56.205 | 15.321 | 0.12768 | 2.58506 | 4 | X |
| K10JF4E | 17.2 | 0.15 | K145N | 44.041 | 101.147 | 44.923 | 13.819 | 0.19984 | 2.60078 | 4 | X |
| K10K81Z | 16.2 | 0.15 | K145N | 256.266 | 154.026 | 157.766 | 5.442 | 0.18059 | 3.15953 | 6 | X |
| K10L15R | 15.7 | 0.15 | K145N | 173.763 | 197.459 | 153.409 | 23.121 | 0.10403 | 3.09094 | 6 | X |
| K10L34W | 16.7 | 0.15 | K145N | 25.272 | 345.566 | 206.902 | 11.766 | 0.05847 | 2.62691 | 6 | X |
| K10L67Q | 16.7 | 0.15 | K145N | 357.148 | 123.116 | 101.283 | 5.022 | 0.17033 | 2.58562 | 6 | X |
| K10LD0Z | 15.5 | 0.15 | K145N | 278.794 | 292.825 | 4.396 | 25.922 | 0.24249 | 3.08246 | 4 | X |
| K10L03G | 17.0 | 0.15 | K145N | 349.417 | 194.382 | 64.122 | 26.957 | 0.56704 | 2.60466 | 2 | X |
| K10O06N | 16.0 | 0.15 | K145N | 300.711 | 271.476 | 17.477 | 25.757 | 0.22060 | 3.12139 | 2 | X |
| K10R96Q | 16.0 | 0.15 | K145N | 277.572 | 314.219 | 14.606 | 4.543 | 0.19249 | 3.06146 | 4 | X |
| K10RA1T | 16.5 | 0.15 | K145N | 317.785 | 78.824 | 203.023 | 11.782 | 0.17461 | 3.06265 | 6 | X |
| K10RC4A | 16.1 | 0.15 | K145N | 280.336 | 130.344 | 180.734 | 26.715 | 0.17877 | 3.12374 | 4 | X |
| K10T97O | 16.8 | 0.15 | K145N | 313.716 | 252.922 | 20.023 | 12.855 | 0.11364 | 3.20951 | 3 | X |
| K11C02K | 17.2 | 0.15 | K145N | 56.146 | 57.547 | 88.529 | 23.982 | 0.08788 | 1.91677 | 4 | X |
| K11C50H | 21.8 | 0.15 | K145N | 15.734 | 269.171 | 282.409 | 1.751 | 0.48463 | 2.09557 | 2 | X |
| K11C66B | 17.1 | 0.15 | K145N | 357.754 | 226.022 | 6.888 | 31.557 | 0.24951 | 2.00017 | 5 | X |
| K11E12A | 17.0 | 0.15 | K145N | 187.723 | 274.905 | 121.294 | 23.292 | 0.11987 | 1.92989 | 6 | X |
| K11G69F | 18.3 | 0.15 | K145N | 293.628 | 141.439 | 157.028 | 1.765 | 0.20524 | 2.11474 | 4 | X |
| K11H22C | 18.1 | 0.15 | K145N | 25.489 | 37.642 | 114.965 | 3.787 | 0.10377 | 2.23969 | 4 | X |
| K11H70H | 18.3 | 0.15 | K145N | 305.858 | 251.540 | 21.278 | 3.253 | 0.17375 | 2.15799 | 2 | X |
| K11O16K | 16.9 | 0.15 | K145N | 254.412 | 232.475 | 94.052 | 5.315 | 0.17496 | 2.42260 | 8 | X |
| K11O17K | 16.1 | 0.15 | K145N | 295.145 | 286.139 | 339.773 | 12.629 | 0.21111 | 2.42719 | 7 | X |
| K11O20R | 18.0 | 0.15 | K145N | 321.569 | 155.210 | 116.947 | 5.547 | 0.22774 | 2.24604 | 6 | X |
| K11O23S | 18.2 | 0.15 | K145N | 341.155 | 173.267 | 77.484 | 4.434 | 0.18233 | 2.22747 | 4 | X |
| K11O27S | 17.0 | 0.15 | K145N | 294.528 | 278.731 | 343.275 | 5.985 | 0.18467 | 2.42984 | 6 | X |
| K11P11E | 17.3 | 0.15 | K145N | 307.897 | 160.984 | 137.401 | 9.246 | 0.29598 | 2.27014 | 4 | X |
| K11Q22C | 18.4 | 0.15 | K145N | 287.572 | 358.094 | 309.454 | 4.704 | 0.24115 | 2.35101 | 2 | X |
| K11Q34V | 17.2 | 0.15 | K145N | 252.477 | 148.483 | 184.779 | 4.483 | 0.18873 | 2.42618 | 6 | X |
| K11Q42W | 17.9 | 0.15 | K145N | 337.608 | 263.663 | 347.484 | 3.010 | 0.09555 | 2.39152 | 6 | X |
| K11R10Z | 17.2 | 0.15 | K145N | 214.055 | 166.008 | 186.661 | 6.429 | 0.08014 | 2.72710 | 5 | X |
| K11R11P | 16.9 | 0.15 | K145N | 207.970 | 164.642 | 192.999 | 6.030 | 0.06209 | 2.81386 | 6 | X |

| | | | | | | | | | | | |
|----------|------|------|-------|---------|---------|---------|--------|---------|----------|---|---|
| K11R17Z | 16.4 | 0.15 | K145N | 75.003 | 258.088 | 205.474 | 12.180 | 0.04584 | 3.21453 | 7 | X |
| K11S04W | 17.9 | 0.15 | K145N | 284.336 | 128.090 | 196.570 | 4.400 | 0.24286 | 2.36472 | 6 | X |
| K11S43Z | 18.2 | 0.15 | K145N | 307.524 | 47.586 | 251.278 | 1.709 | 0.24365 | 2.32553 | 4 | X |
| K11S51B | 17.7 | 0.15 | K145N | 297.055 | 289.242 | 17.003 | 1.408 | 0.19606 | 2.39277 | 4 | X |
| K11S74C | 16.4 | 0.15 | K145N | 217.329 | 162.139 | 209.827 | 14.986 | 0.15714 | 2.61880 | 4 | X |
| K11S89R | 16.3 | 0.15 | K145N | 161.767 | 27.044 | 6.468 | 11.549 | 0.06113 | 3.10540 | 4 | X |
| K11S95H | 17.3 | 0.15 | K145N | 138.765 | 108.869 | 314.699 | 1.133 | 0.05510 | 2.89981 | 3 | X |
| K11SA8X | 16.3 | 0.15 | K145N | 278.659 | 278.311 | 344.994 | 8.540 | 0.09448 | 2.84480 | 5 | X |
| K11SB0X | 16.7 | 0.15 | K145N | 259.302 | 294.081 | 14.732 | 3.549 | 0.16738 | 2.72347 | 6 | X |
| K11SB6Q | 16.8 | 0.15 | K145N | 257.652 | 295.852 | 23.392 | 8.869 | 0.11338 | 2.62362 | 6 | X |
| K11SG9T | 15.9 | 0.15 | K145N | 73.179 | 105.506 | 21.880 | 11.435 | 0.04311 | 3.08141 | 3 | X |
| K11SI8U | 15.5 | 0.15 | K145N | 330.218 | 223.124 | 26.669 | 34.742 | 0.17270 | 2.77930 | 6 | X |
| K11SP0C | 16.4 | 0.15 | K145N | 307.476 | 255.687 | 13.379 | 15.143 | 0.12229 | 2.66511 | 5 | X |
| K11SQ5C | 17.2 | 0.15 | K145N | 217.974 | 165.717 | 193.157 | 6.295 | 0.06573 | 2.75484 | 8 | X |
| K11SQ8W | 16.2 | 0.15 | K145N | 162.310 | 1.979 | 28.583 | 11.190 | 0.11094 | 3.07309 | 7 | X |
| K11TI13C | 16.3 | 0.15 | K145N | 295.798 | 295.341 | 336.114 | 2.816 | 0.07828 | 2.98691 | 7 | X |
| K11U30F | 16.5 | 0.15 | K145N | 268.659 | 275.923 | 55.163 | 12.704 | 0.19581 | 2.67352 | 5 | X |
| K11UC6W | 16.8 | 0.15 | K145N | 293.649 | 265.009 | 35.716 | 11.980 | 0.17748 | 2.69116 | 3 | X |
| K11UD5N | 17.9 | 0.15 | K145N | 317.050 | 79.364 | 209.254 | 15.258 | 0.25529 | 2.41614 | 5 | X |
| K11UE0Z | 15.8 | 0.15 | K145N | 175.065 | 324.612 | 62.216 | 11.193 | 0.02563 | 3.14829 | 5 | X |
| K11UG2A | 16.0 | 0.15 | K145N | 240.582 | 269.397 | 80.550 | 13.156 | 0.26146 | 2.76544 | 7 | X |
| K11UI5Q | 15.7 | 0.15 | K145N | 107.720 | 48.783 | 66.598 | 22.240 | 0.11605 | 3.19684 | 5 | X |
| K11UJ6T | 16.1 | 0.15 | K145N | 225.252 | 332.659 | 22.210 | 10.690 | 0.05188 | 3.00918 | 5 | X |
| K11UK5W | 16.9 | 0.15 | K145N | 270.524 | 232.572 | 94.714 | 10.254 | 0.24407 | 2.47066 | 5 | X |
| K11UL1S | 16.5 | 0.15 | K145N | 343.992 | 247.202 | 358.276 | 9.297 | 0.11223 | 2.71908 | 6 | X |
| K11US3Y | 16.5 | 0.15 | K145N | 255.908 | 268.616 | 63.507 | 12.090 | 0.19595 | 2.71012 | 4 | X |
| K11UT0V | 16.0 | 0.15 | K145N | 191.289 | 243.736 | 123.368 | 9.809 | 0.07962 | 3.10914 | 7 | X |
| K11UU5V | 16.4 | 0.15 | K145N | 248.146 | 252.944 | 79.375 | 14.046 | 0.12057 | 2.72999 | 5 | X |
| K11UW6L | 16.5 | 0.15 | K145N | 188.241 | 231.209 | 144.504 | 11.035 | 0.11520 | 2.99390 | 4 | X |
| K11UZ9A | 15.9 | 0.15 | K145N | 302.126 | 257.472 | 28.755 | 11.023 | 0.07369 | 2.98843 | 5 | X |
| K11Ua3A | 16.9 | 0.15 | K145N | 261.165 | 296.211 | 36.329 | 5.084 | 0.10203 | 2.76737 | 7 | X |
| K11Ue6P | 17.0 | 0.15 | K145N | 274.099 | 218.680 | 101.638 | 9.368 | 0.21207 | 2.54886 | 7 | X |
| K11W54R | 15.6 | 0.15 | K145N | 351.018 | 161.395 | 55.409 | 13.920 | 0.02410 | 3.13148 | 8 | X |
| K11W95M | 16.0 | 0.15 | K145N | 267.256 | 260.317 | 48.843 | 13.471 | 0.10910 | 3.09724 | 5 | X |
| K11WD0R | 15.9 | 0.15 | K145N | 252.436 | 240.779 | 76.727 | 11.696 | 0.04419 | 3.22704 | 4 | X |
| K11Y21G | 14.8 | 0.15 | K145N | 289.991 | 214.557 | 95.713 | 29.780 | 0.18034 | 3.16880 | 4 | X |
| K11Y62A | 15.7 | 0.15 | K145N | 212.915 | 298.034 | 65.920 | 17.460 | 0.23397 | 3.12014 | 4 | X |
| K12G17X | 7.8 | 0.15 | K145N | 40.159 | 243.809 | 209.220 | 32.545 | 0.54243 | 37.21044 | 2 | W |
| K12K11E | 17.8 | 0.15 | K145N | 179.255 | 198.422 | 164.020 | 23.847 | 0.07680 | 1.88290 | 5 | X |
| K12O05T | 21.8 | 0.15 | K145N | 338.767 | 147.740 | 129.204 | 5.753 | 0.25961 | 1.60192 | 2 | X |
| K12P16U | 17.6 | 0.15 | K145N | 207.801 | 19.024 | 331.822 | 20.326 | 0.04525 | 1.92240 | 5 | X |
| K12S23D | 16.9 | 0.15 | K145N | 75.236 | 274.340 | 178.485 | 9.679 | 0.22122 | 2.73628 | 3 | X |
| K12S54Q | 16.7 | 0.15 | K145N | 95.734 | 72.261 | 30.280 | 12.422 | 0.21814 | 2.55692 | 4 | X |
| K12T06D | 17.2 | 0.15 | K145N | 125.052 | 50.036 | 4.413 | 12.586 | 0.15879 | 2.45398 | 4 | X |
| K12T15Q | 17.7 | 0.15 | K145N | 257.180 | 307.591 | 28.312 | 22.176 | 0.08741 | 1.89092 | 5 | X |
| K12T47B | 17.6 | 0.15 | K145N | 84.945 | 186.913 | 268.994 | 5.300 | 0.09483 | 2.39934 | 4 | X |
| K12T60G | 17.3 | 0.15 | K145N | 106.817 | 50.788 | 30.586 | 9.002 | 0.18235 | 2.43749 | 4 | X |
| K12TI0K | 17.4 | 0.15 | K145N | 47.513 | 143.355 | 354.150 | 12.599 | 0.24431 | 2.59351 | 3 | X |
| K12TQ8N | 17.5 | 0.15 | K145N | 35.988 | 345.691 | 155.683 | 14.140 | 0.09861 | 2.60091 | 2 | X |
| K12TT0Y | 16.8 | 0.15 | K145N | 58.971 | 78.796 | 46.125 | 13.164 | 0.16339 | 2.75000 | 5 | X |
| K12U05W | 17.8 | 0.15 | K145N | 343.337 | 36.691 | 173.293 | 3.790 | 0.14064 | 2.25221 | 4 | X |
| K12U28Y | 16.0 | 0.15 | K145N | 149.645 | 16.519 | 12.911 | 13.236 | 0.22473 | 2.56189 | 4 | X |
| K12U41G | 17.7 | 0.15 | K145N | 169.535 | 215.977 | 182.770 | 3.175 | 0.04854 | 2.17638 | 6 | X |
| K12U59Y | 16.8 | 0.15 | K145N | 66.040 | 92.367 | 24.840 | 13.029 | 0.15771 | 2.72553 | 4 | X |
| K12U60T | 17.1 | 0.15 | K145N | 2.371 | 159.293 | 58.543 | 8.206 | 0.06392 | 2.23264 | 6 | X |
| K12U67O | 17.5 | 0.15 | K145N | 142.444 | 210.119 | 189.230 | 14.084 | 0.25793 | 2.60859 | 3 | X |
| K12UA5C | 15.8 | 0.15 | K145N | 72.332 | 100.417 | 341.212 | 15.240 | 0.14751 | 3.07086 | 4 | X |
| K12UF1U | 17.2 | 0.15 | K145N | 105.301 | 32.484 | 56.367 | 13.818 | 0.12925 | 2.57466 | 4 | X |
| K12UF9C | 17.7 | 0.15 | K145N | 213.279 | 325.101 | 22.985 | 8.073 | 0.10123 | 2.24676 | 3 | X |
| K12UG1X | 15.3 | 0.15 | K145N | 357.175 | 132.405 | 40.590 | 28.457 | 0.21710 | 3.18889 | 5 | X |
| K12V21H | 16.4 | 0.15 | K145N | 48.382 | 98.251 | 45.239 | 12.533 | 0.17189 | 2.65438 | 4 | X |
| K12V26V | 17.3 | 0.15 | K145N | 121.143 | 36.041 | 28.531 | 5.556 | 0.09229 | 2.44850 | 3 | X |
| K12V51P | 17.5 | 0.15 | K145N | 4.764 | 67.772 | 124.586 | 3.059 | 0.01961 | 2.65900 | 8 | X |
| K12V60P | 17.6 | 0.15 | K145N | 53.779 | 84.056 | 68.321 | 6.583 | 0.12145 | 2.48485 | 4 | X |
| K12V61G | 17.1 | 0.15 | K145N | 52.462 | 36.541 | 90.158 | 1.048 | 0.19843 | 3.00884 | 4 | X |
| K12V61S | 16.4 | 0.15 | K145N | 107.438 | 358.144 | 68.450 | 6.921 | 0.16577 | 2.78838 | 6 | X |
| K12V86X | 16.5 | 0.15 | K145N | 34.141 | 123.793 | 41.386 | 14.847 | 0.13257 | 2.66092 | 4 | X |
| K12V88Q | 16.7 | 0.15 | K145N | 58.101 | 82.532 | 73.496 | 7.854 | 0.04982 | 2.35345 | 5 | X |
| K12V90F | 17.5 | 0.15 | K145N | 18.252 | 113.296 | 72.913 | 7.896 | 0.09606 | 2.53204 | 6 | X |
| K12V92S | 16.5 | 0.15 | K145N | 44.633 | 68.607 | 75.084 | 10.197 | 0.20143 | 3.04980 | 5 | X |
| K12V97X | 16.3 | 0.15 | K145N | 142.858 | 244.535 | 133.337 | 8.469 | 0.24593 | 2.75784 | 6 | X |
| K12VB2S | 16.7 | 0.15 | K145N | 120.881 | 300.523 | 128.641 | 9.966 | 0.25162 | 2.65656 | 6 | X |

