

MPEC 2012-D37 : DAILY ORBIT UPDATE (2012 FEB. 21 UT)

The following [Minor Planet Electronic Circular](#) may be linked-to from your own Web pages, but must **not** otherwise be [redistributed electronically](#).

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



[Read MPEC 2012-D36](#)



[Read MPEC 2012-D38](#)

M.P.E.C. 2012-D37

Issued 2012 Feb. 21, 06:03 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 (2012 FEB. 21 UT)

Update to [MPEC 2012-D27](#)

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

New identification:

| | | |
|---------|---------|------|
| K04E00Y | K12D03T | MPCS |
| K12B32U | K10KA2V | MPCS |

New multiple-opposition orbits:

| Object | H | G | Epoch | M | Peri. | Node | Incl. | e | a | Opp | C |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|---|
| J93N01F | 15.7 | 0.15 | K123E | 188.671 | 225.286 | 115.714 | 13.137 | 0.30071 | 2.54480 | 9 | X |
| J96R01L | 16.9 | 0.15 | K123E | 114.805 | 205.109 | 158.653 | 4.945 | 0.21313 | 2.78413 | 4 | X |
| J98D17Q | 16.8 | 0.15 | K123E | 346.029 | 46.405 | 144.282 | 6.577 | 0.10816 | 2.29432 | 8 | X |
| J99J91H | 15.7 | 0.15 | K123E | 346.247 | 98.007 | 121.111 | 11.607 | 0.29279 | 2.66458 | 5 | X |
| J99TJ7S | 15.3 | 0.15 | K123E | 49.065 | 66.330 | 34.948 | 13.056 | 0.27075 | 3.14688 | 4 | X |
| J99TP9E | 15.2 | 0.15 | K123E | 75.451 | 46.087 | 23.288 | 18.806 | 0.13271 | 3.06683 | 4 | X |
| J99U32A | 15.8 | 0.15 | K123E | 1.152 | 131.977 | 37.616 | 10.822 | 0.04025 | 3.00819 | 8 | X |
| J99U54D | 16.7 | 0.15 | K123E | 38.027 | 87.243 | 44.693 | 10.186 | 0.06863 | 3.04472 | 4 | X |
| J99V71Q | 16.1 | 0.15 | K123E | 148.929 | 325.940 | 57.296 | 10.603 | 0.02933 | 3.02317 | 3 | X |
| J99W19C | 16.5 | 0.15 | K123E | 74.586 | 26.781 | 57.585 | 11.623 | 0.13488 | 3.08084 | 3 | X |
| K00H83A | 16.6 | 0.15 | K123E | 309.525 | 197.236 | 52.849 | 7.042 | 0.14719 | 2.54913 | 5 | X |
| K00K42W | 16.6 | 0.15 | K123E | 227.760 | 261.985 | 50.832 | 10.286 | 0.19319 | 2.60746 | 6 | X |
| K00R85A | 16.2 | 0.15 | K123E | 162.815 | 1.972 | 352.233 | 13.742 | 0.20613 | 2.79203 | 3 | X |
| K00R96S | 17.2 | 0.15 | K123E | 93.927 | 115.895 | 277.894 | 3.028 | 0.26608 | 2.29771 | 4 | X |
| K00X27F | 17.2 | 0.15 | K123E | 87.997 | 359.604 | 52.801 | 9.243 | 0.23542 | 2.31976 | 3 | X |
| K01A48G | 16.4 | 0.15 | K123E | 83.471 | 323.184 | 117.207 | 11.318 | 0.08065 | 3.01919 | 6 | X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K01B00M | 15.3 | 0.15 | K123E | 350.790 | 202.844 | 329.180 | 20.072 | 0.16897 | 3.08504 | 4 X |
| K01C23T | 15.0 | 0.15 | K123E | 27.830 | 198.785 | 300.205 | 10.357 | 0.06889 | 3.03761 | 7 X |
| K01D20W | 14.9 | 0.15 | K123E | 342.782 | 82.308 | 134.601 | 17.312 | 0.23615 | 3.08479 | 6 X |
| K01D23W | 15.8 | 0.15 | K123E | 16.978 | 1.763 | 140.738 | 17.165 | 0.24886 | 3.06980 | 3 X |
| K01F56Y | 14.7 | 0.15 | K123E | 320.920 | 190.802 | 28.782 | 29.087 | 0.14286 | 3.17337 | 4 X |
| K01FD1V | 15.3 | 0.15 | K123E | 351.904 | 180.001 | 1.583 | 16.079 | 0.05647 | 3.13080 | 4 X |
| K01FI0Y | 15.5 | 0.15 | K123E | 346.707 | 178.361 | 11.440 | 17.687 | 0.16372 | 3.15519 | 4 X |
| K01G03V | 15.2 | 0.15 | K123E | 334.948 | 27.543 | 181.404 | 28.283 | 0.17185 | 3.16732 | 7 X |
| K01QG4N | 16.2 | 0.15 | K123E | 175.693 | 286.387 | 65.055 | 10.751 | 0.12629 | 2.58708 | 7 X |
| K01QR7X | 16.4 | 0.15 | K123E | 200.448 | 227.411 | 109.021 | 12.490 | 0.19259 | 2.58089 | 5 X |
| K01QR8E | 16.0 | 0.15 | K123E | 182.573 | 282.730 | 68.339 | 13.619 | 0.21337 | 2.59790 | 6 X |
| K01S55G | 15.9 | 0.15 | K123E | 168.316 | 316.327 | 41.300 | 12.464 | 0.17236 | 2.64962 | 5 X |
| K01SB5O | 18.6 | 0.15 | K123E | 65.522 | 102.314 | 299.773 | 5.259 | 0.35123 | 2.19380 | 2 X |
| K01SO1N | 16.0 | 0.15 | K123E | 76.695 | 70.390 | 17.396 | 22.120 | 0.05921 | 2.67464 | 5 X |
| K01T45O | 16.7 | 0.15 | K123E | 150.457 | 349.118 | 25.475 | 12.465 | 0.19871 | 2.67768 | 3 X |
| K01TN7V | 16.7 | 0.15 | K123E | 182.612 | 299.719 | 43.776 | 14.150 | 0.13341 | 2.63488 | 5 X |
| K01U41G | 16.6 | 0.15 | K123E | 78.993 | 27.265 | 43.156 | 14.414 | 0.16982 | 2.73881 | 4 X |
| K01UM9G | 17.1 | 0.15 | K123E | 135.503 | 220.774 | 147.200 | 6.811 | 0.03135 | 2.69708 | 2 X |
| K01W43L | 16.7 | 0.15 | K123E | 209.013 | 269.367 | 60.396 | 10.054 | 0.10068 | 2.64857 | 5 X |
| K01X37O | 16.2 | 0.15 | K123E | 167.456 | 327.835 | 36.344 | 12.325 | 0.18224 | 2.68901 | 5 X |
| K01X70Y | 16.0 | 0.15 | K123E | 102.186 | 296.106 | 105.287 | 12.604 | 0.26503 | 2.76912 | 4 X |
| K01Y90Z | 17.3 | 0.15 | K123E | 19.301 | 54.960 | 89.986 | 6.250 | 0.29918 | 2.20651 | 2 X |
| K01YC2U | 16.4 | 0.15 | K123E | 85.782 | 20.292 | 56.942 | 13.573 | 0.09130 | 2.75885 | 4 X |
| K02A00W | 20.7 | 0.15 | K123E | 270.698 | 118.287 | 162.764 | 0.569 | 0.25616 | 1.06979 | 3 X |
| K02AK4S | 17.5 | 0.15 | K123E | 75.140 | 149.640 | 289.828 | 3.533 | 0.13539 | 2.19972 | 5 X |
| K02CP2R | 17.7 | 0.15 | K123E | 26.114 | 59.987 | 84.720 | 5.506 | 0.06708 | 2.19400 | 7 X |
| K02D05J | 20.0 | 0.15 | K123E | 305.538 | 295.983 | 348.092 | 6.439 | 0.56765 | 1.40045 | 4 X |
| K02E05U | 17.7 | 0.15 | K123E | 292.482 | 240.898 | 346.324 | 20.883 | 0.07278 | 1.84476 | 3 X |
| K02E38H | 16.2 | 0.15 | K123E | 75.513 | 259.142 | 175.828 | 10.905 | 0.03478 | 2.97639 | 6 X |
| K02G85T | 15.3 | 0.15 | K123E | 273.733 | 88.720 | 164.335 | 11.390 | 0.06669 | 3.01624 | 6 X |
| K02GI5Z | 17.0 | 0.15 | K123E | 348.051 | 322.775 | 208.252 | 6.827 | 0.11260 | 3.01800 | 4 X |
| K02J82V | 17.6 | 0.15 | K123E | 287.905 | 204.092 | 48.309 | 3.279 | 0.17362 | 2.27878 | 4 X |
| K02JA3B | 15.8 | 0.15 | K123E | 326.945 | 352.262 | 232.717 | 7.441 | 0.24008 | 3.01354 | 5 X |
| K02L00V | 16.6 | 0.15 | K123E | 253.211 | 224.234 | 132.234 | 29.527 | 0.60376 | 2.31639 | 4 X |
| K02N60O | 16.9 | 0.15 | K123E | 255.903 | 182.437 | 99.949 | 7.557 | 0.09730 | 2.35409 | 6 X |
| K02PD2T | 18.1 | 0.15 | K123E | 284.480 | 128.608 | 135.807 | 2.044 | 0.30360 | 2.32256 | 4 X |
| K02PI0A | 18.2 | 0.15 | K123E | 209.594 | 356.875 | 322.337 | 3.271 | 0.23177 | 2.39856 | 3 X |
| K02Q47T | 17.0 | 0.15 | K123E | 267.059 | 183.854 | 123.057 | 7.256 | 0.25771 | 2.32364 | 6 X |
| K02R27D | 17.9 | 0.15 | K123E | 36.535 | 73.106 | 355.989 | 25.652 | 0.53316 | 2.68548 | 2 X |
| K02RL6F | 16.9 | 0.15 | K123E | 93.013 | 74.016 | 359.884 | 19.305 | 0.07559 | 1.95296 | 5 X |
| K02T78T | 15.8 | 0.15 | K123E | 244.484 | 299.538 | 6.027 | 22.998 | 0.27419 | 2.35988 | 5 X |
| K02VD4N | 16.7 | 0.15 | K123E | 125.613 | 97.237 | 261.113 | 7.443 | 0.18617 | 2.57276 | 4 X |
| K02X36J | 16.4 | 0.15 | K123E | 133.671 | 319.995 | 69.815 | 10.774 | 0.06499 | 2.55610 | 5 X |
| K03A47V | 16.3 | 0.15 | K123E | 14.490 | 199.393 | 321.069 | 9.363 | 0.11089 | 2.62006 | 7 X |
| K03A68J | 16.2 | 0.15 | K123E | 108.390 | 338.461 | 66.237 | 12.054 | 0.17507 | 2.63847 | 4 X |
| K03B16R | 15.8 | 0.15 | K123E | 26.860 | 162.704 | 344.352 | 12.275 | 0.13623 | 2.67090 | 5 X |
| K03B21Z | 16.4 | 0.15 | K123E | 85.433 | 289.855 | 141.736 | 25.490 | 0.15832 | 2.65480 | 5 X |
| K03D06O | 16.4 | 0.15 | K123E | 343.747 | 34.731 | 149.069 | 11.374 | 0.24400 | 2.72661 | 4 X |
| K03F76O | 17.0 | 0.15 | K123E | 18.659 | 326.447 | 189.518 | 15.271 | 0.14354 | 2.72519 | 7 X |
| K03G33Y | 16.5 | 0.15 | K123E | 336.742 | 186.524 | 12.157 | 16.244 | 0.24754 | 2.73604 | 3 X |
| K03N12N | 16.0 | 0.15 | K123E | 253.207 | 106.927 | 149.941 | 19.653 | 0.24435 | 3.06172 | 3 X |
| K03O08D | 15.6 | 0.15 | K123E | 250.326 | 191.071 | 104.390 | 14.135 | 0.16243 | 2.97481 | 6 X |
| K03Q18O | 17.2 | 0.15 | K123E | 105.606 | 245.102 | 144.479 | 5.755 | 0.25087 | 2.34532 | 6 X |
| K03Q41P | 14.8 | 0.15 | K123E | 205.004 | 158.856 | 166.953 | 27.287 | 0.15827 | 3.16619 | 4 X |
| K03Q48S | 15.6 | 0.15 | K123E | 316.679 | 48.200 | 154.390 | 23.400 | 0.06820 | 3.16172 | 4 X |
| K03Q70U | 15.7 | 0.15 | K123E | 245.948 | 154.619 | 133.661 | 14.521 | 0.04999 | 3.12827 | 4 X |
| K03SL3U | 17.8 | 0.15 | K123E | 93.249 | 13.662 | 43.588 | 7.288 | 0.17299 | 2.34500 | 4 X |
| K03SU7X | 15.4 | 0.15 | K123E | 229.283 | 339.386 | 343.003 | 11.128 | 0.07441 | 3.11829 | 6 X |
| K03Sb9N | 18.0 | 0.15 | K123E | 344.017 | 72.563 | 119.339 | 1.451 | 0.19596 | 2.26347 | 6 X |
| K03Sd3J | 17.6 | 0.15 | K123E | 59.132 | 339.052 | 108.206 | 5.039 | 0.16761 | 2.37039 | 2 X |
| K03UR8Y | 18.0 | 0.15 | K123E | 147.123 | 61.476 | 279.377 | 3.604 | 0.16806 | 2.35432 | 3 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K03UW8J | 15.6 | 0.15 | K123E | 170.480 | 174.297 | 199.184 | 13.138 | 0.02150 | 3.12346 | 4 X |
| K03Y78C | 17.1 | 0.15 | K123E | 102.744 | 333.143 | 86.859 | 7.448 | 0.10514 | 2.41045 | 4 X |
| K04A00V | 16.8 | 0.15 | K123E | 67.804 | 318.222 | 135.748 | 12.625 | 0.12082 | 2.40591 | 5 X |
| K04B21H | 17.3 | 0.15 | K123E | 34.530 | 49.432 | 72.603 | 6.031 | 0.17269 | 2.46401 | 4 X |
| K04B36T | 17.3 | 0.15 | K123E | 335.533 | 259.942 | 312.038 | 5.637 | 0.08341 | 2.43423 | 5 X |
| K04B68O | 17.5 | 0.15 | K123E | 138.883 | 245.045 | 143.549 | 26.725 | 0.05890 | 1.90031 | 4 X |
| K04BB6S | 17.3 | 0.15 | K123E | 310.786 | 218.962 | 9.309 | 19.698 | 0.07129 | 1.90379 | 5 X |
| K04C49X | 17.2 | 0.15 | K123E | 142.514 | 245.061 | 150.324 | 22.771 | 0.09509 | 1.89097 | 3 X |
| K04C51V | 17.0 | 0.15 | K123E | 137.721 | 213.857 | 166.074 | 24.255 | 0.10134 | 1.91951 | 3 X |
| K04C93J | 17.5 | 0.15 | K123E | 64.294 | 86.323 | 349.529 | 21.118 | 0.10280 | 1.93311 | 4 X |
| K04CB0N | 17.2 | 0.15 | K123E | 311.034 | 254.098 | 341.203 | 19.194 | 0.06306 | 1.90318 | 4 X |
| K04CB0Q | 17.5 | 0.15 | K123E | 46.965 | 300.186 | 156.401 | 24.431 | 0.09665 | 1.94212 | 4 X |
| K04E00Y | 17.9 | 0.15 | K123E | 78.320 | 303.338 | 144.960 | 24.244 | 0.06904 | 1.91986 | 3 X |
| K04E06O | 15.6 | 0.15 | K123E | 179.703 | 351.875 | 356.842 | 15.474 | 0.14919 | 2.54033 | 6 X |
| K04E62L | 17.3 | 0.15 | K123E | 302.472 | 240.532 | 2.015 | 29.444 | 0.17357 | 2.54565 | 4 X |
| K04FC1K | 17.4 | 0.15 | K123E | 313.003 | 179.991 | 61.790 | 10.078 | 0.20762 | 2.54873 | 4 X |
| K04FC8Q | 16.4 | 0.15 | K123E | 322.845 | 112.474 | 106.134 | 11.146 | 0.16461 | 2.56079 | 6 X |
| K04FD6X | 15.9 | 0.15 | K123E | 268.815 | 169.831 | 115.672 | 14.571 | 0.09669 | 2.54665 | 5 X |
| K04FE3S | 15.9 | 0.15 | K123E | 299.146 | 200.747 | 41.420 | 12.545 | 0.13011 | 2.59149 | 5 X |
| K04G14M | 16.9 | 0.15 | K123E | 325.899 | 150.010 | 72.003 | 7.110 | 0.19635 | 2.56357 | 6 X |
| K04H11G | 16.1 | 0.15 | K123E | 286.379 | 217.952 | 37.188 | 15.068 | 0.06747 | 2.56557 | 5 X |
| K04H20J | 16.7 | 0.15 | K123E | 331.326 | 115.473 | 111.819 | 6.570 | 0.18727 | 2.53330 | 6 X |
| K04H52T | 16.5 | 0.15 | K123E | 267.707 | 241.493 | 46.632 | 12.861 | 0.23511 | 2.62076 | 5 X |
| K04J12L | 16.5 | 0.15 | K123E | 324.386 | 110.688 | 124.212 | 12.365 | 0.22545 | 2.56313 | 4 X |
| K04J26Z | 16.3 | 0.15 | K123E | 271.280 | 228.029 | 63.275 | 13.165 | 0.28387 | 2.63440 | 6 X |
| K04R15A | 15.7 | 0.15 | K123E | 85.140 | 90.520 | 334.437 | 9.359 | 0.08727 | 3.01275 | 6 X |
| K04R64R | 16.1 | 0.15 | K123E | 138.629 | 14.575 | 351.566 | 11.056 | 0.15073 | 3.05767 | 3 X |