| | | | | | | | | | | | |
|----------------|-------------|-------------|--------------|----------------|----------------|----------------|---------------|----------------|----------------|----------|----------|
| K12W18Y | 15.6 | 0.15 | K145N | 76.608 | 56.869 | 55.165 | 22.511 | 0.04166 | 2.67429 | 4 | X |
| K12W29Z | 17.7 | 0.15 | K145N | 46.184 | 310.047 | 215.410 | 5.098 | 0.09319 | 2.39708 | 5 | X |
| K12X34H | 16.7 | 0.15 | K145N | 58.328 | 252.799 | 246.740 | 4.385 | 0.21570 | 2.98313 | 6 | X |
| K12X64N | 16.9 | 0.15 | K145N | 39.228 | 328.569 | 206.335 | 9.184 | 0.13876 | 2.58910 | 5 | X |
| K12X80N | 17.1 | 0.15 | K145N | 164.382 | 281.382 | 114.853 | 7.459 | 0.17408 | 2.40296 | 4 | X |
| K12XD0T | 16.8 | 0.15 | K145N | 66.081 | 32.893 | 110.276 | 5.015 | 0.06708 | 2.57651 | 10 | X |
| K12XF7R | 5.9 | 0.15 | K145N | 44.249 | 143.030 | 223.647 | 30.030 | 0.23747 | 48.32193 | 2 | W |
| K12Y04E | 16.6 | 0.15 | K145N | 261.312 | 288.167 | 37.069 | 7.151 | 0.19157 | 2.48378 | 5 | X |
| K12Y04V | 16.6 | 0.15 | K145N | 125.358 | 340.357 | 108.414 | 5.316 | 0.03249 | 2.78380 | 7 | X |
| K13A07U | 16.2 | 0.15 | K145N | 155.276 | 275.782 | 130.151 | 11.850 | 0.16257 | 3.06522 | 6 | X |
| K13A18A | 15.6 | 0.15 | K145N | 110.217 | 343.344 | 114.104 | 10.485 | 0.02360 | 3.15296 | 9 | X |
| K13A49V | 17.0 | 0.15 | K145N | 291.619 | 281.210 | 25.668 | 7.616 | 0.11682 | 2.42890 | 4 | X |
| K13A74D | 16.5 | 0.15 | K145N | 169.321 | 24.926 | 24.020 | 8.904 | 0.20042 | 2.56271 | 4 | X |
| K13A75B | 15.8 | 0.15 | K145N | 300.678 | 240.087 | 42.302 | 13.490 | 0.15649 | 2.70626 | 6 | X |
| K13A75F | 16.0 | 0.15 | K145N | 317.246 | 244.515 | 29.216 | 9.264 | 0.07738 | 2.72462 | 8 | X |
| K13A83J | 16.3 | 0.15 | K145N | 68.332 | 71.865 | 69.409 | 9.763 | 0.02694 | 3.00229 | 6 | X |
| K13A83P | 16.4 | 0.15 | K145N | 41.039 | 299.401 | 234.778 | 6.967 | 0.07051 | 3.05621 | 7 | X |
| K13A92M | 15.9 | 0.15 | K145N | 130.589 | 303.267 | 127.033 | 11.040 | 0.09271 | 3.16370 | 7 | X |
| K13AA1V | 16.2 | 0.15 | K145N | 183.206 | 315.393 | 74.780 | 7.771 | 0.06953 | 2.86198 | 8 | X |
| K13AA3J | 15.8 | 0.15 | K145N | 232.288 | 246.496 | 95.580 | 10.741 | 0.09498 | 3.12944 | 5 | X |
| K13AA9C | 16.6 | 0.15 | K145N | 294.330 | 151.790 | 133.250 | 7.280 | 0.13152 | 3.02220 | 6 | X |
| K13AB8M | 16.0 | 0.15 | K145N | 227.510 | 256.034 | 85.862 | 9.447 | 0.08809 | 3.14687 | 6 | X |
| K13AC4D | 15.6 | 0.15 | K145N | 281.354 | 187.346 | 110.200 | 11.607 | 0.07973 | 3.11664 | 10 | X |
| K13AD3L | 13.6 | 0.15 | K145N | 107.041 | 258.184 | 166.192 | 9.949 | 0.08584 | 5.24778 | 6 | X |
| K13AE9T | 16.9 | 0.15 | K145N | 353.220 | 50.970 | 185.767 | 9.913 | 0.23830 | 3.12996 | 3 | X |
| K13AG0K | 17.1 | 0.15 | K145N | 324.054 | 66.980 | 204.120 | 7.459 | 0.19016 | 2.79300 | 6 | X |
| K13B05S | 16.1 | 0.15 | K145N | 2.671 | 61.408 | 144.621 | 11.790 | 0.02681 | 3.11937 | 6 | X |
| K13B09U | 16.3 | 0.15 | K145N | 182.431 | 288.331 | 92.875 | 9.058 | 0.06596 | 3.00913 | 5 | X |
| K13B30U | 16.3 | 0.15 | K145N | 293.898 | 201.130 | 83.239 | 6.789 | 0.04068 | 2.95104 | 5 | X |
| K13B50U | 16.0 | 0.15 | K145N | 149.195 | 316.511 | 93.447 | 10.336 | 0.08652 | 3.16021 | 8 | X |
| K13B80J | 16.4 | 0.15 | K145N | 126.774 | 289.113 | 141.697 | 10.337 | 0.08819 | 3.16901 | 4 | X |
| K13C32W | 21.9 | 0.15 | K145N | 285.716 | 228.841 | 132.125 | 26.055 | 0.37848 | 0.90454 | 2 | W |
| K13C40V | 16.5 | 0.15 | K145N | 214.019 | 207.827 | 151.138 | 10.950 | 0.09573 | 2.99182 | 5 | X |
| K13CB5F | 13.5 | 0.15 | K145N | 126.826 | 279.979 | 142.250 | 12.929 | 0.09972 | 5.27798 | 5 | X |
| K13CD2V | 16.5 | 0.15 | K145N | 240.786 | 155.015 | 191.064 | 1.460 | 0.10652 | 2.75386 | 6 | X |
| K13CD5N | 14.9 | 0.15 | K145N | 24.860 | 169.106 | 25.192 | 5.332 | 0.09341 | 3.92876 | 8 | X |
| K13CE9M | 13.7 | 0.15 | K145N | 129.068 | 283.506 | 142.295 | 10.682 | 0.05773 | 5.19740 | 6 | X |
| K13CI0E | 15.3 | 0.15 | K145N | 111.803 | 49.132 | 48.354 | 28.225 | 0.20235 | 3.12633 | 7 | X |
| K13E00Y | 15.7 | 0.15 | K145N | 119.387 | 54.979 | 37.045 | 17.609 | 0.08235 | 3.04574 | 6 | X |
| K13E17D | 15.6 | 0.15 | K145N | 149.728 | 262.774 | 150.627 | 11.538 | 0.11105 | 3.37719 | 5 | X |
| K13N00X | 22.1 | 0.15 | K145N | 177.284 | 312.663 | 112.731 | 6.322 | 0.16985 | 1.03233 | 2 | W |
| K13T05V | 19.2 | 0.15 | K145N | 132.208 | 69.776 | 351.250 | 18.777 | 0.25256 | 1.33347 | 2 | X |
| K13X22F | 19.2 | 0.15 | K145N | 14.104 | 259.162 | 272.470 | 6.139 | 0.54293 | 2.55794 | 2 | X |
| K13Y66G | 16.8 | 0.15 | K145N | 94.997 | 134.427 | 290.385 | 28.772 | 0.16307 | 2.55721 | 2 | X |
| K14B33D | 17.2 | 0.15 | K145N | 52.819 | 237.505 | 141.492 | 65.971 | 0.72685 | 2.74785 | 2 | X |
| K14B35W | 17.9 | 0.15 | K145N | 61.193 | 332.826 | 127.459 | 4.409 | 0.16204 | 2.32030 | 5 | X |
| K14B46Z | 17.3 | 0.15 | K145N | 29.617 | 292.659 | 192.135 | 1.242 | 0.32691 | 3.01609 | 3 | X |
| K14B47B | 17.9 | 0.15 | K145N | 53.996 | 327.848 | 148.308 | 6.155 | 0.11842 | 2.21431 | 7 | X |
| K14B47E | 17.9 | 0.15 | K145N | 357.685 | 40.383 | 144.879 | 2.413 | 0.07669 | 2.21932 | 7 | X |
| K14B63W | 17.4 | 0.15 | K145N | 46.195 | 285.568 | 195.632 | 1.912 | 0.14114 | 2.46896 | 6 | X |
| K14B64M | 16.6 | 0.15 | K145N | 41.085 | 138.420 | 347.940 | 12.149 | 0.07110 | 2.67319 | 4 | X |
| K14C03Y | 18.0 | 0.15 | K145N | 350.800 | 141.637 | 52.104 | 3.094 | 0.13556 | 2.35689 | 5 | X |
| K14C15Q | 16.2 | 0.15 | K145N | 43.885 | 311.149 | 159.336 | 19.174 | 0.18939 | 3.07741 | 4 | X |
| K14C16F | 16.0 | 0.15 | K145N | 32.125 | 155.897 | 330.755 | 6.717 | 0.20652 | 3.15634 | 5 | X |
| K14C17B | 16.0 | 0.15 | K145N | 1.526 | 8.130 | 162.670 | 11.434 | 0.14811 | 3.18450 | 5 | X |
| K14C20H | 16.1 | 0.15 | K145N | 317.021 | 71.188 | 162.936 | 18.719 | 0.17246 | 2.87795 | 2 | X |
| K14C22M | 17.6 | 0.15 | K145N | 13.628 | 349.390 | 177.125 | 6.711 | 0.14771 | 2.38922 | 5 | X |
| K14D07X | 16.6 | 0.15 | K145N | 6.039 | 187.113 | 342.203 | 8.571 | 0.11922 | 2.79369 | 5 | X |
| K14D18M | 16.9 | 0.15 | K145N | 60.229 | 119.616 | 336.677 | 12.545 | 0.16849 | 2.79205 | 4 | X |
| K14D18V | 15.8 | 0.15 | K145N | 14.982 | 352.305 | 161.871 | 16.284 | 0.01898 | 3.08586 | 3 | X |
| K14D19J | 17.9 | 0.15 | K145N | 41.854 | 296.230 | 188.903 | 1.617 | 0.16819 | 2.46705 | 4 | X |
| K14D19Y | 18.1 | 0.15 | K145N | 34.160 | 15.455 | 139.996 | 1.724 | 0.12999 | 2.38224 | 9 | X |
| K14D20E | 17.2 | 0.15 | K145N | 76.782 | 318.217 | 156.248 | 4.611 | 0.03166 | 2.55748 | 5 | X |
| K14D20F | 18.1 | 0.15 | K145N | 351.208 | 165.417 | 47.681 | 1.699 | 0.12632 | 2.32246 | 4 | X |
| K14D23V | 16.5 | 0.15 | K145N | 202.017 | 182.110 | 146.307 | 14.609 | 0.07323 | 2.70724 | 5 | X |
| K14D27G | 18.5 | 0.15 | K145N | 15.727 | 337.566 | 188.892 | 1.374 | 0.15701 | 2.21143 | 3 | X |
| K14D42M | 16.9 | 0.15 | K145N | 293.657 | 192.281 | 61.873 | 4.538 | 0.06116 | 2.62938 | 5 | X |
| K14D54M | 16.8 | 0.15 | K145N | 59.596 | 109.309 | 14.597 | 3.213 | 0.07996 | 2.96339 | 5 | X |
| K14D55L | 16.3 | 0.15 | K145N | 308.446 | 95.884 | 153.919 | 4.175 | 0.06894 | 3.05420 | 7 | X |
| K14D55U | 16.9 | 0.15 | K145N | 327.346 | 228.833 | 5.220 | 8.865 | 0.10006 | 2.79227 | 4 | X |
| K14D64J | 17.6 | 0.15 | K145N | 138.909 | 26.331 | 27.467 | 6.945 | 0.05176 | 2.35634 | 3 | X |
| K14D87W | 15.8 | 0.15 | K145N | 93.129 | 267.516 | 150.828 | 18.536 | 0.12016 | 3.17578 | 8 | X |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|---|---|
| K14DE0W | 15.9 | 0.15 | K145N | 348.303 | 316.530 | 247.373 | 3.509 | 0.11083 | 3.01918 | 9 | X |
| K14E30X | 16.7 | 0.15 | K145N | 54.648 | 123.105 | 11.151 | 15.299 | 0.05669 | 2.64718 | 2 | X |