| K04RK6V | 16.2 | 0.15 | K123E | 221.559 | 24.084 | 280.732 | 9.202 | 0.27168 | 2.85664 | 3 X |
| K04RL6L | 15.9 | 0.15 | K123E | 235.756 | 102.406 | 256.364 | 8.466 | 0.18829 | 2.75158 | 3 X |
| K04RW3B | 15.9 | 0.15 | K123E | 160.912 | 25.645 | 337.296 | 12.889 | 0.12430 | 3.01689 | 3 X |
| K04S60W | 15.6 | 0.15 | K123E | 199.053 | 211.936 | 120.850 | 9.137 | 0.11391 | 2.98469 | 7 X |
| K04T16H | 15.5 | 0.15 | K123E | 66.360 | 71.966 | 19.545 | 25.760 | 0.24722 | 3.20822 | 4 X |
| K04T55V | 15.7 | 0.15 | K123E | 66.639 | 249.209 | 189.916 | 4.450 | 0.13465 | 3.24137 | 6 X |
| K04T66F | 17.6 | 0.15 | K123E | 133.329 | 298.081 | 55.685 | 5.925 | 0.19247 | 2.17198 | 3 X |
| K04TN4W | 15.3 | 0.15 | K123E | 68.772 | 69.722 | 19.006 | 18.580 | 0.12038 | 3.20683 | 5 X |
| K04TN8W | 15.5 | 0.15 | K123E | 208.515 | 305.483 | 27.762 | 18.160 | 0.12664 | 2.97769 | 4 X |
| K04TT5B | 15.8 | 0.15 | K123E | 223.573 | 272.225 | 34.793 | 10.148 | 0.04490 | 3.09929 | 4 X |
| K04TW7M | 15.9 | 0.15 | K123E | 74.709 | 82.702 | 340.175 | 24.698 | 0.22319 | 3.21334 | 4 X |
| K04TZ6A | 15.5 | 0.15 | K123E | 179.363 | 269.585 | 77.099 | 11.762 | 0.11597 | 3.02081 | 5 X |
| K04V06C | 15.9 | 0.15 | K123E | 111.626 | 341.264 | 61.907 | 11.454 | 0.11644 | 3.18048 | 3 X |
| K04V13L | 15.1 | 0.15 | K123E | 109.025 | 297.594 | 100.705 | 14.851 | 0.29553 | 3.18008 | 4 X |
| K04V29X | 16.2 | 0.15 | K123E | 81.320 | 17.090 | 62.484 | 10.094 | 0.04760 | 3.16730 | 6 X |
| K05A02O | 16.8 | 0.15 | K123E | 70.180 | 138.022 | 311.311 | 6.953 | 0.11584 | 2.24749 | 4 X |
| K05A07M | 17.5 | 0.15 | K123E | 358.213 | 195.059 | 330.610 | 6.292 | 0.15584 | 2.27413 | 5 X |
| K05B16G | 17.6 | 0.15 | K123E | 35.321 | 14.156 | 85.240 | 7.288 | 0.22358 | 2.28236 | 2 S |
| K05B27S | 20.4 | 0.15 | K123E | 85.549 | 48.751 | 324.187 | 16.701 | 0.38538 | 1.11680 | 4 X |
| K05B29A | 17.4 | 0.15 | K123E | 11.960 | 130.405 | 24.889 | 5.261 | 0.16244 | 2.26942 | 6 X |
| K05E24J | 17.3 | 0.15 | K123E | 317.373 | 79.684 | 138.367 | 6.488 | 0.10122 | 2.30983 | 4 X |
| K05E72Z | 16.8 | 0.15 | K123E | 288.958 | 211.915 | 44.854 | 4.811 | 0.20355 | 2.30429 | 7 X |
| K05E82V | 17.0 | 0.15 | K123E | 330.772 | 281.140 | 284.265 | 1.500 | 0.14798 | 2.31776 | 4 X |
| K05G03H | 17.2 | 0.15 | K123E | 321.399 | 147.354 | 74.598 | 6.134 | 0.18356 | 2.34378 | 5 X |
| K05G83R | 18.4 | 0.15 | K123E | 349.417 | 194.515 | 336.912 | 2.312 | 0.11755 | 2.36436 | 2 X |
| K05GB5W | 18.4 | 0.15 | K123E | 351.533 | 109.164 | 66.988 | 2.434 | 0.11067 | 2.35142 | 4 X |
| K05GH0T | 16.7 | 0.15 | K123E | 306.413 | 167.538 | 89.543 | 7.883 | 0.20145 | 2.34363 | 6 X |
| K05J36C | 17.4 | 0.15 | K123E | 277.023 | 167.330 | 94.098 | 7.434 | 0.08916 | 2.41132 | 5 X |
| K05JD5C | 17.5 | 0.15 | K123E | 247.314 | 163.840 | 124.132 | 3.463 | 0.16858 | 2.44102 | 6 X |
| K05JD7Z | 17.4 | 0.15 | K123E | 43.920 | 281.914 | 183.065 | 9.251 | 0.09635 | 2.44995 | 5 X |
| K05L29H | 17.2 | 0.15 | K123E | 10.410 | 87.753 | 70.783 | 7.043 | 0.04758 | 2.42070 | 5 X |
| K05M48W | 16.2 | 0.15 | K123E | 220.453 | 206.470 | 115.482 | 16.004 | 0.18472 | 2.54405 | 5 X |
| K05O20L | 16.7 | 0.15 | K123E | 149.382 | 207.403 | 137.890 | 10.083 | 0.17621 | 2.74025 | 4 X |
| K05P04D | 16.4 | 0.15 | K123E | 196.509 | 268.054 | 67.158 | 12.310 | 0.21486 | 2.58377 | 4 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K05Q02U | 18.2 | 0.15 | K123E | 159.674 | 198.718 | 161.484 | 23.074 | 0.07513 | 1.89180 | 2 X |
| K05S16C | 16.6 | 0.15 | K123E | 31.013 | 307.182 | 193.457 | 14.602 | 0.14750 | 2.75200 | 4 X |
| K05S33A | 16.1 | 0.15 | K123E | 272.311 | 223.778 | 43.658 | 7.267 | 0.08339 | 2.68643 | 5 X |
| K05S36T | 17.3 | 0.15 | K123E | 93.284 | 195.650 | 184.046 | 4.717 | 0.11130 | 2.93664 | 5 X |
| K05SE9K | 17.1 | 0.15 | K123E | 55.743 | 287.731 | 135.163 | 3.013 | 0.10639 | 2.99630 | 4 X |
| K05SJ8Y | 17.3 | 0.15 | K123E | 16.686 | 138.466 | 0.932 | 4.408 | 0.03877 | 2.77655 | 4 X |
| K05T25W | 16.9 | 0.15 | K123E | 44.561 | 246.877 | 210.002 | 12.520 | 0.14309 | 2.96815 | 3 X |
| K05T43Y | 16.5 | 0.15 | K123E | 124.448 | 12.176 | 27.760 | 12.665 | 0.08757 | 2.73961 | 4 X |
| K05T77X | 16.7 | 0.15 | K123E | 87.777 | 91.223 | 283.658 | 2.036 | 0.32203 | 3.01967 | 3 X |
| K05TC6D | 17.0 | 0.15 | K123E | 111.303 | 168.347 | 187.871 | 0.531 | 0.18232 | 2.97264 | 3 X |
| K05TI3F | 17.3 | 0.15 | K123E | 280.256 | 242.264 | 0.485 | 20.215 | 0.03718 | 1.90502 | 2 X |
| K05U37T | 16.2 | 0.15 | K123E | 127.274 | 325.928 | 62.183 | 10.006 | 0.13637 | 2.88720 | 3 X |
| K05U48A | 16.8 | 0.15 | K123E | 36.025 | 50.930 | 56.067 | 8.752 | 0.26904 | 3.03452 | 5 X |
| K05U75B | 17.1 | 0.15 | K123E | 209.528 | 308.649 | 17.630 | 14.603 | 0.09077 | 2.66334 | 3 X |
| K05UK2V | 16.6 | 0.15 | K123E | 109.454 | 330.080 | 54.619 | 9.874 | 0.12373 | 2.94832 | 3 X |
| K05UM3M | 16.3 | 0.15 | K123E | 305.055 | 196.134 | 25.868 | 12.754 | 0.01348 | 2.80363 | 4 X |
| K05UN5G | 16.5 | 0.15 | K123E | 292.327 | 178.109 | 84.844 | 6.012 | 0.06886 | 2.72264 | 6 X |
| K05Uf4K | 17.9 | 0.15 | K123E | 58.670 | 350.839 | 80.048 | 2.538 | 0.13834 | 3.00691 | 4 X |
| K05Un2C | 16.4 | 0.15 | K123E | 198.973 | 215.268 | 128.131 | 14.899 | 0.18901 | 2.70308 | 7 X |
| K05Un5D | 16.1 | 0.15 | K123E | 157.126 | 312.531 | 51.825 | 14.423 | 0.20885 | 2.73359 | 4 X |
| K05V73Y | 16.2 | 0.15 | K123E | 262.670 | 203.914 | 79.898 | 12.343 | 0.11070 | 2.78837 | 3 X |
| K05VC7P | 17.3 | 0.15 | K123E | 251.146 | 147.744 | 134.030 | 3.286 | 0.13870 | 2.65683 | 4 X |
| K05W01K | 16.2 | 0.15 | K123E | 44.291 | 88.845 | 0.840 | 24.884 | 0.33682 | 3.11583 | 4 X |
| K05W10G | 15.9 | 0.15 | K123E | 85.383 | 331.100 | 63.209 | 14.100 | 0.20199 | 3.04683 | 3 X |
| K05W95H | 16.4 | 0.15 | K123E | 118.145 | 276.172 | 100.154 | 4.301 | 0.12245 | 3.02279 | 3 X |
| K05WE8H | 16.2 | 0.15 | K123E | 208.476 | 237.991 | 106.581 | 7.040 | 0.06064 | 2.71113 | 5 X |
| K05WF3T | 16.0 | 0.15 | K123E | 99.977 | 331.652 | 87.137 | 10.992 | 0.08773 | 2.87661 | 4 X |
| K05WH8H | 16.6 | 0.15 | K123E | 45.204 | 35.815 | 87.878 | 11.485 | 0.09050 | 3.00916 | 3 X |
| K05WK3A | 15.8 | 0.15 | K123E | 66.087 | 16.668 | 77.428 | 7.159 | 0.07849 | 3.03332 | 4 X |
| K05WK3V | 15.4 | 0.15 | K123E | 41.223 | 76.703 | 33.772 | 22.073 | 0.23214 | 3.16299 | 3 X |
| K05X18Y | 16.3 | 0.15 | K123E | 28.484 | 3.312 | 124.550 | 3.798 | 0.04420 | 3.05565 | 5 X |
| K05X73V | 15.5 | 0.15 | K123E | 244.476 | 221.542 | 69.428 | 10.632 | 0.01356 | 2.96753 | 6 X |
| K05X90P | 16.3 | 0.15 | K123E | 78.283 | 332.708 | 69.713 | 6.166 | 0.26434 | 3.13848 | 4 X |
| K05Y03W | 15.1 | 0.15 | K123E | 8.624 | 66.368 | 116.022 | 22.504 | 0.53852 | 3.11596 | 3 X |
| K05Y14N | 15.8 | 0.15 | K123E | 72.736 | 331.824 | 114.432 | 9.662 | 0.09503 | 3.10110 | 5 X |
| K05Y37L | 15.6 | 0.15 | K123E | 19.838 | 190.794 | 288.990 | 15.472 | 0.14676 | 3.09727 | 4 X |
| K05Y38J | 14.6 | 0.15 | K123E | 348.910 | 216.192 | 307.326 | 33.418 | 0.19435 | 3.20045 | 2 X |
| K05Y41V | 15.9 | 0.15 | K123E | 26.636 | 35.408 | 107.173 | 10.620 | 0.04738 | 3.08087 | 3 X |
| K05Y61S | 16.7 | 0.15 | K123E | 42.963 | 33.869 | 95.702 | 10.789 | 0.04824 | 3.01713 | 3 X |
| K05Y69C | 16.1 | 0.15 | K123E | 54.007 | 149.329 | 309.098 | 4.940 | 0.11482 | 3.10050 | 3 X |
| K05Y86M | 16.1 | 0.15 | K123E | 87.685 | 334.727 | 104.682 | 12.698 | 0.04471 | 3.03056 | 4 X |
| K05YA8R | 16.0 | 0.15 | K123E | 112.525 | 297.347 | 116.803 | 11.865 | 0.02810 | 3.03852 | 5 X |
| K05YE0F | 16.0 | 0.15 | K123E | 184.582 | 246.244 | 99.728 | 11.495 | 0.13058 | 2.98058 | 5 X |
| K05YE4S | 15.4 | 0.15 | K123E | 341.647 | 78.300 | 112.543 | 11.725 | 0.04539 | 3.11686 | 5 X |
| K05YF0P | 16.4 | 0.15 | K123E | 28.229 | 161.374 | 317.622 | 8.390 | 0.06198 | 3.17112 | 2 X |
| K05YJ1H | 15.9 | 0.15 | K123E | 349.322 | 234.836 | 312.848 | 6.868 | 0.12572 | 3.12739 | 7 X |
| K05YK5H | 15.9 | 0.15 | K123E | 60.360 | 341.552 | 122.478 | 11.174 | 0.06471 | 3.10191 | 4 X |
| K05YK5K | 15.4 | 0.15 | K123E | 348.752 | 65.872 | 122.453 | 10.873 | 0.06421 | 3.08090 | 7 X |
| K05YL4H | 15.3 | 0.15 | K123E | 347.186 | 192.567 | 352.174 | 11.550 | 0.06517 | 3.05328 | 6 X |
| K06A04C | 15.9 | 0.15 | K123E | 78.285 | 26.568 | 52.865 | 10.229 | 0.12632 | 3.04621 | 4 X |
| K06A08L | 18.4 | 0.15 | K123E | 13.151 | 65.695 | 312.190 | 35.888 | 0.88719 | 3.33826 | 2 X |
| K06A30M | 15.2 | 0.15 | K123E | 32.888 | 350.412 | 142.112 | 16.152 | 0.21094 | 3.17957 | 7 X |
| K06A40Z | 15.8 | 0.15 | K123E | 179.787 | 32.358 | 302.063 | 27.360 | 0.18741 | 3.09507 | 3 X |
| K06A66L | 16.0 | 0.15 | K123E | 184.977 | 210.114 | 119.174 | 4.061 | 0.20814 | 3.06919 | 4 X |
| K06A81D | 15.5 | 0.15 | K123E | 4.088 | 205.644 | 324.013 | 12.459 | 0.09324 | 3.12983 | 5 X |
| K06A83S | 15.8 | 0.15 | K123E | 68.268 | 13.173 | 73.558 | 11.507 | 0.11811 | 3.11206 | 4 X |
| K06A90E | 15.9 | 0.15 | K123E | 53.484 | 48.599 | 80.401 | 6.266 | 0.05192 | 2.84504 | 3 X |
| K06B05X | 15.7 | 0.15 | K123E | 59.528 | 60.809 | 21.677 | 21.763 | 0.26991 | 3.17055 | 5 X |
| K06B06V | 15.4 | 0.15 | K123E | 347.038 | 63.692 | 131.815 | 17.202 | 0.17795 | 3.15324 | 4 X |
| K06B21S | 15.9 | 0.15 | K123E | 144.883 | 244.330 | 128.408 | 11.634 | 0.13393 | 3.11058 | 4 X |
| K06B50U | 15.6 | 0.15 | K123E | 309.023 | 122.348 | 121.028 | 16.638 | 0.18154 | 3.11543 | 7 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K06B61Y | 15.7 | 0.15 | K123E | 42.609 | 124.553 | 338.731 | 10.147 | 0.19151 | 3.19335 | 4 X |
| K06B63G | 15.4 | 0.15 | K123E | 24.713 | 62.603 | 82.401 | 10.395 | 0.03297 | 3.11600 | 5 X |
| K06B76T | 16.3 | 0.15 | K123E | 268.031 | 145.540 | 124.435 | 17.452 | 0.08457 | 3.14607 | 3 X |
| K06BF1S | 15.0 | 0.15 | K123E | 74.083 | 111.231 | 332.176 | 10.018 | 0.03888 | 3.21189 | 3 X |
| K06BF9E | 15.5 | 0.15 | K123E | 51.016 | 337.999 | 151.995 | 12.374 | 0.06807 | 3.12947 | 5 X |
| K06BN9V | 15.7 | 0.15 | K123E | 267.596 | 142.890 | 125.953 | 10.501 | 0.06983 | 3.17170 | 5 X |
| K06BR9N | 15.7 | 0.15 | K123E | 306.753 | 66.045 | 151.244 | 10.628 | 0.03940 | 3.24748 | 4 X |
| K06C23V | 16.2 | 0.15 | K123E | 323.290 | 84.788 | 127.632 | 2.633 | 0.12292 | 3.16869 | 7 X |
| K06C24O | 15.6 | 0.15 | K123E | 299.427 | 286.424 | 318.857 | 12.259 | 0.18781 | 3.16490 | 6 X |
| K06C61S | 15.5 | 0.15 | K123E | 8.518 | 37.687 | 126.585 | 15.260 | 0.15195 | 3.21032 | 5 X |
| K06C68C | 15.7 | 0.15 | K123E | 124.272 | 259.115 | 143.561 | 24.829 | 0.08497 | 3.12523 | 3 X |
| K06D72G | 15.6 | 0.15 | K123E | 20.442 | 145.870 | 356.425 | 14.110 | 0.12891 | 3.22543 | 5 X |
| K06K30X | 18.4 | 0.15 | K123E | 147.387 | 269.395 | 64.052 | 2.469 | 0.11519 | 2.32188 | 5 X |
| K06K81N | 17.4 | 0.15 | K123E | 291.573 | 132.140 | 91.116 | 7.136 | 0.14867 | 2.21147 | 4 X |
| K06R93B | 17.2 | 0.15 | K123E | 56.113 | 65.521 | 3.876 | 6.359 | 0.24713 | 2.66310 | 4 X |
| K06S26Q | 17.6 | 0.15 | K123E | 211.181 | 299.000 | 6.734 | 6.842 | 0.19559 | 2.38087 | 4 X |
| K06S74O | 17.1 | 0.15 | K123E | 303.608 | 184.581 | 48.051 | 6.562 | 0.05762 | 2.43322 | 5 X |
| K06SG0T | 16.9 | 0.15 | K123E | 158.633 | 338.026 | 30.875 | 16.353 | 0.04855 | 2.46444 | 4 X |
| K06SL6Y | 17.4 | 0.15 | K123E | 40.749 | 73.640 | 30.287 | 11.874 | 0.27857 | 2.66638 | 4 X |
| K06Sa0A | 16.6 | 0.15 | K123E | 233.637 | 205.357 | 127.623 | 7.863 | 0.21723 | 2.31523 | 6 X |
| K06T72P | 16.8 | 0.15 | K123E | 262.975 | 229.208 | 73.636 | 8.327 | 0.15870 | 2.30559 | 5 X |
| K06T74P | 16.9 | 0.15 | K123E | 32.806 | 154.738 | 291.919 | 9.776 | 0.34614 | 2.78429 | 4 X |
| K06T87F | 17.6 | 0.15 | K123E | 133.104 | 328.541 | 26.393 | 5.050 | 0.16953 | 2.61306 | 3 X |
| K06T94L | 17.0 | 0.15 | K123E | 274.009 | 131.310 | 132.538 | 2.716 | 0.14359 | 2.44586 | 5 X |
| K06TC5Z | 17.5 | 0.15 | K123E | 20.133 | 63.875 | 50.338 | 9.960 | 0.20265 | 2.71420 | 3 X |
| K06U51W | 17.2 | 0.15 | K123E | 291.529 | 224.489 | 24.433 | 14.992 | 0.06830 | 2.43678 | 3 X |
| K06U93G | 17.7 | 0.15 | K123E | 60.315 | 256.614 | 179.675 | 3.138 | 0.19204 | 2.65681 | 4 X |
| K06UM9A | 16.0 | 0.15 | K123E | 131.037 | 315.054 | 61.627 | 14.667 | 0.11498 | 2.59711 | 3 X |
| K06UN3O | 17.7 | 0.15 | K123E | 330.304 | 154.371 | 52.541 | 6.911 | 0.04883 | 2.45362 | 5 X |
| K06UP8G | 17.5 | 0.15 | K123E | 314.810 | 207.468 | 16.108 | 2.836 | 0.13151 | 2.43188 | 5 X |
| K06US2R | 16.9 | 0.15 | K123E | 354.284 | 118.508 | 34.053 | 17.749 | 0.18831 | 2.65702 | 3 X |
| K06V30N | 16.5 | 0.15 | K123E | 225.786 | 269.379 | 51.430 | 12.042 | 0.16113 | 2.44056 | 3 X |
| K06V45H | 17.2 | 0.15 | K123E | 109.360 | 353.291 | 50.400 | 8.530 | 0.12151 | 2.54705 | 4 X |
| K06VB0D | 17.3 | 0.15 | K123E | 119.287 | 48.060 | 332.316 | 4.257 | 0.18829 | 2.62255 | 3 X |
| K06VD4U | 16.1 | 0.15 | K123E | 122.742 | 344.524 | 47.893 | 15.121 | 0.21321 | 2.58703 | 4 X |
| K06VF5G | 17.2 | 0.15 | K123E | 82.497 | 331.541 | 93.924 | 9.427 | 0.18131 | 2.59879 | 4 X |
| K06WA0C | 16.7 | 0.15 | K123E | 40.684 | 307.118 | 157.048 | 5.051 | 0.18492 | 2.66573 | 3 X |
| K06WF1C | 17.3 | 0.15 | K123E | 109.719 | 126.528 | 241.457 | 4.610 | 0.19711 | 2.65222 | 4 X |
| K06WF5J | 16.8 | 0.15 | K123E | 306.122 | 171.253 | 60.304 | 9.827 | 0.03863 | 2.52329 | 4 X |
| K06WJ0P | 16.8 | 0.15 | K123E | 32.707 | 51.529 | 69.280 | 9.309 | 0.26369 | 2.75375 | 3 X |
| K06WJ8E | 17.1 | 0.15 | K123E | 148.410 | 289.280 | 95.626 | 7.320 | 0.02679 | 2.68404 | 5 X |
| K06X34N | 17.7 | 0.15 | K123E | 40.684 | 45.834 | 73.603 | 9.433 | 0.10899 | 2.70991 | 5 X |
| K06X39J | 17.3 | 0.15 | K123E | 67.745 | 350.260 | 104.013 | 10.236 | 0.13199 | 2.71629 | 3 X |
| K06X46N | 16.0 | 0.15 | K123E | 80.909 | 334.376 | 96.604 | 10.287 | 0.12703 | 2.67326 | 4 X |
| K06X63T | 16.5 | 0.15 | K123E | 127.636 | 278.376 | 117.728 | 13.905 | 0.15328 | 2.57987 | 5 X |
| K06X65J | 16.2 | 0.15 | K123E | 211.947 | 134.149 | 206.344 | 5.593 | 0.13541 | 2.47347 | 6 X |
| K06Y10A | 16.5 | 0.15 | K123E | 87.230 | 76.344 | 310.607 | 1.039 | 0.07019 | 2.88047 | 3 X |
| K06Y20F | 17.7 | 0.15 | K123E | 32.572 | 49.993 | 83.575 | 8.583 | 0.13481 | 2.62460 | 4 X |
| K07A09W | 15.9 | 0.15 | K123E | 330.272 | 214.243 | 343.166 | 8.867 | 0.08751 | 2.77454 | 4 X |
| K07B08P | 15.8 | 0.15 | K123E | 41.352 | 9.524 | 114.789 | 13.745 | 0.11954 | 2.80126 | 5 X |
| K07B19W | 17.0 | 0.15 | K123E | 43.032 | 15.213 | 101.341 | 10.274 | 0.12966 | 2.75743 | 4 X |
| K07B20G | 16.4 | 0.15 | K123E | 352.749 | 92.889 | 91.666 | 8.587 | 0.16393 | 2.77482 | 5 X |
| K07B34O | 16.9 | 0.15 | K123E | 10.466 | 34.448 | 122.138 | 9.948 | 0.07326 | 2.76123 | 4 X |
| K07B57M | 16.2 | 0.15 | K123E | 289.202 | 154.003 | 97.629 | 7.891 | 0.04097 | 2.70946 | 5 X |
| K07B68Y | 16.5 | 0.15 | K123E | 306.265 | 301.734 | 314.705 | 4.884 | 0.18076 | 2.78764 | 5 X |
| K07B73B | 17.0 | 0.15 | K123E | 65.104 | 132.838 | 303.371 | 21.667 | 0.09573 | 1.87221 | 3 X |
| K07B76G | 16.6 | 0.15 | K123E | 68.755 | 46.734 | 40.541 | 8.994 | 0.16161 | 2.77354 | 6 X |
| K07C04N | 19.4 | 0.15 | K123E | 24.088 | 171.978 | 319.844 | 20.419 | 0.03990 | 1.83412 | 2 X |
| K07C62W | 16.4 | 0.15 | K123E | 352.967 | 45.555 | 134.946 | 16.784 | 0.17630 | 2.86024 | 4 X |
| K07C62Y | 16.1 | 0.15 | K123E | 57.087 | 145.417 | 334.692 | 9.798 | 0.05921 | 2.77663 | 4 X |
| K07D00K | 19.3 | 0.15 | K123E | 311.165 | 354.899 | 290.959 | 5.176 | 0.55038 | 1.39620 | 5 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K07D05A | 16.5 | 0.15 | K123E | 285.149 | 147.830 | 113.398 | 13.760 | 0.12869 | 2.69757 | 4 X |
| K07D07Y | 17.9 | 0.15 | K123E | 334.784 | 24.742 | 157.598 | 22.538 | 0.07522 | 1.86796 | 4 X |
| K07E30H | 16.3 | 0.15 | K123E | 18.338 | 339.407 | 157.137 | 8.003 | 0.09640 | 2.99621 | 4 X |
| K07E63R | 16.6 | 0.15 | K123E | 235.371 | 231.302 | 50.592 | 1.378 | 0.15387 | 3.10247 | 4 X |
| K07E71O | 18.0 | 0.15 | K123E | 69.134 | 75.422 | 4.092 | 20.236 | 0.11046 | 1.87720 | 3 X |
| K07ED6D | 16.4 | 0.15 | K123E | 58.334 | 272.252 | 176.534 | 10.649 | 0.07410 | 3.04233 | 5 X |
| K07EE3P | 16.3 | 0.15 | K123E | 311.766 | 220.704 | 351.629 | 16.835 | 0.16053 | 3.08406 | 3 X |
| K07EG0P | 16.5 | 0.15 | K123E | 326.989 | 239.066 | 327.859 | 4.099 | 0.17119 | 3.04034 | 5 X |
| K07EK0J | 15.9 | 0.15 | K123E | 103.917 | 16.432 | 42.500 | 12.024 | 0.05387 | 2.97947 | 4 X |
| K07EL5L | 15.2 | 0.15 | K123E | 134.785 | 260.893 | 128.641 | 11.739 | 0.07823 | 2.97001 | 9 X |
| K07EL9Y | 15.4 | 0.15 | K123E | 52.543 | 63.969 | 28.171 | 16.394 | 0.21708 | 3.15666 | 4 X |
| K07F02K | 15.9 | 0.15 | K123E | 338.287 | 94.280 | 103.307 | 8.860 | 0.12433 | 2.92898 | 5 X |
| K07F46K | 16.2 | 0.15 | K123E | 30.595 | 100.574 | 30.153 | 15.974 | 0.13037 | 3.07616 | 4 X |
| K07F50J | 15.4 | 0.15 | K123E | 81.718 | 336.148 | 108.448 | 12.112 | 0.05356 | 3.14788 | 5 X |
| K07G25H | 16.4 | 0.15 | K123E | 334.703 | 70.141 | 113.039 | 16.630 | 0.29505 | 3.08294 | 3 X |
| K07G39W | 17.4 | 0.15 | K123E | 12.650 | 111.414 | 39.542 | 14.596 | 0.22053 | 3.06363 | 4 X |
| K07G39Z | 15.8 | 0.15 | K123E | 355.234 | 333.949 | 205.687 | 10.136 | 0.08298 | 3.10656 | 5 X |
| K07G51Z | 16.2 | 0.15 | K123E | 315.372 | 155.747 | 57.637 | 11.799 | 0.03077 | 3.13052 | 4 X |
| K07G65H | 16.5 | 0.15 | K123E | 306.309 | 193.172 | 33.703 | 14.124 | 0.06076 | 3.17298 | 3 X |
| K07G68Y | 16.4 | 0.15 | K123E | 270.843 | 61.062 | 188.605 | 10.084 | 0.05062 | 3.09646 | 4 X |
| K07H01H | 16.0 | 0.15 | K123E | 280.873 | 253.504 | 16.311 | 7.627 | 0.17001 | 3.05204 | 4 X |
| K07H01O | 15.1 | 0.15 | K123E | 17.447 | 121.971 | 32.051 | 11.113 | 0.07180 | 3.05632 | 8 X |
| K07H04U | 16.1 | 0.15 | K123E | 294.341 | 119.022 | 122.835 | 12.258 | 0.06646 | 3.02749 | 3 X |
| K07H12V | 15.9 | 0.15 | K123E | 22.279 | 105.733 | 37.481 | 9.520 | 0.08570 | 3.06182 | 4 X |
| K07H18U | 15.5 | 0.15 | K123E | 319.489 | 62.319 | 173.580 | 17.167 | 0.21310 | 3.09617 | 4 X |
| K07H48L | 15.3 | 0.15 | K123E | 186.186 | 294.913 | 52.484 | 11.011 | 0.06178 | 3.19495 | 4 X |
| K07H71D | 15.6 | 0.15 | K123E | 241.572 | 247.828 | 48.706 | 16.306 | 0.08412 | 3.20815 | 5 X |
| K07H97U | 15.7 | 0.15 | K123E | 349.559 | 121.036 | 80.790 | 8.056 | 0.09906 | 3.10660 | 5 X |
| K07J03G | 15.5 | 0.15 | K123E | 258.726 | 214.373 | 59.971 | 11.449 | 0.03281 | 3.13793 | 5 X |
| K07J36Z | 15.6 | 0.15 | K123E | 299.840 | 142.434 | 98.109 | 9.994 | 0.04523 | 3.17212 | 5 X |
| K07L02P | 16.7 | 0.15 | K123E | 312.876 | 112.961 | 130.484 | 11.606 | 0.24608 | 3.09788 | 3 X |
| K07L07Z | 16.0 | 0.15 | K123E | 291.230 | 161.442 | 98.070 | 8.523 | 0.12396 | 3.17140 | 6 X |
| K07L32D | 16.3 | 0.15 | K123E | 323.369 | 160.585 | 63.206 | 12.983 | 0.15788 | 3.14299 | 3 X |
| K07M06W | 16.8 | 0.15 | K123E | 303.771 | 103.137 | 137.253 | 16.658 | 0.24299 | 3.15991 | 2 X |
| K07R44R | 18.0 | 0.15 | K123E | 213.686 | 340.297 | 304.217 | 3.526 | 0.14837 | 2.14676 | 4 X |
| K07T16A | 18.6 | 0.15 | K123E | 67.390 | 224.941 | 186.799 | 1.867 | 0.18578 | 2.30807 | 2 X |
| K07TA3D | 18.2 | 0.15 | K123E | 55.261 | 323.526 | 104.258 | 2.129 | 0.16687 | 2.36594 | 4 X |
| K07U11T | 16.9 | 0.15 | K123E | 93.821 | 358.792 | 62.791 | 7.400 | 0.13626 | 2.23910 | 5 X |
| K07U60E | 17.7 | 0.15 | K123E | 167.206 | 311.801 | 39.985 | 5.276 | 0.11121 | 2.19969 | 5 X |
| K07UC8Z | 18.2 | 0.15 | K123E | 57.431 | 1.922 | 81.237 | 2.505 | 0.16032 | 2.34560 | 2 X |
| K07V12O | 18.1 | 0.15 | K123E | 112.438 | 54.711 | 323.756 | 4.287 | 0.16984 | 2.28853 | 2 X |
| K07V90V | 17.8 | 0.15 | K123E | 71.000 | 298.402 | 128.088 | 3.896 | 0.11773 | 2.32785 | 2 X |
| K07VC6U | 17.1 | 0.15 | K123E | 47.578 | 65.141 | 39.495 | 11.009 | 0.16784 | 2.31468 | 4 X |
| K07VF0X | 17.6 | 0.15 | K123E | 334.603 | 131.022 | 72.005 | 7.677 | 0.08788 | 2.22475 | 8 X |
| K07VF1O | 15.9 | 0.15 | K123E | 43.305 | 13.623 | 104.423 | 17.864 | 0.14751 | 2.53131 | 3 X |
| K07VG7C | 18.5 | 0.15 | K123E | 357.393 | 264.944 | 235.018 | 1.717 | 0.19485 | 2.42064 | 2 X |
| K07VM8N | 16.7 | 0.15 | K123E | 335.259 | 123.803 | 84.351 | 9.138 | 0.15800 | 2.37952 | 4 X |
| K07VQ8Y | 17.2 | 0.15 | K123E | 111.913 | 222.222 | 198.288 | 6.560 | 0.08082 | 2.22471 | 4 X |
| K07VV7E | 16.9 | 0.15 | K123E | 355.675 | 95.438 | 96.769 | 7.515 | 0.04884 | 2.33621 | 3 X |
| K07W61U | 17.7 | 0.15 | K123E | 135.436 | 62.383 | 300.023 | 5.692 | 0.14634 | 2.28387 | 2 X |
| K07X22S | 17.4 | 0.15 | K123E | 103.090 | 328.293 | 88.187 | 6.503 | 0.14641 | 2.31069 | 5 X |
| K07X49D | 17.1 | 0.15 | K123E | 33.589 | 181.862 | 281.024 | 8.807 | 0.15397 | 2.45029 | 2 X |
| K07X57U | 17.6 | 0.15 | K123E | 32.019 | 240.333 | 264.194 | 1.757 | 0.10421 | 2.41247 | 5 X |
| K08A19L | 16.5 | 0.15 | K123E | 349.196 | 75.594 | 113.583 | 7.340 | 0.11534 | 2.42070 | 5 X |
| K08A65V | 17.4 | 0.15 | K123E | 127.869 | 255.746 | 121.970 | 6.847 | 0.24229 | 2.39152 | 3 X |
| K08B39O | 17.3 | 0.15 | K123E | 107.913 | 321.682 | 85.712 | 7.206 | 0.13857 | 2.39143 | 5 X |
| K08B44X | 17.2 | 0.15 | K123E | 45.589 | 60.518 | 55.514 | 7.685 | 0.06483 | 2.42729 | 5 X |
| K08C42E | 17.2 | 0.15 | K123E | 70.692 | 253.458 | 170.870 | 13.492 | 0.15058 | 2.56970 | 5 X |
| K08CC4K | 17.8 | 0.15 | K123E | 323.586 | 273.689 | 258.526 | 1.700 | 0.01997 | 2.60567 | 4 X |
| K08CD8V | 16.8 | 0.15 | K123E | 216.638 | 310.542 | 4.448 | 3.791 | 0.11855 | 2.52200 | 3 X |
| K08CE2B | 17.4 | 0.15 | K123E | 304.744 | 59.110 | 167.294 | 12.763 | 0.14343 | 2.57464 | 5 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K08CF2J | 17.7 | 0.15 | K123E | 54.944 | 243.600 | 256.638 | 2.204 | 0.12880 | 2.36798 | 4 X |
| K08CK1W | 16.4 | 0.15 | K123E | 240.144 | 300.965 | 10.371 | 30.931 | 0.25081 | 2.63923 | 3 X |
| K08CK8W | 17.1 | 0.15 | K123E | 12.818 | 345.647 | 163.390 | 12.686 | 0.11861 | 2.59854 | 5 X |
| K08CK9J | 16.3 | 0.15 | K123E | 54.155 | 333.589 | 103.820 | 14.574 | 0.13526 | 2.57103 | 2 S |
| K08CL5L | 16.9 | 0.15 | K123E | 316.773 | 163.185 | 86.213 | 5.807 | 0.19790 | 2.42854 | 5 X |
| K08D83G | 17.3 | 0.15 | K123E | 37.936 | 163.888 | 327.275 | 4.028 | 0.16248 | 2.54973 | 3 X |
| K08E24O | 17.1 | 0.15 | K123E | 45.064 | 101.209 | 19.021 | 15.689 | 0.02385 | 2.54716 | 4 X |
| K08E57P | 17.9 | 0.15 | K123E | 328.506 | 113.779 | 89.669 | 4.805 | 0.12920 | 2.59712 | 2 X |
| K08EB3A | 17.7 | 0.15 | K123E | 18.975 | 155.416 | 341.174 | 8.458 | 0.19162 | 2.57713 | 2 X |