New perturbed one-opposition orbits:

| Object | H | G | Epoch | M | Peri. | Node | Incl. | e | a | Arc | C |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|---|
| K13P21D | 19.5 | 0.15 | K145N | 60.482 | 289.430 | 135.805 | 34.956 | 0.55986 | 1.95230 | 214 | X |
| K13T05R | 19.1 | 0.15 | K145N | 341.877 | 277.779 | 344.903 | 46.697 | 0.12741 | 0.93141 | 169 | X |
| K13W44T | 19.4 | 0.15 | K145N | 25.769 | 325.774 | 182.764 | 12.205 | 0.56836 | 2.25959 | 131 | X |
| K13X21Y | 18.9 | 0.15 | K145N | 19.920 | 121.177 | 11.233 | 25.014 | 0.52654 | 2.68276 | 104 | X |
| K13X24M | 19.0 | 0.15 | K145N | 5.900 | 118.179 | 99.490 | 38.348 | 0.42476 | 1.66725 | 87 | X |
| K14A15O | 17.1 | 0.15 | K145N | 41.343 | 115.578 | 350.173 | 29.624 | 0.36600 | 2.61296 | 96 | X |
| K14A28Y | 21.8 | 0.15 | K145N | 30.748 | 22.606 | 169.629 | 5.708 | 0.28254 | 1.42545 | 87 | X |
| K14A52Z | 18.4 | 0.15 | K145N | 25.554 | 17.615 | 121.959 | 18.721 | 0.56109 | 3.34283 | 88 | X |
| K14C13S | 24.0 | 0.15 | K145N | 109.565 | 14.397 | 58.549 | 0.613 | 0.32693 | 1.25538 | 28 | X |
| K14D00A | 22.7 | 0.15 | K145N | 82.670 | 110.142 | 313.707 | 2.466 | 0.48480 | 1.50587 | 21 | X |
| K14D07N | 20.7 | 0.15 | K145N | 7.687 | 110.732 | 145.053 | 23.877 | 0.65248 | 1.70460 | 22 | X |
| K14D07O | 23.7 | 0.15 | K145N | 24.685 | 35.149 | 154.398 | 13.563 | 0.40080 | 1.68521 | 15 | X |
| K14D07P | 20.3 | 0.15 | K145N | 57.974 | 283.213 | 155.322 | 23.152 | 0.48825 | 2.13655 | 46 | X |
| K14D10C | 20.1 | 0.15 | K145N | 7.661 | 42.135 | 153.167 | 13.476 | 0.65797 | 2.84144 | 31 | X |
| K14E12Q | 21.1 | 0.15 | K145N | 1.331 | 92.318 | 178.028 | 11.016 | 0.74393 | 2.63736 | 30 | X |
| K14E45L | 19.9 | 0.15 | K145N | 10.161 | 22.786 | 174.924 | 30.867 | 0.61850 | 2.85212 | 27 | X |
| K14E48Z | 18.8 | 0.15 | K145N | 354.010 | 82.064 | 178.821 | 25.514 | 0.56406 | 2.25589 | 26 | X |
| K14E49D | 18.6 | 0.15 | K145N | 76.833 | 2.689 | 57.919 | 8.322 | 0.47036 | 2.30491 | 26 | X |
| K14E49R | 18.3 | 0.15 | K145N | 352.783 | 160.084 | 100.296 | 13.672 | 0.64203 | 2.82280 | 30 | X |
| K14F00F | 24.2 | 0.15 | K145N | 14.437 | 22.682 | 179.368 | 9.877 | 0.50323 | 2.04992 | 17 | X |
| K14F33C | 23.3 | 0.15 | K145N | 0.947 | 58.674 | 180.416 | 33.206 | 0.31392 | 1.58937 | 11 | X |
| K14F33H | 19.0 | 0.15 | K145N | 337.007 | 176.663 | 145.959 | 8.180 | 0.67950 | 1.91608 | 14 | X |
| K14F33K | 20.6 | 0.15 | K145N | 280.228 | 328.151 | 15.796 | 26.964 | 0.50358 | 0.97545 | 12 | X |
| K14F33L | 20.1 | 0.15 | K145N | 343.284 | 169.574 | 125.573 | 11.923 | 0.56754 | 1.86446 | 13 | X |
| K14F33N | 21.0 | 0.15 | K145N | 0.766 | 116.654 | 124.543 | 6.065 | 0.49610 | 2.20319 | 14 | X |
| K14F37Q | 21.8 | 0.15 | K145N | 49.404 | 104.953 | 18.106 | 27.267 | 0.46292 | 1.72115 | 12 | X |
| K14F38Q | 25.1 | 0.15 | K145N | 87.794 | 255.608 | 187.200 | 21.131 | 0.50589 | 1.20872 | 9 | X |
| K14F43Y | 21.5 | 0.15 | K145N | 356.572 | 51.159 | 194.746 | 16.516 | 0.46545 | 2.15856 | 10 | X |
| K14F44B | 25.6 | 0.15 | K145N | 36.393 | 344.554 | 188.789 | 10.836 | 0.32438 | 1.48931 | 5 | X |
| K14F47N | 20.5 | 0.15 | K145N | 21.142 | 359.347 | 186.674 | 30.998 | 0.28161 | 1.75072 | 8 | X |
| K14F47P | 22.3 | 0.15 | K145N | 320.963 | 271.614 | 28.889 | 5.051 | 0.26074 | 1.16731 | 7 | X |
| K14F52R | 23.7 | 0.15 | K145N | 5.852 | 196.733 | 29.092 | 4.848 | 0.49172 | 2.05536 | 7 | X |
| K14F52S | 24.5 | 0.15 | K145N | 0.183 | 133.677 | 128.175 | 0.808 | 0.58582 | 2.00922 | 6 | X |
| K14F54H | 22.2 | 0.15 | K145N | 23.137 | 48.620 | 13.997 | 15.306 | 0.86994 | 2.71291 | 7 | X |
| K14G01G | 26.3 | 0.15 | K145N | 43.482 | 335.897 | 183.001 | 5.013 | 0.34479 | 1.48488 | 6 | X |
| K14G01J | 24.2 | 0.15 | K145N | 151.761 | 40.425 | 24.072 | 4.967 | 0.27323 | 0.94216 | 6 | X |
| K14G01L | 24.8 | 0.15 | K145N | 72.830 | 60.049 | 12.468 | 4.822 | 0.64715 | 1.33891 | 5 | X |
| K14G01N | 24.6 | 0.15 | K145N | 0.723 | 80.351 | 193.073 | 2.965 | 0.75011 | 2.66144 | 4 | X |
| K14G17G | 20.3 | 0.15 | K145N | 112.813 | 240.230 | 195.376 | 39.800 | 0.35487 | 1.37940 | 3 | X |
| K14G17O | 23.0 | 0.15 | K145N | 22.821 | 119.340 | 18.554 | 6.817 | 0.64577 | 2.44708 | 3 | X |
| K14G17P | 25.2 | 0.15 | K145N | 6.253 | 189.558 | 38.289 | 3.587 | 0.55665 | 2.21204 | 3 | X |
| K14G17Q | 27.2 | 0.15 | K145N | 186.129 | 331.799 | 78.082 | 0.091 | 0.24694 | 0.85416 | 2 | X |

New one-opposition orbits:

| Object | H | G | Epoch | M | Peri. | Node | Incl. | e | a | Arc | C |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|---|
| K13X24K | 16.5 | 0.15 | K141N | 359.236 | 79.051 | 32.431 | 26.417 | 0.27337 | 2.60559 | 112 | W |
| K13Y64S | 18.8 | 0.15 | K142C | 332.692 | 82.704 | 97.892 | 23.608 | 0.34620 | 2.22848 | 96 | W |
| K14D15N | 17.8 | 0.15 | K143A | 355.029 | 124.786 | 43.595 | 5.307 | 0.07104 | 2.26179 | 44 | X |
| K14D18N | 15.8 | 0.15 | K142C | 84.678 | 261.654 | 149.543 | 15.938 | 0.12421 | 3.13582 | 85 | X |
| K14D24L | 16.9 | 0.15 | K143A | 358.042 | 174.314 | 341.701 | 9.866 | 0.16174 | 3.20197 | 56 | X |
| K14D31U | 16.4 | 0.15 | K143A | 326.904 | 118.415 | 101.983 | 6.882 | 0.08507 | 2.46970 | 45 | X |
| K14D35D | 16.1 | 0.15 | K143A | 68.803 | 286.754 | 151.012 | 13.749 | 0.14256 | 2.71850 | 44 | X |
| K14D46S | 17.6 | 0.15 | K143A | 42.561 | 284.917 | 180.751 | 9.432 | 0.25521 | 2.65574 | 40 | X |
| K14D47D | 16.7 | 0.15 | K143A | 311.434 | 76.589 | 179.223 | 20.110 | 0.28384 | 3.14777 | 40 | X |
| K14D48D | 17.3 | 0.15 | K143A | 225.229 | 141.730 | 176.703 | 6.294 | 0.08966 | 2.43135 | 40 | X |
| K14D51R | 13.8 | 0.15 | K143A | 97.650 | 265.575 | 163.242 | 9.602 | 0.08614 | 5.23982 | 40 | X |
| K14D53U | 16.2 | 0.15 | K143A | 106.943 | 249.358 | 170.203 | 9.661 | 0.08404 | 3.12238 | 40 | X |
| K14D55O | 17.9 | 0.15 | K143A | 295.043 | 246.925 | 9.780 | 4.684 | 0.16450 | 2.25479 | 40 | X |
| K14D56C | 16.4 | 0.15 | K143A | 39.688 | 56.715 | 67.903 | 2.455 | 0.13789 | 3.06613 | 40 | X |
| K14D57J | 18.0 | 0.15 | K143A | 21.959 | 128.815 | 16.601 | 6.176 | 0.09809 | 2.24172 | 56 | X |
| K14D62U | 18.0 | 0.15 | K143A | 10.824 | 96.732 | 62.986 | 2.303 | 0.13486 | 2.42544 | 40 | X |
| K14D66D | 16.7 | 0.15 | K143A | 331.957 | 201.808 | 12.259 | 16.250 | 0.16607 | 2.76532 | 40 | X |
| K14D68W | 17.7 | 0.15 | K143A | 327.970 | 86.692 | 155.206 | 12.211 | 0.35020 | 3.06456 | 39 | W |
| K14D72U | 16.6 | 0.15 | K143A | 321.133 | 145.506 | 84.510 | 6.081 | 0.17079 | 2.43605 | 38 | X |
| K14D76O | 18.2 | 0.15 | K143A | 322.862 | 201.976 | 16.112 | 5.205 | 0.10549 | 2.29564 | 40 | X |
| K14D77Q | 18.2 | 0.15 | K143A | 19.033 | 137.099 | 6.130 | 13.842 | 0.22083 | 2.62627 | 56 | X |
| K14D79L | 16.2 | 0.15 | K143A | 341.040 | 186.798 | 18.546 | 18.069 | 0.13330 | 3.11086 | 38 | X |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|----|---|
| K14D79W | 16.9 | 0.15 | K1434 | 31.274 | 115.112 | 26.471 | 8.864 | 0.08409 | 3.01445 | 40 | X |
| K14D85Q | 17.8 | 0.15 | K1434 | 343.367 | 16.777 | 177.279 | 7.720 | 0.12512 | 2.56240 | 40 | X |
| K14D89R | 17.4 | 0.15 | K1434 | 53.365 | 103.772 | 14.616 | 13.261 | 0.12700 | 2.61186 | 40 | X |
| K14D90L | 17.7 | 0.15 | K1434 | 49.423 | 345.977 | 146.496 | 6.879 | 0.04808 | 2.33175 | 40 | X |
| K14DB0R | 18.3 | 0.15 | K1434 | 173.282 | 184.176 | 166.376 | 21.461 | 0.06941 | 1.85216 | 37 | X |
| K14DB1Z | 15.5 | 0.15 | K1434 | 293.644 | 147.389 | 117.260 | 5.979 | 0.09229 | 3.11083 | 39 | X |
| K14E11A | 17.0 | 0.15 | K1434 | 316.695 | 223.629 | 9.050 | 16.639 | 0.16408 | 3.10508 | 40 | X |
| K14E21T | 16.7 | 0.15 | K1434 | 285.427 | 308.874 | 312.928 | 6.532 | 0.17574 | 2.74635 | 30 | X |
| K14E27W | 16.4 | 0.15 | K1434 | 12.150 | 338.121 | 160.806 | 13.748 | 0.12761 | 3.19565 | 57 | X |
| K14E39T | 17.6 | 0.15 | K1434 | 329.660 | 138.000 | 75.577 | 8.236 | 0.08139 | 2.22618 | 29 | X |
| K14E40R | 17.3 | 0.15 | K1434 | 313.246 | 144.107 | 97.452 | 6.889 | 0.18856 | 2.39126 | 28 | X |
| K14E45O | 17.5 | 0.15 | K1434 | 338.125 | 217.930 | 17.491 | 7.037 | 0.33294 | 2.38236 | 28 | W |
| K14E49Y | 15.9 | 0.15 | K1434 | 9.954 | 161.317 | 25.614 | 8.390 | 0.09958 | 2.57141 | 30 | X |
| K14E50W | 17.3 | 0.15 | K1434 | 351.137 | 151.981 | 36.745 | 13.192 | 0.21700 | 2.64445 | 28 | X |
| K14E51L | 17.6 | 0.15 | K1430 | 318.495 | 97.293 | 137.853 | 6.690 | 0.12471 | 2.30460 | 25 | X |
| K14E51N | 15.7 | 0.15 | K1430 | 321.718 | 101.527 | 141.722 | 11.660 | 0.21635 | 3.13117 | 25 | X |
| K14F06B | 16.3 | 0.15 | K1430 | 309.639 | 61.327 | 180.816 | 14.227 | 0.13384 | 2.78214 | 17 | X |
| K14F06C | 18.4 | 0.15 | K1430 | 340.736 | 36.768 | 168.237 | 1.452 | 0.14228 | 2.35959 | 17 | X |
| K14F07N | 18.3 | 0.15 | K1434 | 90.234 | 269.295 | 176.707 | 22.666 | 0.10741 | 1.96326 | 39 | X |
| K14F08Y | 16.5 | 0.15 | K1430 | 80.492 | 266.665 | 174.947 | 14.070 | 0.15748 | 3.19561 | 18 | X |
| K14F11E | 15.9 | 0.15 | K1430 | 286.294 | 264.460 | 343.326 | 13.433 | 0.13586 | 2.84667 | 18 | X |
| K14F17N | 17.2 | 0.15 | K1434 | 12.446 | 212.331 | 301.756 | 1.789 | 0.15709 | 2.32541 | 38 | X |
| K14F21A | 16.4 | 0.15 | K1430 | 345.913 | 51.967 | 157.401 | 9.306 | 0.06089 | 2.70705 | 15 | X |
| K14F34F | 17.8 | 0.15 | K1430 | 0.195 | 108.152 | 72.698 | 2.005 | 0.16250 | 2.36108 | 18 | X |
| K14F35X | 17.6 | 0.15 | K1430 | 293.403 | 220.265 | 65.929 | 10.859 | 0.20536 | 2.37615 | 14 | X |
| K14F36K | 17.2 | 0.15 | K1430 | 224.903 | 300.730 | 45.692 | 10.117 | 0.09657 | 2.21942 | 12 | X |
| K14F36S | 16.7 | 0.15 | K1430 | 278.346 | 271.021 | 29.688 | 3.810 | 0.12316 | 2.67236 | 12 | X |
| K14F37G | 16.6 | 0.15 | K1430 | 34.665 | 323.828 | 201.655 | 5.227 | 0.06743 | 2.59324 | 11 | X |
| K14F39L | 15.8 | 0.15 | K1430 | 90.228 | 33.658 | 70.203 | 12.795 | 0.04031 | 2.96950 | 14 | X |
| K14F46P | 16.3 | 0.15 | K1430 | 334.773 | 203.982 | 35.372 | 13.579 | 0.10668 | 2.55666 | 9 | X |
| K14F46Q | 17.4 | 0.15 | K1430 | 324.014 | 221.008 | 22.895 | 24.186 | 0.26696 | 2.36578 | 9 | X |
| K14F47W | 15.7 | 0.15 | K1430 | 353.698 | 89.542 | 105.590 | 10.908 | 0.15776 | 3.17824 | 13 | X |
| K14F48E | 18.1 | 0.15 | K1430 | 340.163 | 41.677 | 164.867 | 5.259 | 0.13986 | 2.39186 | 25 | X |
| K14F48N | 16.5 | 0.15 | K1430 | 5.413 | 104.781 | 70.163 | 15.571 | 0.17786 | 3.18346 | 14 | X |
| K14F48Q | 17.5 | 0.15 | K1430 | 32.234 | 213.185 | 289.382 | 5.161 | 0.18936 | 2.39254 | 13 | X |
| K14F48S | 17.4 | 0.15 | K1430 | 342.049 | 295.254 | 278.790 | 4.112 | 0.16548 | 2.36450 | 13 | X |
| K14F49C | 17.1 | 0.15 | K1430 | 6.316 | 194.412 | 347.317 | 10.664 | 0.14838 | 2.56952 | 13 | X |
| K14F50X | 16.8 | 0.15 | K1430 | 349.973 | 153.890 | 47.268 | 14.462 | 0.18827 | 2.64518 | 11 | X |
| K14F52Q | 17.8 | 0.15 | K1430 | 26.571 | 137.436 | 28.422 | 6.580 | 0.21343 | 2.61376 | 7 | X |
| K14F53Q | 16.1 | 0.15 | K1430 | 53.977 | 75.651 | 59.327 | 7.079 | 0.12973 | 3.01771 | 9 | X |
| K14F54Q | 16.5 | 0.15 | K1430 | 353.753 | 90.764 | 124.955 | 5.419 | 0.15795 | 2.59222 | 7 | W |
| K14F55Q | 15.5 | 0.15 | K1430 | 19.374 | 117.831 | 54.193 | 18.445 | 0.14366 | 3.24305 | 8 | X |
| K14F56E | 17.9 | 0.15 | K1430 | 15.045 | 29.831 | 143.280 | 6.423 | 0.09891 | 2.21554 | 7 | X |
| K14F56F | 16.7 | 0.15 | K1430 | 354.125 | 266.067 | 336.890 | 20.399 | 0.30489 | 2.25432 | 6 | X |
| K14G06V | 15.9 | 0.15 | K1430 | 11.643 | 158.629 | 14.547 | 29.284 | 0.15894 | 3.13738 | 6 | X |
| K14G11H | 17.1 | 0.15 | K1430 | 45.685 | 330.197 | 170.149 | 7.208 | 0.05459 | 2.37005 | 3 | X |
| K14G11V | 17.6 | 0.15 | K1430 | 355.191 | 11.289 | 183.588 | 26.759 | 0.20199 | 2.42701 | 3 | X |
| K14G13J | 17.6 | 0.15 | K1430 | 335.438 | 200.001 | 25.064 | 2.339 | 0.17675 | 2.42363 | 5 | X |
| K14G13M | 16.5 | 0.15 | K1430 | 309.509 | 289.358 | 316.905 | 0.169 | 0.05109 | 2.70480 | 5 | X |
| K14G13N | 16.4 | 0.15 | K1430 | 87.028 | 249.526 | 198.381 | 6.182 | 0.14583 | 2.76540 | 5 | X |
| K14G14E | 16.9 | 0.15 | K1430 | 72.316 | 83.495 | 38.122 | 12.256 | 0.07706 | 3.11524 | 4 | W |
| K14G16N | 16.8 | 0.15 | K1430 | 43.349 | 352.529 | 146.224 | 5.073 | 0.19418 | 2.57519 | 5 | X |
| K14G16P | 16.2 | 0.15 | K1430 | 310.326 | 217.305 | 52.910 | 8.927 | 0.19480 | 2.80349 | 5 | X |
| K14G17C | 16.3 | 0.15 | K1430 | 322.413 | 260.250 | 8.709 | 10.976 | 0.23194 | 3.09300 | 3 | X |
| K14G17J | 18.1 | 0.15 | K1430 | 310.605 | 180.154 | 54.095 | 21.297 | 0.03677 | 1.89446 | 5 | X |
| K14G17L | 19.3 | 0.15 | K1430 | 174.374 | 180.789 | 196.406 | 24.071 | 0.10777 | 1.86102 | 2 | X |
| K14G17M | 18.5 | 0.15 | K1430 | 189.947 | 161.077 | 207.406 | 22.347 | 0.11317 | 1.94588 | 2 | X |
| K14G17N | 15.7 | 0.15 | K1430 | 32.284 | 123.242 | 62.192 | 31.903 | 0.07306 | 2.50577 | 2 | W |
| K14G18F | 17.6 | 0.15 | K1430 | 316.089 | 257.316 | 6.722 | 1.253 | 0.16650 | 2.34121 | 6 | X |
| K14G18H | 16.3 | 0.15 | K1430 | 315.022 | 234.259 | 30.346 | 19.200 | 0.08923 | 3.04019 | 6 | X |
| K14G27D | 17.0 | 0.15 | K1430 | 42.672 | 13.768 | 111.874 | 15.333 | 0.20569 | 2.69209 | 2 | W |
| K14G31S | 17.4 | 0.15 | K1430 | 300.365 | 215.387 | 71.804 | 4.721 | 0.24267 | 2.37816 | 3 | X |
| K14G32B | 16.9 | 0.15 | K1430 | 48.828 | 69.223 | 68.805 | 7.399 | 0.17357 | 2.73119 | 3 | X |

New observations:

| | | | | | | | | | | | |
|---------|-------|----|----------|----|----|-------|-----|----|------|------|------------|
| J98M03E | C2014 | 04 | 07.29750 | 13 | 52 | 32.22 | +02 | 39 | 14.7 | 20.2 | VqEG036G96 |
| J98M03E | C2014 | 04 | 07.30632 | 13 | 52 | 31.71 | +02 | 39 | 21.7 | 20.1 | VqEG036G96 |
| J98M03E | C2014 | 04 | 07.31515 | 13 | 52 | 31.22 | +02 | 39 | 28.5 | 19.8 | VqEG036G96 |
| J98M03E | C2014 | 04 | 07.32396 | 13 | 52 | 30.72 | +02 | 39 | 35.6 | 20.1 | VqEG036G96 |
| K03F00G | C2014 | 04 | 07.16513 | 09 | 49 | 41.39 | +18 | 06 | 33.6 | 20.3 | VqEG036G96 |
| K03F00G | C2014 | 04 | 07.17293 | 09 | 49 | 38.92 | +18 | 06 | 34.8 | 20.3 | VqEG036G96 |
| K03F00G | C2014 | 04 | 07.18075 | 09 | 49 | 36.38 | +18 | 06 | 35.8 | 20.3 | VqEG036G96 |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|-----------|-----|-----------|-------------|------|------------|
| K03F00G | C2014 | 04 | 07.18855 | 09 | 49 | 33.88 | +18 | 06 | 36.0 | 20.1 | VqEG036G96 |
| K03Q79R | S2014 | 04 | 02.29870 | 07 | 02 | 57.99 | +14 | 27 | 47.1 | 19 | RLEG036C51 |
| K03Q79R | s2014 | 04 | 02.29870 | 1 | - | 1261.7578 | + | 6563.2011 | + 1655.2590 | | EG036C51 |
| K03Q79R | S2014 | 04 | 02.43036 | 07 | 03 | 32.91 | +14 | 23 | 23.2 | | LEG036C51 |
| K03Q79R | s2014 | 04 | 02.43036 | 1 | - | 1276.9588 | + | 6560.4759 | + 1654.2750 | | EG036C51 |
| K03Q79R | S2014 | 04 | 02.82537 | 07 | 05 | 17.01 | +14 | 10 | 23.5 | | LEG036C51 |
| K03Q79R | s2014 | 04 | 02.82537 | 1 | - | 1321.8536 | + | 6551.4203 | + 1655.3594 | | EG036C51 |
| K03Q79R | S2014 | 04 | 02.95703 | 07 | 05 | 51.80 | +14 | 06 | 05.0 | | LEG036C51 |
| K03Q79R | s2014 | 04 | 02.95703 | 1 | - | 1336.8387 | + | 6548.3339 | + 1655.3894 | | EG036C51 |
| K03Q79R | S2014 | 04 | 03.08870 | 07 | 06 | 26.32 | +14 | 01 | 46.0 | | LEG036C51 |
| K03Q79R | s2014 | 04 | 03.08870 | 1 | - | 1351.8665 | + | 6545.2704 | + 1655.1560 | | EG036C51 |
| K03Q79R | S2014 | 04 | 03.35204 | 07 | 07 | 35.12 | +13 | 53 | 09.6 | | LEG036C51 |
| K03Q79R | s2014 | 04 | 03.35204 | 1 | - | 1381.8204 | + | 6538.9485 | + 1655.1131 | | EG036C51 |
| K05QF1Z | C2014 | 04 | 07.19349 | 11 | 55 | 05.02 | +03 | 16 | 04.1 | 20.9 | VqEG036G96 |
| K05QF1Z | C2014 | 04 | 07.20263 | 11 | 55 | 04.42 | +03 | 16 | 02.4 | 20.7 | VqEG036G96 |
| K05QF1Z | C2014 | 04 | 07.21179 | 11 | 55 | 03.84 | +03 | 16 | 00.9 | 20.6 | VqEG036G96 |
| K05QF1Z | C2014 | 04 | 07.22094 | 11 | 55 | 03.22 | +03 | 15 | 59.5 | 20.6 | VqEG036G96 |
| K09J01L | KC2014 | 04 | 07.39780 | 11 | 13 | 04.85 | +37 | 17 | 45.2 | 20.5 | RoEG036291 |
| K09J01L | KC2014 | 04 | 07.40213 | 11 | 13 | 04.42 | +37 | 17 | 40.4 | 20.4 | RoEG036291 |
| K09J01L | KC2014 | 04 | 07.40647 | 11 | 13 | 04.03 | +37 | 17 | 36.0 | | oEG036291 |
| K10E20H | C2014 | 04 | 07.47201 | 15 | 25 | 36.51 | +19 | 51 | 08.6 | 21.4 | VqEG036G96 |
| K10E20H | C2014 | 04 | 07.48148 | 15 | 25 | 36.21 | +19 | 51 | 15.9 | 21.2 | VqEG036G96 |
| K10E20H | C2014 | 04 | 07.48622 | 15 | 25 | 36.02 | +19 | 51 | 20.1 | 20.8 | VqEG036G96 |
| K10N03G | KC2014 | 04 | 01.88013 | 13 | 10 | 45.30 | +52 | 35 | 29.6 | | tEG036204 |
| K10N03G | KC2014 | 04 | 01.88533 | 13 | 10 | 44.70 | +52 | 35 | 30.7 | | tEG036204 |
| K10N03G | KC2014 | 04 | 01.89049 | 13 | 10 | 44.07 | +52 | 35 | 32.5 | 18.6 | RtEG036204 |
| K11C50H | C2014 | 04 | 07.20540 | 10 | 30 | 08.01 | -11 | 41 | 12.3 | 18.5 | VqEG036703 |
| K11C50H | C2014 | 04 | 07.21191 | 10 | 30 | 10.21 | -11 | 41 | 31.0 | 18.2 | VqEG036703 |
| K11C50H | C2014 | 04 | 07.21841 | 10 | 30 | 12.51 | -11 | 41 | 49.9 | 18.3 | VqEG036703 |
| K11C50H | C2014 | 04 | 07.22491 | 10 | 30 | 14.81 | -11 | 42 | 09.3 | 18.3 | VqEG036703 |
| K12O05T | KC2014 | 04 | 06.36984915 | 40 | 55.35 | -01 | 34 | 39.3 | | 21.8 | VuEG036H21 |
| K12O05T | KC2014 | 04 | 06.38082015 | 40 | 55.99 | -01 | 34 | 31.0 | | 22.0 | VuEG036H21 |
| K12O05T | KC2014 | 04 | 06.39115415 | 40 | 56.64 | -01 | 34 | 23.0 | | 22.1 | VuEG036H21 |
| K13C32W | JC2014 | 04 | 04.46459 | 17 | 59 | 03.79 | +45 | 03 | 18.0 | 22.3 | RoEG036695 |
| K13C32W | JC2014 | 04 | 04.47570 | 17 | 59 | 05.51 | +45 | 03 | 44.3 | 22.7 | RoEG036695 |
| K13C32W | JC2014 | 04 | 04.49863 | 17 | 59 | 09.15 | +45 | 04 | 40.8 | 22.4 | RoEG036695 |
| K13N00X | KC2014 | 04 | 04.36403 | 17 | 36 | 57.96 | -02 | 04 | 16.1 | 21.4 | RoEG036291 |
| K13N00X | KC2014 | 04 | 04.37126 | 17 | 36 | 58.37 | -02 | 04 | 11.0 | 21.7 | RoEG036291 |
| K13P21D | KC2014 | 02 | 25.11020 | 10 | 24 | 25.38 | +49 | 42 | 53.6 | | tEG036204 |
| K13P21D | KC2014 | 02 | 25.12044 | 10 | 24 | 24.58 | +49 | 43 | 10.8 | 18.7 | RtEG036204 |
| K13P21D | KC2014 | 02 | 25.13056 | 10 | 24 | 23.82 | +49 | 43 | 28.1 | | tEG036204 |
| K13T05R | HC2014 | 02 | 24.78053 | 23 | 39 | 56.80 | +68 | 16 | 01.6 | | qEG036204 |
| K13T05R | FC2014 | 02 | 24.80086 | 23 | 40 | 17.58 | +68 | 15 | 54.7 | 19.9 | RqEG036204 |
| K13T05V | C2014 | 04 | 07.20640 | 11 | 02 | 02.51 | -11 | 35 | 07.2 | 19.4 | VqEG036703 |
| K13T05V | C2014 | 04 | 07.21291 | 11 | 02 | 01.72 | -11 | 35 | 09.5 | 19.6 | VqEG036703 |
| K13T05V | C2014 | 04 | 07.21941 | 11 | 02 | 01.09 | -11 | 35 | 12.0 | 19.3 | VqEG036703 |
| K13T05V | C2014 | 04 | 07.22591 | 11 | 02 | 00.42 | -11 | 35 | 14.2 | 19.8 | VqEG036703 |
| K13W44T | C2014 | 03 | 29.87141 | 14 | 00 | 46.01 | +09 | 49 | 11.8 | | tEG036204 |
| K13W44T | C2014 | 03 | 29.87248 | 14 | 00 | 46.29 | +09 | 49 | 16.5 | | tEG036204 |
| K13W44T | C2014 | 03 | 29.87369 | 14 | 00 | 46.60 | +09 | 49 | 22.1 | | tEG036204 |
| K13W44T | C2014 | 03 | 29.87461 | 14 | 00 | 46.89 | +09 | 49 | 25.8 | | tEG036204 |
| K13W44T | C2014 | 03 | 29.87566 | 14 | 00 | 47.18 | +09 | 49 | 31.0 | 14.3 | RtEG036204 |
| K13W44T | C2014 | 04 | 07.04695 | 14 | 24 | 19.50 | +15 | 39 | 58.6 | 16.5 | VqEG036C47 |
| K13W44T | C2014 | 04 | 07.05027 | 14 | 24 | 19.76 | +15 | 40 | 03.2 | 16.3 | VqEG036C47 |
| K13W44T | C2014 | 04 | 07.05396 | 14 | 24 | 20.04 | +15 | 40 | 08.2 | 16.4 | VqEG036C47 |
| K13W44T | C2014 | 04 | 07.05765 | 14 | 24 | 20.33 | +15 | 40 | 13.2 | 16.2 | VqEG036C47 |
| K13W44T | C2014 | 04 | 07.06170 | 14 | 24 | 20.65 | +15 | 40 | 18.8 | 16.2 | VqEG036C47 |
| K13X21Y | KC2014 | 02 | 24.91802 | 05 | 11 | 07.85 | +70 | 29 | 39.7 | 19.7 | RqEG036204 |
| K13X21Y | KC2014 | 02 | 24.93916 | 05 | 11 | 18.36 | +70 | 29 | 09.0 | | qEG036204 |
| K13X22F | KC2014 | 02 | 24.96070 | 06 | 58 | 18.95 | +04 | 23 | 02.7 | | qEG036204 |
| K13X22F | KC2014 | 02 | 24.96893 | 06 | 58 | 19.34 | +04 | 22 | 55.3 | 18.4 | RqEG036204 |
| K13X22F | KC2014 | 02 | 24.97684 | 06 | 58 | 19.75 | +04 | 22 | 48.0 | | qEG036204 |
| K13X24M | KC2014 | 02 | 24.85691 | 03 | 49 | 52.30 | +71 | 32 | 06.5 | | qEG036204 |
| K13X24M | KC2014 | 02 | 24.88304 | 03 | 49 | 45.09 | +71 | 32 | 17.4 | 20.5 | RqEG036204 |
| K14A28Y | KC2014 | 03 | 30.10072 | 16 | 51 | 37.48 | +17 | 58 | 57.8 | 17.9 | RqEG036160 |
| K14A28Y | KC2014 | 03 | 30.10350 | 16 | 51 | 38.82 | +17 | 59 | 01.5 | 18.0 | RqEG036160 |
| K14A28Y | KC2014 | 03 | 30.10625 | 16 | 51 | 40.08 | +17 | 59 | 05.9 | 18.0 | RqEG036160 |
| K14B33D | KC2014 | 02 | 25.07404 | 08 | 58 | 52.85 | +20 | 16 | 15.0 | | tEG036204 |
| K14B33D | KC2014 | 02 | 25.08947 | 08 | 58 | 51.37 | +20 | 16 | 40.6 | 19.9 | RtEG036204 |
| K14C13S | FC2014 | 02 | 25.14978 | 11 | 31 | 12.89 | +10 | 16 | 31.5 | | tEG036204 |
| K14C13S | FC2014 | 02 | 25.16543 | 11 | 31 | 09.08 | +10 | 16 | 35.5 | 19.5 | RtEG036204 |
| K14D00A | KC2014 | 02 | 25.03265 | 09 | 04 | 17.12 | +10 | 47 | 28.8 | | tEG036204 |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|-------|-----|------|------|------|------------|
| K14D00A | KC2014 | 02 | 25.05125 | 09 | 04 | 18.99 | +10 | 47 | 21.2 | 19.4 | RtEG036204 |
| K14D07N | KC2014 | 02 | 24.99419 | 07 | 58 | 19.06 | +25 | 13 | 48.1 | | tEG036204 |
| K14D07N | FC2014 | 02 | 25.00598 | 07 | 58 | 14.71 | +25 | 14 | 49.1 | 19.9 | RtEG036204 |
| K14D07O | KC2014 | 02 | 25.04106 | 08 | 39 | 17.13 | +16 | 55 | 13.5 | | tEG036204 |
| K14D07O | KC2014 | 02 | 25.05497 | 08 | 39 | 19.10 | +16 | 57 | 35.3 | | tEG036204 |
| K14D07O | KC2014 | 02 | 25.06921 | 08 | 39 | 21.17 | +17 | 00 | 00.3 | 19.5 | RtEG036204 |
| K14D07P | KC2014 | 04 | 07.15132 | 10 | 49 | 16.66 | +26 | 03 | 39.1 | 21.6 | RoEG036291 |
| K14D07P | KC2014 | 04 | 07.16867 | 10 | 49 | 16.81 | +26 | 03 | 44.7 | 21.6 | RoEG036291 |
| K14D07P | KC2014 | 04 | 07.18604 | 10 | 49 | 16.96 | +26 | 03 | 49.9 | 22.2 | RoEG036291 |
| K14D10C | FC2014 | 02 | 24.94731 | 05 | 49 | 34.01 | +12 | 46 | 48.2 | 20 | RqEG036204 |
| K14D10C | FC2014 | 02 | 24.95903 | 05 | 49 | 33.47 | +12 | 47 | 12.5 | | qEG036204 |
| K14E12Q | KC2014 | 03 | 29.84165 | 13 | 22 | 42.10 | +26 | 42 | 16.6 | 16.8 | RtEG036204 |
| K14E12Q | KC2014 | 03 | 29.84345 | 13 | 22 | 43.53 | +26 | 42 | 58.8 | | tEG036204 |
| K14E12Q | KC2014 | 03 | 29.84519 | 13 | 22 | 44.93 | +26 | 43 | 40.1 | | tEG036204 |
| K14E12Q | KC2014 | 03 | 29.84719 | 13 | 22 | 46.49 | +26 | 44 | 26.9 | | tEG036204 |
| K14E12Q | KC2014 | 03 | 29.84885 | 13 | 22 | 47.81 | +26 | 45 | 06.2 | | tEG036204 |
| K14E45L | KC2014 | 04 | 06.41165216 | 40 | 49.70 | +55 | 03 | 49.3 | | 19.6 | VuEG036H21 |
| K14E45L | KC2014 | 04 | 06.41335116 | 40 | 50.31 | +55 | 03 | 52.9 | | 19.7 | VuEG036H21 |
| K14E45L | KC2014 | 04 | 06.41531916 | 40 | 51.03 | +55 | 03 | 56.8 | | 19.7 | VuEG036H21 |
| K14E45L | KC2014 | 04 | 06.41701916 | 40 | 51.65 | +55 | 04 | 00.1 | | 19.6 | VuEG036H21 |
| K14E45L | KC2014 | 04 | 06.41898716 | 40 | 52.37 | +55 | 04 | 04.1 | | 19.7 | VuEG036H21 |
| K14E48Z | C2014 | 04 | 07.20435 | 11 | 50 | 37.46 | +24 | 35 | 30.5 | 17.8 | rEG036718 |
| K14E48Z | C2014 | 04 | 07.20930 | 11 | 50 | 37.35 | +24 | 35 | 57.3 | 17.7 | rEG036718 |
| K14E48Z | C2014 | 04 | 07.21425 | 11 | 50 | 37.13 | +24 | 36 | 24.3 | 17.8 | rEG036718 |
| K14E49D | KC2014 | 04 | 06.17433011 | 32 | 36.52 | +15 | 50 | 04.4 | | 22.2 | VuEG036H21 |
| K14E49D | KC2014 | 04 | 06.19721511 | 32 | 35.32 | +15 | 50 | 02.9 | | 22.0 | VuEG036H21 |
| K14E49D | KC2014 | 04 | 06.21010911 | 32 | 34.61 | +15 | 50 | 01.8 | | 21.8 | VuEG036H21 |
| K14E49R | KC2014 | 04 | 07.38134 | 11 | 27 | 56.53 | +41 | 13 | 31.0 | 18.5 | RoEG036291 |
| K14E49R | KC2014 | 04 | 07.38636 | 11 | 27 | 56.09 | +41 | 13 | 34.3 | 18.4 | RoEG036291 |
| K14E49R | KC2014 | 04 | 07.39210 | 11 | 27 | 55.59 | +41 | 13 | 38.1 | 18.3 | RoEG036291 |
| K14F00F | KC2014 | 04 | 06.38653317 | 10 | 29.71 | +40 | 52 | 31.5 | | 20.7 | VuEG036H21 |
| K14F00F | KC2014 | 04 | 06.39663817 | 10 | 38.35 | +40 | 52 | 07.6 | | 20.7 | VuEG036H21 |
| K14F00F | KC2014 | 04 | 06.40710717 | 10 | 47.35 | +40 | 51 | 42.3 | | 21.0 | VuEG036H21 |
| K14F33C | KC2014 | 04 | 06.32017013 | 37 | 56.91 | +43 | 50 | 39.9 | | 22.3 | VuEG036H21 |
| K14F33C | KC2014 | 04 | 06.33662613 | 37 | 59.29 | +43 | 52 | 45.5 | | 21.8 | VuEG036H21 |
| K14F33C | KC2014 | 04 | 06.35417613 | 38 | 01.94 | +43 | 54 | 59.1 | | | uEG036H21 |
| K14F33H | KC2014 | 04 | 06.87822 | 13 | 45 | 35.23 | +06 | 36 | 47.4 | 19.9 | VqEG036A13 |
| K14F33H | KC2014 | 04 | 06.90132 | 13 | 45 | 32.99 | +06 | 37 | 22.2 | 20.3 | VqEG036A13 |
| K14F33H | KC2014 | 04 | 06.92504 | 13 | 45 | 30.67 | +06 | 37 | 58.6 | 20.4 | VqEG036A13 |
| K14F33H | C2014 | 04 | 07.33774 | 13 | 44 | 51.23 | +06 | 48 | 29.9 | 19.9 | VqEG036G96 |
| K14F33H | C2014 | 04 | 07.34597 | 13 | 44 | 50.40 | +06 | 48 | 42.6 | 19.8 | VqEG036G96 |
| K14F33H | C2014 | 04 | 07.35419 | 13 | 44 | 49.57 | +06 | 48 | 55.2 | 19.7 | VqEG036G96 |
| K14F33H | C2014 | 04 | 07.36243 | 13 | 44 | 48.75 | +06 | 49 | 07.6 | 19.7 | VqEG036G96 |
| K14F33K | KC2014 | 04 | 06.20432811 | 16 | 51.96 | +21 | 40 | 50.3 | | 20.9 | VuEG036H21 |
| K14F33K | KC2014 | 04 | 06.20610311 | 16 | 51.43 | +21 | 40 | 48.2 | | 20.9 | VuEG036H21 |
| K14F33K | KC2014 | 04 | 06.20799011 | 16 | 50.87 | +21 | 40 | 46.8 | | 20.7 | VuEG036H21 |
| K14F33K | KC2014 | 04 | 06.20963511 | 16 | 50.35 | +21 | 40 | 45.1 | | 20.9 | VuEG036H21 |
| K14F33L | KC2014 | 04 | 06.35976713 | 41 | 00.29 | +28 | 28 | 48.6 | | 20.6 | VuEG036H21 |
| K14F33L | KC2014 | 04 | 06.36474513 | 40 | 59.97 | +28 | 28 | 29 | 01.1 | 20.8 | VuEG036H21 |
| K14F33L | KC2014 | 04 | 06.36973313 | 40 | 59.70 | +28 | 29 | 13.5 | | 20.6 | VuEG036H21 |
| K14F33L | KC2014 | 04 | 07.30656 | 13 | 40 | 06.19 | +29 | 08 | 21.2 | 20.3 | RtEG036G58 |
| K14F33L | KC2014 | 04 | 07.31303 | 13 | 40 | 05.83 | +29 | 08 | 36.5 | 20.2 | RtEG036G58 |
| K14F33L | KC2014 | 04 | 07.31916 | 13 | 40 | 05.43 | +29 | 08 | 52.7 | 20.1 | RtEG036G58 |
| K14F33N | KC2014 | 04 | 06.33937014 | 28 | 55.40 | +17 | 04 | 58.6 | | 19.6 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 06.34436514 | 28 | 56.18 | +17 | 05 | 06.0 | | 19.6 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 06.34696314 | 28 | 56.55 | +17 | 05 | 09.9 | | 19.2 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 06.34976114 | 28 | 56.98 | +17 | 05 | 13.9 | | 19.4 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 06.35307314 | 28 | 57.48 | +17 | 05 | 18.4 | | 19.3 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 06.35646614 | 28 | 58.00 | +17 | 05 | 23.4 | | 19.4 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 06.35948014 | 28 | 58.46 | +17 | 05 | 27.9 | | 19.4 | VuEG036H21 |
| K14F33N | KC2014 | 04 | 07.32814 | 14 | 31 | 40.43 | +17 | 28 | 59.1 | 19.2 | RtEG036G58 |
| K14F33N | KC2014 | 04 | 07.33288 | 14 | 31 | 41.18 | +17 | 29 | 06.3 | 19.0 | RtEG036G58 |
| K14F33N | KC2014 | 04 | 07.33788 | 14 | 31 | 41.94 | +17 | 29 | 13.4 | 19.1 | RtEG036G58 |
| K14F37Q | KC2014 | 04 | 06.33292613 | 24 | 51.39 | -05 | 47 | 25.6 | | 19.6 | VuEG036H21 |
| K14F37Q | KC2014 | 04 | 06.33484713 | 24 | 50.61 | -05 | 47 | 38.0 | | 19.5 | VuEG036H21 |
| K14F37Q | KC2014 | 04 | 06.33707213 | 24 | 49.74 | -05 | 47 | 52.6 | | 19.4 | VuEG036H21 |
| K14F37Q | KC2014 | 04 | 06.33889213 | 24 | 49.01 | -05 | 48 | 04.4 | | 19.2 | VuEG036H21 |
| K14F37Q | KC2014 | 04 | 06.34131713 | 24 | 48.02 | -05 | 48 | 20.1 | | 19.2 | VuEG036H21 |