| K08EB3J | 17.2 | 0.15 | K123E | 26.999 | 162.821 | 315.368 | 9.940 | 0.21332 | 2.55592 | 4 X |
| K08EF0T | 17.2 | 0.15 | K123E | 55.204 | 68.209 | 26.184 | 14.677 | 0.16440 | 2.65262 | 4 X |
| K08EF1T | 17.6 | 0.15 | K123E | 23.628 | 15.168 | 116.470 | 2.711 | 0.08359 | 2.64861 | 3 X |
| K08EF2L | 17.1 | 0.15 | K123E | 311.510 | 157.285 | 70.833 | 7.495 | 0.11458 | 2.57312 | 4 X |
| K08EF8Q | 17.4 | 0.15 | K123E | 293.239 | 63.398 | 151.842 | 5.162 | 0.10724 | 2.77525 | 2 X |
| K08EG4Z | 16.7 | 0.15 | K123E | 96.970 | 218.082 | 157.528 | 2.298 | 0.08464 | 2.88822 | 4 X |
| K08EG7E | 16.2 | 0.15 | K123E | 274.802 | 139.862 | 139.219 | 13.557 | 0.15974 | 2.67229 | 6 X |
| K08EG7H | 17.5 | 0.15 | K123E | 27.928 | 326.430 | 139.531 | 13.831 | 0.23884 | 2.59135 | 3 X |
| K08F49L | 16.7 | 0.15 | K123E | 106.967 | 25.088 | 18.938 | 11.512 | 0.18288 | 2.64768 | 4 X |
| K08F74X | 16.7 | 0.15 | K123E | 176.675 | 231.518 | 97.880 | 5.773 | 0.05297 | 2.78194 | 4 X |
| K08FA4G | 16.1 | 0.15 | K123E | 307.322 | 61.165 | 190.395 | 13.979 | 0.15183 | 2.61910 | 4 X |
| K08FD0A | 16.3 | 0.15 | K123E | 334.975 | 174.344 | 28.421 | 12.516 | 0.13215 | 2.62004 | 4 X |
| K08FD7F | 16.2 | 0.15 | K123E | 39.616 | 25.133 | 114.382 | 5.891 | 0.10149 | 2.57861 | 4 X |
| K08G00U | 16.8 | 0.15 | K123E | 20.581 | 48.814 | 92.991 | 13.281 | 0.24477 | 2.55757 | 4 X |
| K08G04C | 16.5 | 0.15 | K123E | 313.397 | 255.082 | 345.543 | 10.946 | 0.26716 | 2.61280 | 4 X |
| K08G13Z | 16.8 | 0.15 | K123E | 103.745 | 26.279 | 19.559 | 15.395 | 0.15892 | 2.64358 | 3 X |
| K08G32O | 17.2 | 0.15 | K123E | 6.109 | 85.644 | 77.127 | 7.217 | 0.04540 | 2.66387 | 3 X |
| K08G69U | 16.1 | 0.15 | K123E | 245.016 | 202.680 | 93.106 | 10.261 | 0.06204 | 2.73506 | 6 X |
| K08G74B | 16.3 | 0.15 | K123E | 218.319 | 250.202 | 75.012 | 9.774 | 0.13789 | 2.69147 | 5 X |
| K08G81F | 16.2 | 0.15 | K123E | 303.960 | 179.825 | 66.537 | 9.342 | 0.16416 | 2.68334 | 6 X |
| K08G83A | 17.1 | 0.15 | K123E | 28.072 | 299.935 | 171.257 | 7.939 | 0.25632 | 2.67041 | 5 X |
| K08G96P | 16.7 | 0.15 | K123E | 299.867 | 218.866 | 37.495 | 13.896 | 0.24485 | 2.63746 | 5 X |
| K08GA3C | 16.5 | 0.15 | K123E | 232.692 | 246.502 | 67.375 | 9.500 | 0.15592 | 2.74807 | 5 X |
| K08GA9P | 16.9 | 0.15 | K123E | 319.341 | 145.467 | 82.520 | 6.812 | 0.13795 | 2.69558 | 6 X |
| K08GC0Z | 16.8 | 0.15 | K123E | 15.052 | 328.818 | 168.945 | 16.625 | 0.09689 | 2.66504 | 5 X |
| K08GC2Q | 17.8 | 0.15 | K123E | 346.524 | 351.371 | 194.449 | 11.649 | 0.12593 | 2.63398 | 5 X |
| K08GD0D | 16.2 | 0.15 | K123E | 355.646 | 210.958 | 330.628 | 13.071 | 0.12341 | 2.58391 | 5 X |
| K08H12B | 16.4 | 0.15 | K123E | 268.399 | 256.514 | 31.685 | 17.823 | 0.22948 | 2.67309 | 5 X |
| K08H28U | 16.8 | 0.15 | K123E | 116.959 | 269.123 | 106.126 | 3.206 | 0.05098 | 2.87384 | 2 X |
| K08H57V | 16.8 | 0.15 | K123E | 199.445 | 228.671 | 109.002 | 12.988 | 0.02966 | 2.72132 | 5 X |
| K08H62C | 16.9 | 0.15 | K123E | 9.954 | 57.640 | 117.028 | 5.519 | 0.11794 | 2.64887 | 4 X |
| K08J15K | 16.5 | 0.15 | K123E | 105.501 | 29.635 | 19.079 | 15.369 | 0.10582 | 2.71303 | 4 X |
| K08K26R | 17.4 | 0.15 | K123E | 317.124 | 62.280 | 150.257 | 8.930 | 0.14388 | 2.79477 | 4 X |
| K08K41T | 16.9 | 0.15 | K123E | 327.639 | 101.015 | 114.459 | 14.536 | 0.11354 | 2.69988 | 4 X |
| K08P01F | 22.2 | 0.15 | K123E | 56.705 | 284.101 | 129.657 | 2.755 | 0.49467 | 1.36004 | 2 X |
| K08R71S | 15.4 | 0.15 | K123E | 314.652 | 78.003 | 173.319 | 26.390 | 0.14404 | 3.16085 | 5 X |
| K08R82A | 14.2 | 0.15 | K123E | 70.549 | 182.622 | 196.131 | 7.312 | 0.01916 | 5.22190 | 3 X |
| K08RE1A | 15.6 | 0.15 | K123E | 284.428 | 262.784 | 7.889 | 25.359 | 0.24174 | 3.11025 | 4 X |
| K09B14D | 16.8 | 0.15 | K123E | 94.550 | 301.924 | 128.853 | 24.823 | 0.09462 | 1.99184 | 3 X |
| K09E30U | 17.1 | 0.15 | K123E | 264.326 | 228.568 | 51.117 | 7.392 | 0.08277 | 2.19480 | 4 X |
| K09E31D | 18.8 | 0.15 | K123E | 322.495 | 236.365 | 316.442 | 2.492 | 0.07282 | 2.17192 | 2 X |
| K09H08M | 18.3 | 0.15 | K123E | 327.785 | 117.172 | 92.879 | 5.929 | 0.10105 | 2.17801 | 5 X |
| K09HA6N | 18.4 | 0.15 | K123E | 300.283 | 334.164 | 256.796 | 3.222 | 0.25588 | 2.25323 | 4 X |
| K09O00P | 16.2 | 0.15 | K123E | 218.022 | 352.417 | 310.683 | 13.372 | 0.24362 | 2.69068 | 3 X |
| K09O02C | 17.1 | 0.15 | K123E | 282.462 | 21.193 | 263.431 | 3.646 | 0.20911 | 2.35341 | 5 X |
| K09Q14Z | 16.1 | 0.15 | K123E | 170.679 | 5.902 | 344.727 | 9.290 | 0.04618 | 3.10586 | 3 X |
| K09Q19A | 15.5 | 0.15 | K123E | 111.688 | 249.553 | 156.611 | 22.080 | 0.04247 | 3.12500 | 6 X |
| K09R17P | 15.2 | 0.15 | K123E | 160.369 | 352.625 | 16.549 | 19.574 | 0.13266 | 3.19083 | 4 X |
| K09R51Z | 15.7 | 0.15 | K123E | 280.588 | 73.671 | 192.684 | 10.975 | 0.02875 | 3.02685 | 4 X |
| K09R53R | 16.1 | 0.15 | K123E | 349.366 | 359.779 | 197.885 | 11.468 | 0.11020 | 3.17021 | 5 X |
| K09R68N | 15.7 | 0.15 | K123E | 272.168 | 244.379 | 21.242 | 22.429 | 0.07502 | 3.10049 | 4 X |
| K09S90P | 15.3 | 0.15 | K123E | 20.893 | 183.964 | 336.710 | 10.867 | 0.06517 | 2.96702 | 4 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K09SD1V | 17.1 | 0.15 | K123E | 285.280 | 240.740 | 27.462 | 13.377 | 0.24468 | 2.66500 | 5 X |
| K09SD7E | 16.2 | 0.15 | K123E | 290.855 | 247.977 | 20.817 | 12.857 | 0.24531 | 2.69783 | 6 X |
| K09SF2P | 16.6 | 0.15 | K123E | 309.346 | 222.788 | 337.983 | 10.725 | 0.13485 | 3.04791 | 3 X |
| K09SN9X | 15.5 | 0.15 | K123E | 162.214 | 234.246 | 129.458 | 17.385 | 0.22440 | 3.12581 | 4 X |
| K09SO0B | 16.1 | 0.15 | K123E | 210.188 | 263.465 | 69.679 | 13.460 | 0.18850 | 2.80428 | 5 X |
| K09SP5M | 16.0 | 0.15 | K123E | 243.385 | 162.503 | 143.513 | 34.140 | 0.20901 | 2.60905 | 4 X |
| K09SR7N | 16.0 | 0.15 | K123E | 165.075 | 340.798 | 20.864 | 16.249 | 0.07634 | 3.17867 | 3 X |
| K09SX0E | 16.2 | 0.15 | K123E | 160.177 | 13.280 | 347.727 | 9.966 | 0.10604 | 3.07415 | 4 X |
| K09Sa3H | 15.5 | 0.15 | K123E | 70.338 | 89.659 | 22.725 | 22.229 | 0.04232 | 3.22146 | 3 X |
| K09T00G | 15.8 | 0.15 | K123E | 259.504 | 234.947 | 40.703 | 15.341 | 0.00804 | 3.19690 | 5 X |
| K09T32F | 15.7 | 0.15 | K123E | 188.368 | 298.646 | 44.292 | 12.976 | 0.12385 | 3.09949 | 4 X |
| K09U90L | 15.5 | 0.15 | K123E | 143.504 | 253.038 | 148.928 | 12.000 | 0.11188 | 2.99493 | 6 X |
| K09V42L | 15.7 | 0.15 | K123E | 206.393 | 238.875 | 97.321 | 11.035 | 0.11242 | 3.11237 | 5 X |
| K10L99C | 15.4 | 0.15 | K123E | 43.841 | 278.379 | 153.842 | 26.431 | 0.27791 | 3.17972 | 4 X |
| K10O82L | 16.2 | 0.15 | K123E | 99.716 | 65.536 | 314.572 | 13.833 | 0.29641 | 3.12703 | 3 X |
| K10O98E | 16.2 | 0.15 | K123E | 86.296 | 76.964 | 335.091 | 12.763 | 0.18931 | 2.99853 | 3 X |
| K10OA5W | 15.8 | 0.15 | K123E | 133.555 | 339.110 | 37.453 | 14.398 | 0.28342 | 2.58538 | 6 X |
| K10OC0U | 15.1 | 0.15 | K123E | 55.352 | 74.590 | 19.533 | 18.886 | 0.21441 | 3.06311 | 3 X |
| K10P72M | 14.8 | 0.15 | K123E | 80.810 | 339.961 | 75.239 | 24.021 | 0.15679 | 3.10423 | 5 X |
| K10R03D | 16.6 | 0.15 | K123E | 113.209 | 9.095 | 354.624 | 12.864 | 0.21204 | 2.67655 | 3 X |
| K10R03Z | 16.8 | 0.15 | K123E | 18.271 | 202.626 | 283.210 | 9.977 | 0.08750 | 2.51760 | 4 X |
| K10R43Z | 17.3 | 0.15 | K123E | 165.201 | 203.734 | 131.191 | 3.105 | 0.20382 | 2.37303 | 5 X |
| K10R71W | 16.4 | 0.15 | K123E | 124.491 | 358.183 | 0.761 | 14.373 | 0.10227 | 2.69222 | 2 X |
| K10RB1Y | 17.1 | 0.15 | K123E | 7.229 | 335.091 | 174.727 | 7.013 | 0.04893 | 2.35486 | 4 X |
| K10RC0S | 16.9 | 0.15 | K123E | 134.968 | 6.524 | 344.987 | 13.491 | 0.09126 | 2.57081 | 5 X |
| K10RE9J | 18.2 | 0.15 | K123E | 130.586 | 36.036 | 341.435 | 6.175 | 0.12435 | 2.39983 | 3 X |
| K10S29P | 17.5 | 0.15 | K123E | 160.548 | 245.522 | 107.072 | 1.483 | 0.24420 | 2.36366 | 6 X |
| K10S38P | 15.9 | 0.15 | K123E | 62.175 | 134.487 | 317.070 | 13.349 | 0.17247 | 2.60824 | 3 X |
| K10T81W | 17.2 | 0.15 | K123E | 64.919 | 5.329 | 63.497 | 1.725 | 0.15894 | 3.09840 | 3 X |
| K10TE1P | 17.1 | 0.15 | K123E | 17.054 | 136.346 | 10.935 | 13.323 | 0.11430 | 2.61432 | 3 X |
| K10TE2B | 15.4 | 0.15 | K123E | 143.706 | 297.398 | 79.114 | 9.330 | 0.20949 | 3.08379 | 5 X |
| K10TE2O | 16.4 | 0.15 | K123E | 348.327 | 263.627 | 268.026 | 5.912 | 0.24655 | 2.85074 | 4 X |
| K10TE3M | 17.4 | 0.15 | K123E | 59.098 | 157.100 | 292.130 | 4.361 | 0.00949 | 2.70214 | 2 X |
| K10TG2C | 15.0 | 0.15 | K123E | 36.019 | 62.625 | 44.605 | 26.405 | 0.18175 | 3.18171 | 6 X |
| K10U17H | 15.4 | 0.15 | K123E | 139.489 | 292.690 | 64.432 | 10.122 | 0.09560 | 3.16386 | 4 X |
| K10U42B | 16.8 | 0.15 | K123E | 87.270 | 352.391 | 39.944 | 12.169 | 0.10109 | 3.08280 | 4 X |
| K10U95H | 15.9 | 0.15 | K123E | 85.164 | 290.090 | 122.405 | 6.407 | 0.17994 | 3.21313 | 4 X |
| K10V20F | 15.7 | 0.15 | K123E | 132.758 | 119.239 | 255.654 | 6.355 | 0.08551 | 3.20376 | 7 X |
| K10V20O | 16.5 | 0.15 | K123E | 157.188 | 243.151 | 107.669 | 7.881 | 0.21539 | 2.58396 | 5 X |
| K10V33G | 17.8 | 0.15 | K123E | 307.948 | 82.526 | 162.350 | 3.798 | 0.15201 | 2.19843 | 4 X |
| K10VA8L | 16.8 | 0.15 | K123E | 14.310 | 340.964 | 161.106 | 4.840 | 0.02287 | 2.76027 | 3 X |
| K10VD7S | 15.4 | 0.15 | K123E | 66.831 | 341.211 | 111.074 | 18.414 | 0.16599 | 3.12270 | 3 X |
| K10VE5L | 16.8 | 0.15 | K123E | 264.838 | 176.713 | 96.772 | 7.198 | 0.09143 | 2.30588 | 9 X |
| K10VG1S | 16.4 | 0.15 | K123E | 26.445 | 91.932 | 48.591 | 13.898 | 0.05258 | 2.75626 | 3 X |
| K10VH0C | 15.8 | 0.15 | K123E | 44.896 | 235.453 | 246.569 | 4.620 | 0.15997 | 3.05735 | 4 X |
| K10VH3Z | 15.6 | 0.15 | K123E | 154.947 | 278.252 | 60.329 | 11.652 | 0.11835 | 3.07714 | 3 X |
| K10VI5B | 16.1 | 0.15 | K123E | 322.984 | 256.358 | 286.067 | 9.088 | 0.06424 | 3.15596 | 4 X |
| K10W02H | 17.1 | 0.15 | K123E | 251.543 | 211.057 | 74.671 | 6.811 | 0.06459 | 2.48471 | 5 X |
| K10W08J | 16.7 | 0.15 | K123E | 84.680 | 4.989 | 39.923 | 10.432 | 0.10489 | 3.03167 | 3 X |
| K10W20U | 17.4 | 0.15 | K123E | 262.862 | 212.083 | 68.864 | 7.269 | 0.10248 | 2.43333 | 6 X |
| K10W74F | 16.2 | 0.15 | K123E | 12.798 | 168.185 | 339.796 | 4.687 | 0.12562 | 3.22454 | 5 X |
| K10X06X | 16.8 | 0.15 | K123E | 176.202 | 213.663 | 120.208 | 10.097 | 0.15410 | 2.77913 | 4 X |
| K10X35U | 16.5 | 0.15 | K123E | 74.123 | 8.448 | 80.539 | 12.013 | 0.07153 | 3.01298 | 4 X |
| K10X64R | 16.7 | 0.15 | K123E | 158.825 | 281.398 | 93.665 | 7.300 | 0.04633 | 2.69182 | 5 X |
| K10X79Z | 16.5 | 0.15 | K123E | 99.700 | 212.212 | 223.293 | 3.374 | 0.08111 | 2.80924 | 9 X |
| K10X85X | 17.0 | 0.15 | K123E | 193.344 | 229.473 | 115.783 | 8.841 | 0.15683 | 2.42685 | 6 X |
| K11A03P | 15.5 | 0.15 | K123E | 62.453 | 28.746 | 74.466 | 8.077 | 0.06779 | 3.13446 | 4 X |
| K11A09Z | 15.7 | 0.15 | K123E | 224.106 | 212.175 | 107.002 | 10.832 | 0.11313 | 3.10644 | 5 X |
| K11A58L | 15.8 | 0.15 | K123E | 222.551 | 216.568 | 101.144 | 11.193 | 0.05918 | 3.13692 | 5 X |
| K11A60Y | 15.6 | 0.15 | K123E | 236.137 | 195.589 | 111.571 | 13.233 | 0.06861 | 3.40341 | 5 X |
| K11C04P | 21.2 | 0.15 | K123E | 336.424 | 159.861 | 148.058 | 9.441 | 0.87023 | 0.91145 | 4 X |

| | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|-----|
| K11SA2L | 18.2 | 0.15 | K123E | 17.868 | 51.389 | 59.730 | 10.038 | 0.48984 | 2.20241 | 3 X |
| K11WD4V | 17.0 | 0.15 | K123E | 355.678 | 25.635 | 157.789 | 6.044 | 0.67834 | 2.78607 | 2 X |
| K11Y10Q | 18.8 | 0.15 | K123E | 60.198 | 238.472 | 125.015 | 2.402 | 0.52175 | 2.24314 | 2 W |
| K11Y15V | 17.1 | 0.15 | K123E | 3.051 | 162.450 | 1.913 | 5.967 | 0.54521 | 2.84367 | 3 X |
| K11Y65Q | 13.8 | 0.15 | K123E | 340.298 | 224.364 | 283.352 | 11.676 | 0.06602 | 5.17228 | 7 X |
| K12A08V | 16.3 | 0.15 | K123E | 60.418 | 115.808 | 295.286 | 17.445 | 0.18684 | 3.14522 | 2 X |
| K12A09T | 17.4 | 0.15 | K123E | 326.889 | 21.537 | 159.265 | 5.544 | 0.09065 | 2.30153 | 7 X |
| K12B09R | 17.3 | 0.15 | K123E | 39.672 | 174.194 | 300.724 | 6.988 | 0.04759 | 2.29939 | 3 X |
| K12B21D | 16.2 | 0.15 | K123E | 31.799 | 139.197 | 325.683 | 15.934 | 0.24602 | 2.77532 | 4 X |
| K12B22B | 17.7 | 0.15 | K123E | 348.197 | 232.894 | 277.917 | 6.015 | 0.06961 | 2.45030 | 5 X |
| K12B32U | 16.5 | 0.15 | K123E | 24.111 | 216.676 | 251.778 | 11.033 | 0.23662 | 2.56337 | 2 S |

New perturbed one-opposition orbits:

| Object | H | G | Epoch | M | Peri. | Node | Incl. | e | a | Arc C |
|----------------|-------------|-------------|--------------|----------------|----------------|----------------|---------------|----------------|----------------|--------------|
| K11O51L | 19.8 | 0.15 | K123E | 21.172 | 110.363 | 288.241 | 4.393 | 0.64001 | 3.10645 | 207 X |
| K11S12Q | 20.9 | 0.15 | K123E | 54.157 | 39.993 | 8.790 | 13.692 | 0.39604 | 1.72712 | 154 W |
| K11S68J | 19.2 | 0.15 | K123E | 44.838 | 211.322 | 183.297 | 26.562 | 0.44344 | 2.26367 | 151 X |
| K11U21H | 23.1 | 0.15 | K123E | 37.663 | 50.658 | 21.406 | 3.410 | 0.45398 | 1.96036 | 123 X |
| K11U91P | 21.9 | 0.15 | K123E | 23.153 | 61.873 | 30.538 | 7.015 | 0.48160 | 2.05405 | 121 X |
| K11V05U | 20.3 | 0.15 | K123E | 34.641 | 24.844 | 44.151 | 30.543 | 0.55737 | 2.19701 | 109 X |
| K11W48L | 17.7 | 0.15 | K123E | 4.930 | 209.600 | 303.185 | 4.842 | 0.25142 | 2.61448 | 90 X |
| K11X03O | 16.7 | 0.15 | K123E | 353.084 | 209.833 | 321.358 | 23.878 | 0.66004 | 3.24399 | 80 X |
| K11Y06L | 21.4 | 0.15 | K123E | 9.419 | 41.723 | 92.741 | 9.056 | 0.48217 | 2.34782 | 51 X |
| K11Y15W | 24.7 | 0.15 | K123E | 47.273 | 353.643 | 91.657 | 5.054 | 0.32838 | 1.48277 | 55 X |
| K11Y62S | 19.7 | 0.15 | K123E | 25.913 | 356.847 | 58.703 | 21.530 | 0.57877 | 2.50845 | 53 X |
| K11Y63M | 22.1 | 0.15 | K123E | 10.337 | 181.670 | 320.129 | 1.412 | 0.52386 | 2.27993 | 51 X |
| K11Y74U | 23.0 | 0.15 | K123E | 351.082 | 275.637 | 275.550 | 1.955 | 0.25980 | 1.28059 | 56 X |
| K11Y75U | 17.0 | 0.15 | K123E | 357.708 | 243.282 | 295.327 | 16.749 | 0.76629 | 7.48461 | 56 X |
| K12A00X | 23.8 | 0.15 | K123E | 13.712 | 42.233 | 91.091 | 7.139 | 0.50645 | 2.05942 | 49 X |
| K12A11A | 20.1 | 0.15 | K123E | 0.228 | 145.671 | 21.317 | 6.406 | 0.48404 | 1.97690 | 36 X |
| K12A11C | 22.2 | 0.15 | K123E | 20.741 | 192.753 | 302.495 | 20.839 | 0.07079 | 1.32361 | 38 X |
| K12B14E | 22.7 | 0.15 | K123E | 35.416 | 355.366 | 119.982 | 22.355 | 0.09216 | 1.39368 | 31 X |
| K12B20C | 18.4 | 0.15 | K123E | 313.400 | 103.808 | 151.706 | 23.834 | 0.27905 | 1.37384 | 30 X |
| K12B23T | 19.0 | 0.15 | K123E | 346.377 | 43.228 | 182.392 | 9.111 | 0.60096 | 1.97510 | 32 X |
| K12B77F | 24.9 | 0.15 | K123E | 28.228 | 5.669 | 113.247 | 5.218 | 0.33174 | 1.50074 | 24 X |
| K12B86J | 21.7 | 0.15 | K123E | 33.282 | 99.253 | 302.553 | 1.338 | 0.63827 | 1.97960 | 23 X |
| K12BC4B | 21.4 | 0.15 | K123E | 287.947 | 122.710 | 137.726 | 15.807 | 0.21134 | 1.15529 | 22 X |
| K12BD4J | 18.1 | 0.15 | K123E | 345.333 | 136.890 | 145.936 | 20.778 | 0.83419 | 2.25708 | 33 X |
| K12C17C | 20.5 | 0.15 | K123E | 334.137 | 234.698 | 343.646 | 11.805 | 0.36439 | 1.62065 | 18 X |
| K12C21A | 19.3 | 0.15 | K123E | 359.194 | 35.561 | 128.178 | 28.838 | 0.65771 | 2.64604 | 9 X |
| K12C29D | 20.0 | 0.15 | K123E | 311.256 | 152.316 | 144.821 | 19.400 | 0.65035 | 1.02745 | 7 X |
| K12C29M | 22.3 | 0.15 | K123E | 0.437 | 40.474 | 132.812 | 6.156 | 0.40397 | 2.03860 | 7 X |
| K12C46N | 24.7 | 0.15 | K123E | 13.624 | 23.696 | 122.886 | 2.243 | 0.20054 | 1.44899 | 8 X |
| K12C46O | 22.7 | 0.15 | K123E | 88.895 | 63.964 | 349.891 | 3.621 | 0.19518 | 1.31861 | 3 X |
| K12C53A | 25.6 | 0.15 | K123E | 52.122 | 136.913 | 321.899 | 10.761 | 0.19153 | 1.26396 | 4 W |
| K12D00N | 18.6 | 0.15 | K123E | 62.243 | 251.193 | 142.297 | 18.099 | 0.56759 | 2.20085 | 4 X |
| K12D00O | 20.3 | 0.15 | K123E | 359.327 | 340.019 | 196.332 | 10.284 | 0.50859 | 2.21935 | 5 X |
| K12D00X | 27.0 | 0.15 | K123E | 347.619 | 235.489 | 333.963 | 5.962 | 0.40102 | 1.43744 | 1 X |
| K12D00Y | 26.7 | 0.15 | K123E | 359.441 | 31.159 | 150.081 | 4.982 | 0.54177 | 2.12170 | 1 X |
| K12D00Z | 26.1 | 0.15 | K123E | 353.567 | 250.832 | 327.432 | 1.285 | 0.64734 | 2.18286 | 1 X |
| K12D04F | 26.0 | 0.15 | K123E | 344.811 | 87.072 | 146.936 | 4.704 | 0.53981 | 1.50422 | 4 W |
| K12D04G | 18.0 | 0.15 | K123E | 33.305 | 74.569 | 336.424 | 10.279 | 0.62538 | 3.30618 | 4 W |
| K12D04H | 20.6 | 0.15 | K123E | 343.111 | 68.630 | 169.335 | 14.392 | 0.57266 | 2.01068 | 2 W |
| K12D04J | 20.3 | 0.15 | K123E | 57.352 | 271.137 | 155.387 | 7.918 | 0.34520 | 1.80645 | 2 W |
| K12D04K | 23.6 | 0.15 | K123E | 222.695 | 148.512 | 168.383 | 4.076 | 0.18137 | 0.89127 | 2 W |
| K12D04L | 24.8 | 0.15 | K123E | 59.969 | 280.226 | 154.704 | 7.715 | 0.30494 | 1.25041 | 2 W |
| K12D04M | 24.2 | 0.15 | K123E | 15.127 | 342.246 | 148.244 | 12.614 | 0.45915 | 1.94176 | 2 W |