| K14F37Q | KC2014 | 04 | 07.29168 | 13 | 18 | 52.22 | -07 | 27 | 58.5 | 18.8 | RtEG036G58 |
| K14F37Q | KC2014 | 04 | 07.29460 | 13 | 18 | 51.11 | -07 | 28 | 16.3 | 18.6 | RtEG036G58 |
| K14F37Q | KC2014 | 04 | 07.29881 | 13 | 18 | 49.50 | -07 | 28 | 41.7 | 18.9 | RtEG036G58 |
| K14F38Q | KC2014 | 04 | 06.27523213 | 13 | 22.30 | +21 | 24 | 59.3 | | 22.2 | VuEG036H21 |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|-------|-----|------|------|------------|------------|
| K14F38Q | KC2014 | 04 | 06.28936513 | 13 | 19.24 | +21 | 25 | 45.1 | 22.0 | VuEG036H21 | |
| K14F38Q | KC2014 | 04 | 06.30370113 | 13 | 16.15 | +21 | 26 | 32.7 | | uEG036H21 | |
| K14F43Y | KC2014 | 04 | 06.24355812 | 39 | 44.34 | -04 | 05 | 55.3 | 19.7 | VuEG036H21 | |
| K14F43Y | KC2014 | 04 | 06.24621012 | 39 | 44.39 | -04 | 05 | 46.7 | 19.9 | VuEG036H21 | |
| K14F43Y | C2014 | 04 | 07.16700 | 12 | 40 | 22.21 | -03 | 14 | 28.2 | 19.8 | VoEG036691 |
| K14F43Y | C2014 | 04 | 07.18466 | 12 | 40 | 22.80 | -03 | 13 | 29.1 | 19.9 | VoEG036691 |
| K14F43Y | C2014 | 04 | 07.20232 | 12 | 40 | 23.35 | -03 | 12 | 29.5 | 19.7 | VoEG036691 |
| K14F44B | KC2014 | 04 | 02.02573 | 11 | 10 | 58.06 | +27 | 21 | 43.9 | 18.5 | RtEG036204 |
| K14F44B | KC2014 | 04 | 02.03670 | 11 | 11 | 22.28 | +27 | 24 | 56.7 | | tEG036204 |
| K14F44B | KC2014 | 04 | 02.04248 | 11 | 11 | 35.06 | +27 | 26 | 37.9 | | tEG036204 |
| K14F47N | KC2014 | 04 | 01.99353 | 10 | 45 | 16.23 | +03 | 48 | 46.8 | | tEG036204 |
| K14F47N | KC2014 | 04 | 02.00381 | 10 | 45 | 17.19 | +03 | 49 | 51.5 | 19.2 | RtEG036204 |
| K14F47N | KC2014 | 04 | 02.01455 | 10 | 45 | 18.27 | +03 | 50 | 59.4 | | tEG036204 |
| K14F47N | KC2014 | 04 | 06.12538210 | 52 | 51.46 | +10 | 46 | 56.7 | 19.6 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.13048610 | 52 | 51.97 | +10 | 47 | 26.5 | 19.4 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.13558310 | 52 | 52.53 | +10 | 47 | 55.7 | 19.6 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.19011310 | 52 | 58.27 | +10 | 53 | 10.3 | 19.5 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.19260010 | 52 | 58.52 | +10 | 53 | 24.5 | 19.5 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.19496810 | 52 | 58.77 | +10 | 53 | 38.3 | 19.5 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.19710010 | 52 | 59.00 | +10 | 53 | 50.6 | 19.4 | VuEG036H21 | |
| K14F47N | KC2014 | 04 | 06.19982410 | 52 | 59.27 | +10 | 54 | 06.3 | 19.6 | VuEG036H21 | |
| K14F47P | KC2014 | 04 | 06.28247012 | 41 | 39.49 | +04 | 31 | 58.5 | 19.5 | VuEG036H21 | |
| K14F47P | KC2014 | 04 | 06.28468112 | 41 | 39.03 | +04 | 31 | 59.2 | 19.1 | VuEG036H21 | |
| K14F47P | KC2014 | 04 | 06.28674212 | 41 | 38.60 | +04 | 31 | 59.5 | 19.5 | VuEG036H21 | |
| K14F52R | KC2014 | 04 | 07.27328 | 11 | 57 | 05.37 | +13 | 57 | 11.4 | 19.7 | RtEG036G58 |
| K14F52R | KC2014 | 04 | 07.27905 | 11 | 57 | 05.68 | +13 | 56 | 56.8 | 19.4 | RtEG036G58 |
| K14F52R | KC2014 | 04 | 07.28421 | 11 | 57 | 05.97 | +13 | 56 | 44.4 | 19.8 | RtEG036G58 |
| K14F52S | KC2014 | 04 | 06.38964915 | 15 | 37.43 | -03 | 51 | 22.8 | 19.5 | VuEG036H21 | |
| K14F52S | KC2014 | 04 | 06.39331715 | 15 | 42.40 | -03 | 51 | 23.1 | 19.6 | VuEG036H21 | |
| K14F52S | KC2014 | 04 | 06.39743115 | 15 | 48.02 | -03 | 51 | 23.3 | 19.3 | VuEG036H21 | |
| K14F52S | KC2014 | 04 | 06.40101015 | 15 | 52.86 | -03 | 51 | 23.3 | 19.4 | VuEG036H21 | |
| K14F52S | KC2014 | 04 | 06.40539315 | 15 | 58.83 | -03 | 51 | 23.8 | 19.4 | VuEG036H21 | |
| K14F54H | KC2014 | 04 | 06.14931210 | 39 | 11.29 | +17 | 15 | 07.5 | 21.8 | VuEG036H21 | |
| K14F54H | KC2014 | 04 | 06.16091610 | 39 | 12.17 | +17 | 14 | 23.2 | 22.1 | VuEG036H21 | |
| K14F54H | KC2014 | 04 | 06.17231510 | 39 | 13.00 | +17 | 13 | 39.4 | 21.6 | VuEG036H21 | |
| K14F54H | KC2014 | 04 | 07.12568 | 10 | 40 | 29.54 | +16 | 15 | 57.3 | 21.5 | RoEG036291 |
| K14F54H | KC2014 | 04 | 07.13168 | 10 | 40 | 29.92 | +16 | 15 | 36.7 | 21.2 | RoEG036291 |
| K14F54H | KC2014 | 04 | 07.13770 | 10 | 40 | 30.35 | +16 | 15 | 16.4 | 21.6 | RoEG036291 |
| K14G01G | KC2014 | 04 | 06.36656515 | 08 | 48.77 | +19 | 38 | 35.2 | 20.6 | VuEG036H21 | |
| K14G01G | KC2014 | 04 | 06.37010215 | 08 | 49.29 | +19 | 38 | 21.3 | 20.5 | VuEG036H21 | |
| K14G01G | KC2014 | 04 | 06.38159415 | 08 | 50.96 | +19 | 37 | 34.4 | 20.6 | VuEG036H21 | |
| K14G01G | C2014 | 04 | 07.47527 | 15 | 12 | 23.85 | +18 | 31 | 37.6 | 21.4 | VqEG036G96 |
| K14G01G | C2014 | 04 | 07.48000 | 15 | 12 | 24.33 | +18 | 31 | 21.7 | 20.7 | VqEG036G96 |
| K14G01G | C2014 | 04 | 07.48474 | 15 | 12 | 24.83 | +18 | 31 | 04.6 | 21.6 | VqEG036G96 |
| K14G01G | C2014 | 04 | 07.48948 | 15 | 12 | 25.34 | +18 | 30 | 47.6 | 21.1 | VqEG036G96 |
| K14G01J | KC2014 | 04 | 06.17260810 | 40 | 53.95 | +22 | 57 | 44.3 | 20.1 | VuEG036H21 | |
| K14G01J | KC2014 | 04 | 06.17509710 | 40 | 54.02 | +22 | 57 | 25.1 | 20.2 | VuEG036H21 | |
| K14G01J | KC2014 | 04 | 06.17841310 | 40 | 54.14 | +22 | 56 | 59.7 | 20.3 | VuEG036H21 | |
| K14G01J | KC2014 | 04 | 06.18101910 | 40 | 54.23 | +22 | 56 | 39.7 | 20.2 | VuEG036H21 | |
| K14G01J | KC2014 | 04 | 06.18433110 | 40 | 54.38 | +22 | 56 | 14.2 | 20.3 | VuEG036H21 | |
| K14G01J | KC2014 | 04 | 07.23861 | 10 | 42 | 15.80 | +20 | 50 | 04.6 | 20.0 | RtEG036G58 |
| K14G01J | KC2014 | 04 | 07.24208 | 10 | 42 | 16.04 | +20 | 49 | 43.0 | 20.0 | RtEG036G58 |
| K14G01J | KC2014 | 04 | 07.24486 | 10 | 42 | 16.09 | +20 | 49 | 22.5 | 19.3 | RtEG036G58 |
| K14G01L | KC2014 | 04 | 06.22523912 | 15 | 04.56 | -02 | 45 | 18.4 | | uEG036H21 | |
| K14G01L | KC2014 | 04 | 06.24148512 | 15 | 01.14 | -02 | 45 | 15.7 | 22.4 | VuEG036H21 | |
| K14G01L | KC2014 | 04 | 06.25865812 | 14 | 57.58 | -02 | 45 | 12.2 | 22.2 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.07996109 | 45 | 39.90 | +32 | 24 | 04.5 | 16.0 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.08168809 | 45 | 10.15 | +32 | 29 | 00.3 | 16.4 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.08332509 | 44 | 41.75 | +32 | 33 | 41.5 | 16.0 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.16436009 | 18 | 21.62 | +36 | 30 | 42.8 | 16.1 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.16567309 | 17 | 52.91 | +36 | 34 | 36.7 | 16.3 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.16654609 | 17 | 33.76 | +36 | 37 | 12.2 | 16.4 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.16750809 | 17 | 12.64 | +36 | 40 | 02.7 | 16.7 | VuEG036H21 | |
| K14G01N | C2014 | 04 | 06.16923809 | 16 | 34.51 | +36 | 45 | 10.4 | 16.0 | VuEG036H21 | |
| K14G17G | KC2014 | 04 | 06.23009013 | 32 | 37.31 | -02 | 11 | 49.0 | 21.0 | VuEG036H21 | |
| K14G17G | KC2014 | 04 | 06.23583013 | 32 | 36.63 | -02 | 11 | 25.0 | 20.8 | VuEG036H21 | |
| K14G17G | KC2014 | 04 | 06.24266113 | 32 | 35.78 | -02 | 10 | 56.6 | 20.8 | VuEG036H21 | |
| K14G17G | HC2014 | 04 | 07.31388 | 13 | 30 | 31.01 | -00 | 57 | 25.5 | 19.5 | RoEG036291 |
| K14G17G | HC2014 | 04 | 07.31534 | 13 | 30 | 30.83 | -00 | 57 | 19.6 | 19.5 | RoEG036291 |
| K14G17G | HC2014 | 04 | 07.31678 | 13 | 30 | 30.65 | -00 | 57 | 13.6 | 19.4 | RoEG036291 |
| K14G17O | KC2014 | 04 | 06.14450711 | 56 | 17.77 | +08 | 47 | 15.3 | 18.3 | VuEG036H21 | |
| K14G17O | KC2014 | 04 | 06.14773211 | 56 | 19.87 | +08 | 46 | 22.1 | 18.3 | VuEG036H21 | |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|-------|-----|------|------|------------|------------|
| K14G17O | KC2014 | 04 | 06.15094611 | 56 | 21.98 | +08 | 45 | 29.2 | 18.2 | VuEG036H21 | |
| K14G17O | KC2014 | 04 | 06.15419711 | 56 | 24.10 | +08 | 44 | 35.7 | 18.3 | VuEG036H21 | |
| K14G17O | KC2014 | 04 | 06.15748411 | 56 | 26.24 | +08 | 43 | 41.8 | 18.2 | VuEG036H21 | |
| K14G17O | C2014 | 04 | 07.19141 | 12 | 07 | 11.97 | +04 | 28 | 39.5 | 18.1 | VqEG036G96 |
| K14G17O | C2014 | 04 | 07.20056 | 12 | 07 | 16.67 | +04 | 26 | 38.1 | 18.1 | VqEG036G96 |
| K14G17O | C2014 | 04 | 07.20971 | 12 | 07 | 21.33 | +04 | 24 | 37.1 | 18.4 | VqEG036G96 |
| K14G17O | C2014 | 04 | 07.21887 | 12 | 07 | 25.98 | +04 | 22 | 36.2 | 18.1 | VqEG036G96 |
| K14G17P | KC2014 | 04 | 06.27530814 | 09 | 43.61 | +24 | 23 | 40.2 | 19.7 | VuEG036H21 | |
| K14G17P | KC2014 | 04 | 06.27895114 | 09 | 48.32 | +24 | 23 | 35.2 | 19.7 | VuEG036H21 | |
| K14G17P | KC2014 | 04 | 06.28337114 | 09 | 54.05 | +24 | 23 | 29.0 | 19.6 | VuEG036H21 | |
| K14G17P | KC2014 | 04 | 07.34520 | 14 | 36 | 42.49 | +23 | 46 | 30.0 | 19.6 | RtEG036G58 |
| K14G17P | KC2014 | 04 | 07.34798 | 14 | 36 | 46.89 | +23 | 46 | 22.5 | 19.6 | RtEG036G58 |
| K14G17P | KC2014 | 04 | 07.35076 | 14 | 36 | 51.29 | +23 | 46 | 14.9 | 19.9 | RtEG036G58 |
| K14G17P | KC2014 | 04 | 07.35389 | 14 | 36 | 56.27 | +23 | 46 | 06.4 | 20.0 | RtEG036G58 |
| K14G17Q | C2014 | 04 | 06.21162112 | 59 | 58.71 | +03 | 42 | 48.6 | 17.5 | VuEG036H21 | |
| K14G17Q | C2014 | 04 | 06.21377912 | 59 | 51.70 | +03 | 43 | 05.4 | 17.7 | VuEG036H21 | |
| K14G17Q | C2014 | 04 | 06.21590912 | 59 | 44.81 | +03 | 43 | 21.0 | 17.6 | VuEG036H21 | |
| K14G17Q | C2014 | 04 | 06.21806112 | 59 | 37.80 | +03 | 43 | 38.0 | 17.5 | VuEG036H21 | |
| K14G17Q | C2014 | 04 | 06.22022712 | 59 | 30.82 | +03 | 43 | 54.1 | 17.3 | VuEG036H21 | |
| K14G17Q | C2014 | 04 | 06.22242712 | 59 | 23.63 | +03 | 44 | 11.0 | 17.3 | VuEG036H21 | |
| K14G17Q | KC2014 | 04 | 06.87330 | 12 | 33 | 22.47 | +04 | 49 | 12.0 | 18.1 | VqEG036C77 |
| K14G17Q | KC2014 | 04 | 06.87538 | 12 | 33 | 17.77 | +04 | 49 | 22.7 | 17.6 | VqEG036C77 |
| K14G17Q | KC2014 | 04 | 06.87746 | 12 | 33 | 13.13 | +04 | 49 | 33.0 | 18.3 | VqEG036C77 |
| K14G17Q | KC2014 | 04 | 06.87953 | 12 | 33 | 08.45 | +04 | 49 | 43.9 | 18.6 | VqEG036C77 |
| K14G17Q | KC2014 | 04 | 06.88154 | 12 | 33 | 03.94 | +04 | 49 | 54.0 | 17.9 | VqEG036C77 |
| 01862 | C2014 | 04 | 07.26144 | 11 | 41 | 03.68 | +09 | 57 | 03.4 | 17.3 | VqEG036703 |
| 01862 | C2014 | 04 | 07.26946 | 11 | 41 | 02.50 | +09 | 57 | 07.6 | 17.4 | VqEG036703 |
| 01862 | C2014 | 04 | 07.27746 | 11 | 41 | 01.33 | +09 | 57 | 12.4 | 17.4 | VqEG036703 |
| 01862 | C2014 | 04 | 07.28546 | 11 | 41 | 00.16 | +09 | 57 | 16.7 | 17.2 | VqEG036703 |
| 01943 | C2014 | 04 | 04.85010 | 07 | 49 | 18.28 | -07 | 13 | 44.0 | | qEG036I55 |
| 01943 | C2014 | 04 | 04.88294 | 07 | 49 | 20.81 | -07 | 13 | 25.6 | | qEG036I55 |
| 01943 | C2014 | 04 | 04.94553 | 07 | 49 | 25.67 | -07 | 12 | 50.8 | 15.4 | RrEG036006 |
| 01943 | C2014 | 04 | 04.95274 | 07 | 49 | 26.27 | -07 | 12 | 46.6 | 15.6 | RrEG036006 |
| 01943 | C2014 | 04 | 04.96032 | 07 | 49 | 26.87 | -07 | 12 | 42.7 | 15.5 | RrEG036006 |
| 01943 | C2014 | 04 | 05.83878 | 07 | 50 | 43.35 | -07 | 04 | 35.0 | 15.5 | RrEG036006 |
| 01943 | C2014 | 04 | 05.84598 | 07 | 50 | 43.93 | -07 | 04 | 30.8 | 15.6 | RrEG036006 |
| 01943 | C2014 | 04 | 05.85223 | 07 | 50 | 44.43 | -07 | 04 | 27.4 | 15.6 | RrEG036006 |
| 01943 | C2014 | 04 | 05.86071 | 07 | 50 | 45.16 | -07 | 04 | 22.1 | | qEG036I55 |
| 01943 | C2014 | 04 | 05.88341 | 07 | 50 | 46.90 | -07 | 04 | 09.9 | | qEG036I55 |
| 01980 | C2014 | 04 | 07.13564 | 08 | 28 | 51.51 | -19 | 42 | 05.0 | 17.4 | RoEG036926 |
| 01980 | C2014 | 04 | 07.15391 | 08 | 28 | 51.94 | -19 | 41 | 50.0 | 17.5 | RoEG036926 |
| 01980 | C2014 | 04 | 07.17217 | 08 | 28 | 52.36 | -19 | 41 | 34.9 | 17.6 | RoEG036926 |
| 02061 | C2014 | 04 | 07.29548 | 14 | 27 | 50.47 | -14 | 09 | 13.1 | 21.1 | VoEG036691 |
| 02061 | C2014 | 04 | 07.31321 | 14 | 27 | 49.51 | -14 | 09 | 07.2 | 21.0 | VoEG036691 |
| 02061 | C2014 | 04 | 07.33092 | 14 | 27 | 48.54 | -14 | 09 | 02.0 | 20.8 | VoEG036691 |
| 03103 | C2014 | 04 | 06.92465 | 15 | 12 | 00.24 | +23 | 11 | 08.5 | 17.5 | woEG036C41 |
| 03103 | C2014 | 04 | 06.92568 | 15 | 12 | 00.17 | +23 | 11 | 10.0 | 17.6 | woEG036C41 |
| 03103 | C2014 | 04 | 06.96972 | 15 | 11 | 57.28 | +23 | 11 | 57.3 | 17.3 | woEG036C41 |
| 03103 | C2014 | 04 | 07.40590 | 15 | 11 | 29.09 | +23 | 19 | 50.6 | 18.0 | VqEG036G96 |
| 03103 | C2014 | 04 | 07.41577 | 15 | 11 | 28.42 | +23 | 20 | 01.2 | 18.0 | VqEG036G96 |
| 03103 | C2014 | 04 | 07.42563 | 15 | 11 | 27.74 | +23 | 20 | 11.9 | 18.0 | VqEG036G96 |
| 03103 | C2014 | 04 | 07.43551 | 15 | 11 | 27.07 | +23 | 20 | 22.5 | 17.9 | VqEG036G96 |
| 05626 | C2014 | 04 | 07.17193 | 12 | 56 | 32.84 | -03 | 38 | 23.6 | 18.4 | VoEG036691 |
| 05626 | C2014 | 04 | 07.18959 | 12 | 56 | 31.74 | -03 | 38 | 15.8 | 18.4 | VoEG036691 |
| 05626 | C2014 | 04 | 07.20725 | 12 | 56 | 30.63 | -03 | 38 | 08.2 | 18.4 | VoEG036691 |
| 13651 | KC2014 | 04 | 06.83046 | 11 | 52 | 18.11 | +83 | 04 | 01.4 | 17.9 | VqEG036C77 |
| 13651 | KC2014 | 04 | 06.83407 | 11 | 52 | 18.49 | +83 | 04 | 07.3 | 18.2 | VqEG036C77 |
| 13651 | KC2014 | 04 | 06.83712 | 11 | 52 | 18.80 | +83 | 04 | 12.3 | 18.2 | VqEG036C77 |
| 21374 | C2014 | 04 | 07.39867 | 17 | 26 | 44.97 | +25 | 04 | 20.5 | 17.4 | VqEG036703 |
| 21374 | C2014 | 04 | 07.40616 | 17 | 26 | 45.44 | +25 | 04 | 12.9 | 17.4 | VqEG036703 |
| 21374 | C2014 | 04 | 07.41365 | 17 | 26 | 45.94 | +25 | 04 | 05.8 | 17.3 | VqEG036703 |
| 21374 | C2014 | 04 | 07.42115 | 17 | 26 | 46.46 | +25 | 03 | 58.9 | 17.4 | VqEG036703 |
| 24445 | C2014 | 04 | 05.90957 | 09 | 58 | 45.11 | -10 | 08 | 05.1 | 17.2 | RrEG036006 |
| 24445 | C2014 | 04 | 05.91637 | 09 | 58 | 45.24 | -10 | 07 | 54.7 | 17.0 | RrEG036006 |
| 24445 | C2014 | 04 | 05.92316 | 09 | 58 | 45.40 | -10 | 07 | 45.6 | 16.9 | RrEG036006 |
| 24445 | C2014 | 04 | 07.17445 | 09 | 59 | 16.79 | -09 | 39 | 11.1 | 17.1 | VqEG036703 |
| 24445 | C2014 | 04 | 07.18094 | 09 | 59 | 16.95 | -09 | 39 | 02.3 | 17.1 | VqEG036703 |
| 24445 | C2014 | 04 | 07.18743 | 09 | 59 | 17.08 | -09 | 38 | 53.6 | 17.1 | VqEG036703 |
| 24445 | C2014 | 04 | 07.19391 | 09 | 59 | 17.24 | -09 | 38 | 44.7 | 17.1 | VqEG036703 |
| 36183 | C2014 | 04 | 07.44393 | 15 | 04 | 57.92 | +21 | 48 | 41.0 | 19.1 | VqEG036G96 |
| 36183 | C2014 | 04 | 07.45120 | 15 | 04 | 57.15 | +21 | 48 | 42.0 | 19.2 | VqEG036G96 |
| 36183 | C2014 | 04 | 07.45846 | 15 | 04 | 56.36 | +21 | 48 | 43.0 | 19.0 | VqEG036G96 |