New one-opposition orbits:

| Object | H | G | Epoch | M | Peri. | Node | Incl. | e | a | Arc C |
|---------|------|------|-------|--------|---------|--------|-------|---------|---------|-------|
| K02T05V | 15.2 | 0.15 | K029N | 43.790 | 293.826 | 31.209 | 9.623 | 0.07627 | 3.03966 | 43 W |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|----|---|
| K02T08Z | 18.0 | 0.15 | K029N | 19.261 | 131.866 | 195.888 | 31.653 | 0.36075 | 2.57729 | 43 | W |
| K02T33Z | 16.8 | 0.15 | K02AD | 352.057 | 6.256 | 27.371 | 9.409 | 0.27828 | 2.66606 | 76 | X |
| K02T64Y | 17.5 | 0.15 | K029N | 3.927 | 299.899 | 65.184 | 13.374 | 0.27503 | 2.57773 | 39 | X |
| K02T97X | 16.2 | 0.15 | K0293 | 347.165 | 48.313 | 324.054 | 14.181 | 0.14027 | 2.43356 | 33 | X |
| K02TC5P | 15.1 | 0.15 | K0293 | 6.730 | 68.224 | 283.508 | 7.757 | 0.14172 | 3.14786 | 32 | X |
| K02TD1O | 17.1 | 0.15 | K02AD | 25.075 | 78.784 | 248.490 | 4.003 | 0.31993 | 2.62034 | 32 | X |
| K02TD2P | 16.6 | 0.15 | K02AD | 324.625 | 162.674 | 268.830 | 3.717 | 0.22460 | 2.58790 | 26 | X |
| K02TH3O | 17.1 | 0.15 | K02AD | 354.859 | 289.791 | 93.648 | 5.160 | 0.24477 | 2.31988 | 39 | X |
| K02TH9O | 17.8 | 0.15 | K02B2 | 9.507 | 40.162 | 346.754 | 8.160 | 0.29796 | 2.22439 | 60 | X |
| K02TR1O | 17.8 | 0.15 | K02AD | 11.082 | 355.252 | 6.308 | 6.458 | 0.23168 | 2.36251 | 27 | X |
| K02TX5O | 18.9 | 0.15 | K029N | 349.539 | 213.464 | 173.864 | 8.077 | 0.28357 | 2.66781 | 14 | X |
| K11Y14W | 16.4 | 0.15 | K11CP | 357.718 | 355.816 | 113.515 | 25.723 | 0.18725 | 3.90449 | 30 | S |
| K11Y67M | 17.5 | 0.15 | K121E | 11.780 | 154.002 | 313.609 | 12.389 | 0.09096 | 2.75250 | 44 | S |
| K12A08G | 18.8 | 0.15 | K121E | 7.765 | 357.652 | 108.234 | 4.496 | 0.18217 | 2.37514 | 39 | S |
| K12B02N | 16.7 | 0.15 | K121E | 355.533 | 52.434 | 81.948 | 16.376 | 0.25606 | 3.10679 | 29 | S |
| K12B02R | 15.9 | 0.15 | K121E | 121.979 | 42.014 | 328.993 | 11.607 | 0.05084 | 3.23077 | 29 | S |
| K12B09Z | 18.6 | 0.15 | K1223 | 280.636 | 84.631 | 144.050 | 23.568 | 0.06125 | 1.89425 | 32 | S |
| K12B10N | 16.0 | 0.15 | K1223 | 356.730 | 357.080 | 159.146 | 10.707 | 0.15483 | 3.98236 | 32 | S |
| K12B14M | 17.8 | 0.15 | K1223 | 19.458 | 144.983 | 333.457 | 24.022 | 0.19128 | 2.27308 | 34 | X |
| K12B16G | 18.4 | 0.15 | K1223 | 20.782 | 132.340 | 323.228 | 10.901 | 0.33073 | 2.68303 | 31 | S |
| K12B25G | 17.6 | 0.15 | K1223 | 354.278 | 189.871 | 327.462 | 24.655 | 0.17755 | 2.25547 | 30 | S |
| K12B27X | 18.5 | 0.15 | K1223 | 326.696 | 198.656 | 343.382 | 5.322 | 0.09571 | 2.18874 | 31 | S |
| K12B35W | 16.8 | 0.15 | K121E | 90.139 | 242.918 | 134.018 | 6.138 | 0.07154 | 2.68475 | 46 | S |
| K12B51U | 17.6 | 0.15 | K1223 | 286.027 | 81.081 | 142.426 | 4.223 | 0.10370 | 2.65114 | 25 | S |
| K12B53O | 17.5 | 0.15 | K1223 | 314.027 | 224.088 | 338.719 | 5.987 | 0.11286 | 2.27283 | 30 | X |
| K12B55Y | 16.7 | 0.15 | K1223 | 329.469 | 69.968 | 120.691 | 7.571 | 0.14735 | 2.99302 | 31 | X |
| K12B86R | 15.8 | 0.15 | K121E | 334.106 | 191.965 | 327.958 | 14.273 | 0.20517 | 3.19010 | 23 | S |
| K12B88S | 16.3 | 0.15 | K1223 | 263.644 | 275.751 | 333.107 | 12.222 | 0.18027 | 2.85786 | 34 | X |
| K12B92G | 17.4 | 0.15 | K121E | 46.262 | 298.845 | 134.711 | 13.226 | 0.14258 | 2.65268 | 42 | S |
| K12B95N | 17.7 | 0.15 | K121E | 42.877 | 103.904 | 314.383 | 5.482 | 0.27233 | 2.63021 | 28 | S |
| K12B95P | 17.0 | 0.15 | K1223 | 65.348 | 313.401 | 106.416 | 12.369 | 0.10702 | 3.03988 | 21 | S |
| K12B98W | 18.0 | 0.15 | K121E | 301.391 | 84.603 | 122.594 | 4.645 | 0.18965 | 3.03233 | 23 | S |
| K12B99F | 19.1 | 0.15 | K1223 | 326.099 | 65.423 | 111.265 | 2.582 | 0.13135 | 2.49191 | 18 | S |
| K12B99Y | 17.8 | 0.15 | K121E | 21.046 | 135.484 | 321.155 | 9.634 | 0.17986 | 2.74025 | 23 | S |
| K12BA3P | 15.6 | 0.15 | K1223 | 296.585 | 242.778 | 334.072 | 24.741 | 0.17340 | 3.16348 | 31 | S |
| K12BA3S | 16.4 | 0.15 | K1223 | 27.236 | 142.476 | 318.032 | 12.617 | 0.23537 | 3.08397 | 31 | S |
| K12BA5D | 19.0 | 0.15 | K1223 | 32.476 | 319.967 | 143.115 | 23.717 | 0.07541 | 1.92948 | 20 | S |
| K12BB2A | 18.3 | 0.15 | K1223 | 46.330 | 128.826 | 307.364 | 4.317 | 0.20621 | 2.38022 | 31 | S |
| K12BB8R | 16.0 | 0.15 | K1223 | 188.395 | 354.192 | 310.249 | 9.037 | 0.14412 | 3.17790 | 23 | S |
| K12BB9F | 14.3 | 0.15 | K121E | 57.130 | 282.928 | 128.549 | 5.100 | 0.18739 | 5.16389 | 47 | S |
| K12BC0F | 18.5 | 0.15 | K121E | 13.242 | 164.507 | 304.119 | 1.597 | 0.13584 | 2.36000 | 24 | S |
| K12BC1T | 18.0 | 0.15 | K1223 | 241.570 | 297.304 | 325.892 | 5.382 | 0.10248 | 2.43149 | 17 | S |
| K12BC2B | 16.6 | 0.15 | K1223 | 359.468 | 358.802 | 152.551 | 15.805 | 0.11149 | 2.79179 | 20 | S |
| K12BC4S | 18.5 | 0.15 | K121E | 338.026 | 25.987 | 135.899 | 4.872 | 0.21958 | 2.59407 | 24 | S |
| K12BC5E | 17.6 | 0.15 | K121E | 8.284 | 192.097 | 291.229 | 6.869 | 0.03791 | 2.24371 | 41 | S |
| K12BC5G | 17.0 | 0.15 | K121E | 2.745 | 187.014 | 305.301 | 13.718 | 0.05503 | 2.61543 | 41 | S |
| K12BC7R | 16.4 | 0.15 | K121E | 38.521 | 335.175 | 111.856 | 2.897 | 0.13307 | 3.16540 | 27 | S |
| K12BC8E | 16.0 | 0.15 | K1223 | 27.401 | 128.342 | 335.572 | 9.696 | 0.18308 | 3.15738 | 31 | S |
| K12BD0G | 18.4 | 0.15 | K121E | 4.076 | 28.184 | 99.522 | 2.301 | 0.12931 | 2.34293 | 27 | S |
| K12BD1S | 15.9 | 0.15 | K121E | 345.492 | 75.500 | 66.073 | 11.467 | 0.08662 | 2.94912 | 44 | S |
| K12BD1T | 16.1 | 0.15 | K1223 | 347.905 | 37.744 | 116.235 | 31.516 | 0.24696 | 3.08510 | 25 | S |
| K12BD2B | 17.6 | 0.15 | K121E | 344.257 | 25.605 | 128.688 | 16.194 | 0.32623 | 3.01425 | 28 | S |
| K12BD2E | 16.0 | 0.15 | K121E | 343.272 | 185.365 | 325.780 | 9.423 | 0.15663 | 3.18549 | 23 | S |
| K12BD2L | 16.5 | 0.15 | K1223 | 16.666 | 37.289 | 71.709 | 15.604 | 0.33518 | 3.30574 | 27 | S |
| K12BD3B | 17.1 | 0.15 | K121E | 10.746 | 158.969 | 306.373 | 14.089 | 0.23162 | 2.66210 | 45 | S |
| K12BD3G | 15.9 | 0.15 | K121E | 286.613 | 285.642 | 299.088 | 12.580 | 0.14445 | 2.73140 | 41 | S |
| K12BD3T | 15.7 | 0.15 | K1223 | 359.560 | 26.621 | 110.022 | 16.354 | 0.12055 | 3.04947 | 29 | S |
| K12BD3Z | 15.7 | 0.15 | K121E | 337.581 | 64.033 | 91.383 | 18.348 | 0.09072 | 2.78911 | 27 | S |
| K12BD4Z | 18.9 | 0.15 | K1223 | 165.449 | 8.959 | 326.603 | 19.362 | 0.07057 | 1.87421 | 25 | S |
| K12BD6R | 16.1 | 0.15 | K121E | 292.953 | 261.106 | 316.123 | 10.929 | 0.14608 | 3.08705 | 24 | S |
| K12BD7F | 18.8 | 0.15 | K1223 | 357.920 | 195.654 | 304.098 | 1.670 | 0.16841 | 2.33557 | 19 | S |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|----|---|
| K12BD7N | 16.8 | 0.15 | K121E | 21.436 | 65.758 | 43.338 | 2.003 | 0.11010 | 3.24050 | 27 | S |
| K12BD8U | 16.8 | 0.15 | K1223 | 336.935 | 17.554 | 139.203 | 1.640 | 0.09108 | 3.01493 | 31 | S |
| K12BD9N | 17.7 | 0.15 | K1223 | 53.764 | 84.839 | 345.738 | 6.981 | 0.20944 | 2.45693 | 25 | S |
| K12BD9R | 16.9 | 0.15 | K121E | 151.300 | 220.688 | 121.323 | 7.103 | 0.04779 | 2.73187 | 27 | S |
| K12BE0C | 16.7 | 0.15 | K1223 | 27.898 | 309.252 | 162.006 | 9.297 | 0.17613 | 3.21834 | 31 | S |
| K12BE0H | 16.4 | 0.15 | K121E | 18.870 | 299.310 | 140.302 | 17.133 | 0.32766 | 3.14201 | 31 | S |
| K12C00Q | 17.1 | 0.15 | K1223 | 80.022 | 78.387 | 342.547 | 19.390 | 0.09160 | 1.95440 | 23 | S |
| K12C00X | 16.6 | 0.15 | K1223 | 128.928 | 227.383 | 137.810 | 15.495 | 0.12159 | 2.62093 | 32 | S |
| K12C01C | 18.8 | 0.15 | K121E | 28.697 | 301.214 | 143.347 | 28.216 | 0.28348 | 2.59403 | 28 | S |
| K12C02C | 16.5 | 0.15 | K1223 | 177.458 | 358.449 | 332.605 | 8.290 | 0.10010 | 3.04055 | 28 | S |
| K12C02Z | 15.9 | 0.15 | K1223 | 52.675 | 296.967 | 146.520 | 17.647 | 0.10030 | 3.24423 | 31 | S |
| K12C05K | 16.7 | 0.15 | K1223 | 322.293 | 202.965 | 359.101 | 13.442 | 0.28937 | 2.69683 | 16 | S |
| K12C05L | 16.5 | 0.15 | K121E | 42.597 | 14.052 | 63.926 | 10.411 | 0.13990 | 2.56929 | 28 | S |
| K12C05X | 16.2 | 0.15 | K121E | 142.374 | 240.754 | 110.011 | 11.914 | 0.06378 | 3.09954 | 28 | S |
| K12C07K | 16.7 | 0.15 | K1223 | 7.929 | 339.521 | 147.641 | 1.517 | 0.12690 | 3.16028 | 20 | S |
| K12C07W | 16.4 | 0.15 | K121E | 298.027 | 71.639 | 144.444 | 16.556 | 0.17812 | 3.14290 | 41 | S |
| K12C08J | 17.3 | 0.15 | K1223 | 329.609 | 228.168 | 313.474 | 5.117 | 0.18505 | 3.00145 | 19 | S |
| K12C09A | 18.2 | 0.15 | K1223 | 42.550 | 306.630 | 134.536 | 2.130 | 0.16086 | 2.42481 | 20 | S |
| K12C09H | 18.3 | 0.15 | K121E | 43.073 | 264.357 | 171.433 | 1.258 | 0.15571 | 2.38759 | 27 | S |
| K12C09L | 18.5 | 0.15 | K1223 | 81.732 | 83.875 | 320.407 | 4.637 | 0.12145 | 2.36267 | 19 | S |
| K12C09V | 16.1 | 0.15 | K121E | 22.439 | 321.694 | 150.520 | 10.105 | 0.03212 | 3.17569 | 41 | S |
| K12C10B | 16.4 | 0.15 | K121E | 260.940 | 94.094 | 154.288 | 11.784 | 0.09629 | 3.13511 | 24 | S |
| K12C11H | 17.5 | 0.15 | K121E | 67.605 | 276.897 | 131.873 | 12.701 | 0.17922 | 2.63253 | 27 | S |
| K12C11R | 17.1 | 0.15 | K121E | 68.672 | 297.365 | 129.533 | 10.228 | 0.03933 | 3.14166 | 27 | S |
| K12C11W | 17.6 | 0.15 | K1223 | 2.906 | 169.427 | 329.996 | 10.556 | 0.06613 | 2.63172 | 16 | S |
| K12C12Z | 16.5 | 0.15 | K1223 | 165.063 | 246.655 | 94.416 | 2.346 | 0.05420 | 3.01815 | 25 | S |
| K12C13A | 17.0 | 0.15 | K1223 | 88.649 | 260.684 | 138.947 | 14.531 | 0.16178 | 2.60146 | 29 | S |
| K12C13E | 16.6 | 0.15 | K1223 | 72.430 | 83.750 | 342.441 | 9.803 | 0.07544 | 3.07765 | 25 | S |
| K12C14B | 18.7 | 0.15 | K1223 | 342.491 | 179.565 | 345.413 | 1.198 | 0.11372 | 2.30733 | 24 | S |
| K12C14C | 17.0 | 0.15 | K121E | 19.710 | 333.089 | 146.364 | 12.935 | 0.06894 | 3.21391 | 27 | S |
| K12C14E | 17.7 | 0.15 | K1223 | 29.480 | 320.186 | 142.007 | 13.896 | 0.19157 | 3.00770 | 25 | S |
| K12C14H | 18.6 | 0.15 | K121E | 358.808 | 165.400 | 332.063 | 4.885 | 0.22298 | 2.56887 | 24 | S |
| K12C14K | 18.7 | 0.15 | K1223 | 318.470 | 60.064 | 140.823 | 5.568 | 0.17073 | 2.37799 | 21 | S |
| K12C14O | 18.3 | 0.15 | K1223 | 57.789 | 87.156 | 337.307 | 3.315 | 0.20711 | 2.38441 | 25 | S |
| K12C15D | 17.8 | 0.15 | K121E | 311.585 | 232.181 | 324.646 | 8.070 | 0.10741 | 2.57518 | 24 | S |
| K12C15F | 17.0 | 0.15 | K121E | 16.471 | 148.351 | 325.436 | 25.809 | 0.16901 | 2.74310 | 42 | S |
| K12C15J | 17.5 | 0.15 | K1223 | 48.862 | 286.253 | 150.761 | 5.134 | 0.15976 | 2.42648 | 20 | S |
| K12C15Q | 17.8 | 0.15 | K121E | 2.163 | 327.859 | 158.996 | 4.608 | 0.15516 | 2.59749 | 42 | S |
| K12C15T | 18.1 | 0.15 | K121E | 359.948 | 195.370 | 293.538 | 3.061 | 0.17687 | 2.36050 | 24 | S |
| K12C16E | 19.3 | 0.15 | K1223 | 304.638 | 256.492 | 322.443 | 5.710 | 0.21305 | 2.22716 | 18 | S |
| K12C16T | 17.1 | 0.15 | K1223 | 335.640 | 195.871 | 340.945 | 7.640 | 0.12053 | 2.77058 | 29 | S |
| K12C18B | 17.3 | 0.15 | K1223 | 353.364 | 75.804 | 63.057 | 16.266 | 0.20855 | 2.87134 | 17 | S |
| K12C18W | 16.0 | 0.15 | K1223 | 43.329 | 90.103 | 356.667 | 24.703 | 0.16332 | 2.69267 | 17 | S |
| K12C20A | 18.6 | 0.15 | K1223 | 336.565 | 59.924 | 104.821 | 5.453 | 0.13647 | 2.31820 | 7 | X |
| K12C20T | 16.6 | 0.15 | K1223 | 294.420 | 213.370 | 348.708 | 12.993 | 0.01543 | 3.16819 | 4 | S |
| K12C20U | 17.4 | 0.15 | K1223 | 319.323 | 302.184 | 263.318 | 6.685 | 0.21256 | 2.64520 | 3 | S |
| K12C21G | 17.5 | 0.15 | K121E | 57.205 | 111.775 | 319.117 | 6.459 | 0.07005 | 2.31723 | 31 | S |
| K12C21K | 18.2 | 0.15 | K1223 | 332.312 | 6.462 | 173.569 | 1.042 | 0.12426 | 2.40109 | 31 | S |
| K12C21N | 15.7 | 0.15 | K1223 | 29.311 | 183.969 | 281.935 | 10.137 | 0.04471 | 3.11572 | 7 | X |
| K12C23A | 17.0 | 0.15 | K121E | 43.397 | 169.602 | 251.412 | 3.502 | 0.28480 | 2.54497 | 26 | S |
| K12C24A | 16.6 | 0.15 | K1223 | 328.030 | 36.545 | 154.303 | 21.453 | 0.20278 | 3.09628 | 16 | S |
| K12C25A | 16.3 | 0.15 | K1223 | 228.330 | 15.935 | 272.314 | 7.985 | 0.11263 | 3.05590 | 7 | X |
| K12C25H | 15.8 | 0.15 | K1223 | 258.062 | 28.722 | 247.006 | 6.170 | 0.24889 | 2.93666 | 7 | X |
| K12C25X | 16.2 | 0.15 | K1223 | 229.064 | 89.418 | 192.455 | 9.545 | 0.04779 | 2.97352 | 7 | X |
| K12C28Y | 17.4 | 0.15 | K1223 | 349.430 | 236.624 | 284.510 | 6.553 | 0.16874 | 2.77439 | 7 | X |
| K12C29H | 16.8 | 0.15 | K1223 | 25.601 | 186.593 | 280.864 | 8.683 | 0.08128 | 2.60586 | 9 | X |
| K12C30E | 16.2 | 0.15 | K1223 | 192.709 | 223.741 | 75.974 | 10.527 | 0.04136 | 2.87871 | 25 | S |
| K12C30K | 17.8 | 0.15 | K1223 | 63.782 | 109.020 | 313.648 | 12.843 | 0.03004 | 2.66301 | 24 | S |
| K12C32A | 17.3 | 0.15 | K121E | 26.363 | 155.656 | 303.590 | 12.711 | 0.13299 | 2.58620 | 41 | S |
| K12C34A | 15.4 | 0.15 | K121E | 217.998 | 147.683 | 134.119 | 10.284 | 0.07824 | 3.12150 | 35 | S |
| K12C34D | 17.1 | 0.15 | K1223 | 23.878 | 331.126 | 137.315 | 6.561 | 0.09700 | 3.10267 | 20 | S |