| | | | | | | | | | | | |
|-------|--------|----|-------------|----|-------|-------|-----|------|------|------|------------|
| 36183 | C2014 | 04 | 07.46572 | 15 | 04 | 55.59 | +21 | 48 | 43.9 | 18.7 | VqEG036G96 |
| 68031 | C2014 | 04 | 06.59244 | 13 | 13 | 01.67 | +53 | 24 | 33.2 | 18.1 | woEG036D54 |
| 68031 | C2014 | 04 | 06.62272 | 13 | 13 | 00.65 | +53 | 24 | 24.1 | 18.5 | woEG036D54 |
| 86039 | C2014 | 04 | 05.85907 | 08 | 14 | 11.74 | +09 | 09 | 24.2 | 17.1 | RrEG036006 |
| 86039 | C2014 | 04 | 05.86537 | 08 | 14 | 13.36 | +09 | 09 | 18.1 | 17.1 | RrEG036006 |
| 86039 | C2014 | 04 | 05.87166 | 08 | 14 | 14.92 | +09 | 09 | 13.2 | 17.0 | RrEG036006 |
| 86878 | C2014 | 04 | 05.36919 | 06 | 47 | 44.05 | -48 | 56 | 59.6 | 15.7 | RqEG036E89 |
| 86878 | C2014 | 04 | 05.37066 | 06 | 47 | 47.35 | -48 | 56 | 55.4 | 16.2 | RqEG036E89 |
| 86878 | C2014 | 04 | 05.37191 | 06 | 47 | 50.18 | -48 | 56 | 52.2 | 15.8 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.31537 | 07 | 22 | 36.05 | -47 | 59 | 09.8 | 15.5 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.31942 | 07 | 22 | 44.61 | -47 | 58 | 49.4 | 15.5 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.32403 | 07 | 22 | 54.28 | -47 | 58 | 26.4 | 16.3 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.32652 | 07 | 22 | 59.42 | -47 | 58 | 14.9 | 16.3 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.32824 | 07 | 23 | 02.95 | -47 | 58 | 05.8 | 15.7 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.32882 | 07 | 23 | 04.27 | -47 | 58 | 03.1 | 15.3 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.32940 | 07 | 23 | 05.45 | -47 | 58 | 01.0 | 15.3 | RqEG036E89 |
| 86878 | C2014 | 04 | 06.33183 | 07 | 23 | 10.62 | -47 | 57 | 48.3 | 15.7 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.30826 | 07 | 56 | 24.03 | -46 | 21 | 21.3 | 14.5 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.30932 | 07 | 56 | 26.03 | -46 | 21 | 14.1 | 15.1 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31353 | 07 | 56 | 33.99 | -46 | 20 | 45.1 | 15.6 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31404 | 07 | 56 | 34.96 | -46 | 20 | 41.6 | 15.4 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31510 | 07 | 56 | 36.99 | -46 | 20 | 34.0 | 14.9 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31565 | 07 | 56 | 38.10 | -46 | 20 | 30.3 | 14.9 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31618 | 07 | 56 | 39.10 | -46 | 20 | 26.3 | 15.1 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31778 | 07 | 56 | 42.07 | -46 | 20 | 15.4 | 15.1 | RqEG036E89 |
| 86878 | C2014 | 04 | 07.31831 | 07 | 56 | 43.05 | -46 | 20 | 12.4 | 15.2 | RqEG036E89 |
| 89355 | 4C2014 | 04 | 07.03591 | 18 | 30 | 40.86 | +14 | 00 | 35.3 | 17.0 | VqEG036G40 |
| 89355 | 4C2014 | 04 | 07.03671 | 18 | 30 | 40.94 | +14 | 00 | 35.1 | 16.8 | VqEG036G40 |
| 89355 | 4C2014 | 04 | 07.06998 | 18 | 30 | 44.17 | +14 | 00 | 29.8 | 16.7 | VqEG036G40 |
| 89355 | 4C2014 | 04 | 07.07065 | 18 | 30 | 44.22 | +14 | 00 | 29.5 | 16.7 | VqEG036G40 |
| 89355 | 4C2014 | 04 | 07.07146 | 18 | 30 | 44.29 | +14 | 00 | 29.5 | 16.8 | VqEG036G40 |
| D6618 | C2014 | 04 | 07.19349 | 11 | 53 | 27.93 | +03 | 35 | 19.1 | 19.6 | VqEG036G96 |
| D6618 | C2014 | 04 | 07.20263 | 11 | 53 | 27.16 | +03 | 35 | 23.7 | 19.5 | VqEG036G96 |
| D6618 | C2014 | 04 | 07.21179 | 11 | 53 | 26.42 | +03 | 35 | 28.1 | 19.4 | VqEG036G96 |
| D6618 | C2014 | 04 | 07.22094 | 11 | 53 | 25.64 | +03 | 35 | 32.7 | 19.2 | VqEG036G96 |
| D6900 | C2014 | 04 | 07.40472 | 15 | 00 | 12.00 | -15 | 37 | 13.2 | 18.3 | VoEG036691 |
| D6900 | C2014 | 04 | 07.42244 | 15 | 00 | 09.49 | -15 | 36 | 50.2 | 19.5 | VoEG036691 |
| D6900 | C2014 | 04 | 07.44016 | 15 | 00 | 06.94 | -15 | 36 | 27.7 | 18.6 | VoEG036691 |
| E1495 | C2014 | 04 | 07.17193 | 12 | 56 | 06.55 | -02 | 55 | 10.3 | 20.5 | VoEG036691 |
| E1495 | C2014 | 04 | 07.18959 | 12 | 56 | 03.72 | -02 | 54 | 54.0 | 20.0 | VoEG036691 |
| E1495 | C2014 | 04 | 07.20725 | 12 | 56 | 00.96 | -02 | 54 | 37.3 | 20.3 | VoEG036691 |
| E3649 | C2014 | 04 | 04.89282 | 06 | 46 | 18.29 | -00 | 02 | 19.3 | 17.6 | RrEG036006 |
| E3649 | C2014 | 04 | 04.89974 | 06 | 46 | 19.34 | -00 | 03 | 31.1 | 17.3 | RrEG036006 |
| E3649 | C2014 | 04 | 04.90652 | 06 | 46 | 20.37 | -00 | 04 | 41.4 | 17.5 | RrEG036006 |
| E3649 | C2014 | 04 | 05.83539 | 06 | 48 | 42.67 | -02 | 35 | 28.5 | 16.0 | RqEG036C23 |
| E3649 | C2014 | 04 | 05.83810 | 06 | 48 | 43.02 | -02 | 35 | 52.8 | 15.9 | RqEG036C23 |
| E3649 | C2014 | 04 | 05.84011 | 06 | 48 | 43.32 | -02 | 36 | 11.7 | 16.1 | RqEG036C23 |
| E3649 | C2014 | 04 | 05.84212 | 06 | 48 | 43.59 | -02 | 36 | 29.7 | 15.8 | RqEG036C23 |
| E3649 | C2014 | 04 | 05.84453 | 06 | 48 | 43.93 | -02 | 36 | 51.2 | 16.0 | RqEG036C23 |
| G2157 | KC2014 | 04 | 06.40081716 | 04 | 16.43 | +10 | 25 | 04.0 | | 22.2 | VuEG036H21 |
| G2157 | KC2014 | 04 | 06.40946916 | 04 | 16.03 | +10 | 25 | 13.0 | | 21.9 | VuEG036H21 |
| G2157 | KC2014 | 04 | 06.41769416 | 04 | 15.63 | +10 | 25 | 21.3 | | 22.0 | VuEG036H21 |
| G2566 | C2014 | 04 | 05.88161 | 08 | 27 | 10.93 | +08 | 15 | 28.0 | 16.9 | RrEG036006 |
| G2566 | C2014 | 04 | 05.88838 | 08 | 27 | 12.26 | +08 | 15 | 17.0 | 17.1 | RrEG036006 |
| G2566 | C2014 | 04 | 05.89720 | 08 | 27 | 13.93 | +08 | 15 | 02.1 | 17.0 | RrEG036006 |
| G3014 | C2014 | 04 | 07.30060 | 13 | 52 | 04.56 | +03 | 51 | 48.8 | 18.6 | VqEG036G96 |
| G3014 | C2014 | 04 | 07.30943 | 13 | 52 | 03.54 | +03 | 51 | 49.4 | 18.6 | VqEG036G96 |
| G3014 | C2014 | 04 | 07.31825 | 13 | 52 | 02.53 | +03 | 51 | 50.1 | 18.6 | VqEG036G96 |
| G3014 | C2014 | 04 | 07.32708 | 13 | 52 | 01.51 | +03 | 51 | 50.6 | 18.6 | VqEG036G96 |
| G3243 | KC2014 | 04 | 06.80479 | 07 | 20 | 19.63 | -02 | 17 | 58.3 | 18.1 | VqEG036C77 |
| G3243 | KC2014 | 04 | 06.80935 | 07 | 20 | 20.19 | -02 | 17 | 49.5 | 18.7 | VqEG036C77 |
| G3243 | KC2014 | 04 | 06.81430 | 07 | 20 | 20.79 | -02 | 17 | 40.7 | 17.8 | VqEG036C77 |
| G3243 | KC2014 | 04 | 06.83598 | 07 | 20 | 23.48 | -02 | 16 | 58.8 | 18.0 | VqEG036K32 |
| G3243 | KC2014 | 04 | 06.84335 | 07 | 20 | 24.42 | -02 | 16 | 44.5 | 17.9 | VqEG036K32 |
| G3243 | KC2014 | 04 | 06.85072 | 07 | 20 | 25.31 | -02 | 16 | 30.3 | 17.8 | VqEG036K32 |
| H3664 | KC2014 | 04 | 06.86669 | 13 | 35 | 15.64 | +00 | 25 | 18.9 | 20.2 | VqEG036A13 |
| H3664 | KC2014 | 04 | 06.89022 | 13 | 35 | 13.49 | +00 | 25 | 36.1 | 20.3 | VqEG036A13 |
| H3664 | KC2014 | 04 | 06.91396 | 13 | 35 | 11.44 | +00 | 25 | 49.7 | 20.6 | VqEG036A13 |
| K6359 | C2014 | 04 | 07.37484 | 15 | 00 | 26.41 | +38 | 21 | 04.9 | 20.4 | VqEG036G96 |
| K6359 | C2014 | 04 | 07.38075 | 15 | 00 | 26.00 | +38 | 21 | 11.4 | 20.3 | VqEG036G96 |
| K6359 | C2014 | 04 | 07.38667 | 15 | 00 | 25.61 | +38 | 21 | 18.1 | 20.3 | VqEG036G96 |
| K6359 | C2014 | 04 | 07.39260 | 15 | 00 | 25.23 | +38 | 21 | 24.8 | 20.3 | VqEG036G96 |

| | | |
|-------|--|-----------------|
| O9595 | C2014 04 07.12544 09 56 24.51 +12 09 18.2 | 19.1 VqEG036G96 |
| O9595 | C2014 04 07.13428 09 56 24.90 +12 09 11.5 | 19.2 VqEG036G96 |
| O9595 | C2014 04 07.14311 09 56 25.31 +12 09 04.9 | 19.1 VqEG036G96 |
| O9595 | C2014 04 07.15196 09 56 25.70 +12 08 58.3 | 19.1 VqEG036G96 |
| P2793 | C2014 04 06.91136 13 09 44.26 +36 14 50.4 | 17.9 RrEG036106 |
| P2793 | C2014 04 06.92549 13 09 35.23 +36 13 18.5 | 18.3 RrEG036106 |
| P2793 | C2014 04 06.93982 13 09 26.16 +36 11 45.9 | 17.5 RrEG036106 |
| P2793 | C2014 04 06.95392 13 09 17.17 +36 10 13.4 | 17.6 RrEG036106 |
| Q7337 | KC2014 04 06.84513 13 37 28.86 +38 03 53.3 | 18.0 VqEG036C77 |
| Q7337 | KC2014 04 06.84780 13 37 28.30 +38 03 57.4 | 18.1 VqEG036C77 |
| Q7337 | KC2014 04 06.85008 13 37 27.81 +38 04 00.8 | 17.6 VqEG036C77 |
| R1480 | C2014 04 07.45901 17 28 34.45 +20 18 39.5 | 18.7 VqEG036703 |
| R1480 | C2014 04 07.46525 17 28 34.18 +20 18 52.3 | 19.0 VqEG036703 |
| R1480 | C2014 04 07.47150 17 28 33.93 +20 19 06.1 | 18.6 VqEG036703 |
| R1480 | C2014 04 07.47779 17 28 33.63 +20 19 19.8 | 18.5 VqEG036703 |
| R1480 | C2014 04 07.48408 17 28 33.33 +20 19 33.6 | 18.6 VqEG036703 |
| R4138 | C2014 04 07.26294 11 30 17.52 +00 32 23.9 | 17.6 VqEG036703 |
| R4138 | C2014 04 07.27096 11 30 16.13 +00 32 41.5 | 17.7 VqEG036703 |
| R4138 | C2014 04 07.27896 11 30 14.75 +00 32 59.5 | 17.6 VqEG036703 |
| R4138 | C2014 04 07.28695 11 30 13.35 +00 33 16.6 | 17.6 VqEG036703 |
| U4330 | C2014 04 06.04230 22 15 16.22 +83 30 52.3 | 17.4 RqEG036C23 |
| U4330 | C2014 04 06.04604 22 15 21.88 +83 30 50.6 | 17.4 RqEG036C23 |
| U4330 | C2014 04 06.04979 22 15 27.16 +83 30 48.1 | 17.2 RqEG036C23 |
| U4330 | C2014 04 06.05279 22 15 31.61 +83 30 47.0 | 17.3 RqEG036C23 |
| c7793 | C2014 04 07.13788 08 27 52.96 -18 04 41.4 | 19.5 RoEG036926 |
| c7793 | C2014 04 07.15616 08 27 52.19 -18 04 26.4 | 19.7 RoEG036926 |
| c7793 | C2014 04 07.17442 08 27 51.42 -18 04 11.5 | 19.3 RoEG036926 |

A. U. Tomatic

(C) Copyright 2014 MPC

M.P.E.C. 2014-G36

◀ [Read MPEC 2014-G35](#) ▶ [Read MPEC 2014-G37](#)

 MPEC number:

Enter an MPEC number in one of the following forms:

- 1997-B01 (the full form)
- J97B01 (the packed version of the full form)
- B01 (the abbreviated form)

[Home](#)

[About](#)

[Contact](#)

[For Observers](#)

[For the Public](#)

©2013 The Minor Planet Center. All Rights Reserved.