| | | | | | | | | | | | |
|---------|------|------|-------|---------|---------|---------|--------|---------|---------|----|----|
| K12C34M | 19.4 | 0.15 | K1223 | 352.162 | 137.611 | 11.802 | 1.094 | 0.16182 | 2.38916 | 20 | S |
| K12C34T | 17.2 | 0.15 | K1223 | 90.037 | 80.870 | 321.047 | 21.502 | 0.05411 | 2.66482 | 16 | S |
| K12C34U | 17.8 | 0.15 | K1223 | 27.719 | 130.201 | 322.535 | 7.023 | 0.24150 | 2.77131 | 15 | S |
| K12C35G | 17.3 | 0.15 | K1223 | 112.230 | 236.463 | 146.220 | 6.343 | 0.03320 | 2.69371 | 25 | S |
| K12C35L | 17.9 | 0.15 | K1223 | 326.275 | 216.161 | 333.666 | 3.294 | 0.17802 | 2.38107 | 32 | S |
| K12C37D | 16.9 | 0.15 | K1223 | 33.868 | 131.987 | 327.251 | 13.928 | 0.17242 | 3.09407 | 29 | S |
| K12C37X | 16.9 | 0.15 | K1223 | 29.800 | 330.590 | 134.206 | 7.926 | 0.05354 | 2.77770 | 15 | S |
| K12C38A | 16.4 | 0.15 | K1223 | 53.065 | 84.669 | 357.604 | 14.350 | 0.03198 | 2.72458 | 32 | S |
| K12C38P | 16.6 | 0.15 | K1223 | 339.433 | 330.814 | 201.921 | 2.294 | 0.07707 | 3.21765 | 31 | S |
| K12C40N | 18.3 | 0.15 | K1223 | 28.394 | 91.123 | 14.748 | 1.470 | 0.14019 | 2.43764 | 17 | S |
| K12C40V | 15.8 | 0.15 | K121E | 189.759 | 172.668 | 145.914 | 22.960 | 0.11219 | 3.03227 | 28 | S |
| K12C41L | 17.2 | 0.15 | K1223 | 66.191 | 88.254 | 326.457 | 7.501 | 0.14948 | 2.61522 | 22 | S |
| K12C41P | 17.3 | 0.15 | K1223 | 89.486 | 73.210 | 323.050 | 14.243 | 0.11698 | 2.63215 | 24 | S |
| K12C42C | 17.3 | 0.15 | K1223 | 359.940 | 161.736 | 340.232 | 4.712 | 0.08426 | 2.91644 | 16 | S |
| K12C42P | 18.0 | 0.15 | K1223 | 19.782 | 328.568 | 146.861 | 14.074 | 0.18971 | 2.64257 | 31 | S |
| K12C42V | 17.9 | 0.15 | K1223 | 317.432 | 63.677 | 133.672 | 10.123 | 0.11233 | 2.65104 | 29 | S |
| K12C42Z | 16.8 | 0.15 | K1223 | 8.736 | 118.614 | 3.624 | 8.438 | 0.16078 | 3.21366 | 31 | S |
| K12C46X | 15.8 | 0.15 | K1223 | 269.697 | 285.283 | 333.967 | 25.183 | 0.18886 | 3.11293 | 21 | S |
| K12C46Z | 17.7 | 0.15 | K1223 | 14.685 | 146.646 | 336.717 | 11.726 | 0.20246 | 2.78604 | 25 | S |
| K12C50A | 16.9 | 0.15 | K1223 | 1.849 | 165.138 | 346.607 | 12.632 | 0.22520 | 2.61731 | 7 | X |
| K12C50D | 16.8 | 0.15 | K1223 | 358.997 | 357.952 | 159.102 | 2.536 | 0.13229 | 2.43958 | 7 | X |
| K12C50V | 18.0 | 0.15 | K1223 | 6.494 | 330.417 | 167.883 | 4.890 | 0.09039 | 2.34457 | 31 | S |
| K12C51U | 18.1 | 0.15 | K1223 | 327.063 | 12.883 | 178.595 | 2.128 | 0.13906 | 2.37840 | 20 | S |
| K12C52Z | 21.7 | 0.15 | K1223 | 347.782 | 35.020 | 130.479 | 11.023 | 0.44747 | 2.47602 | 7 | X |
| K12D03U | 18.8 | 0.15 | K1223 | 344.193 | 215.416 | 330.925 | 19.628 | 0.35781 | 2.73518 | 2 | X |
| K12D03V | 16.8 | 0.15 | K1223 | 20.799 | 103.043 | 10.056 | 28.684 | 0.36572 | 2.62245 | 1 | W |
| K12D03W | 17.4 | 0.15 | K1223 | 70.743 | 290.268 | 127.449 | 26.327 | 0.23675 | 2.14535 | 1 | X |
| K12D03X | 18.4 | 0.15 | K1223 | 104.584 | 252.261 | 130.470 | 22.503 | 0.10669 | 1.85052 | 27 | X |
| K12D03Y | 17.4 | 0.15 | K1223 | 334.739 | 182.358 | 1.404 | 28.018 | 0.15489 | 2.09967 | 1 | EX |
| K12D03Z | 16.2 | 0.15 | K1223 | 294.233 | 160.677 | 112.491 | 24.540 | 0.13216 | 1.77279 | 1 | EX |
| K12D04A | 16.9 | 0.15 | K1223 | 337.656 | 73.587 | 116.399 | 15.237 | 0.26308 | 2.76644 | 27 | S |
| K12D04N | 17.8 | 0.15 | K1223 | 206.233 | 207.049 | 96.536 | 22.250 | 0.09394 | 1.84756 | 1 | EX |
| K12D04O | 17.4 | 0.15 | K1223 | 291.684 | 105.398 | 133.152 | 22.315 | 0.18213 | 2.26732 | 28 | S |

New observations:

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|--------|-----|------|-------|------------|------------|
| K02A00W | KC2012 | 02 | 20.82288 | 08 | 55 | 16.16 | +16 | 34 | 28.4 | 18.4 | VuED037A13 |
| K02A00W | KC2012 | 02 | 20.83684 | 08 | 55 | 13.05 | +16 | 34 | 42.8 | 18.7 | VuED037A13 |
| K02A00W | KC2012 | 02 | 20.86029 | 08 | 55 | 07.77 | +16 | 35 | 06.3 | 18.8 | VuED037A13 |
| K02D05J | KC2012 | 02 | 20.89482 | 10 | 26 | 53.98 | +15 | 08 | 09.2 | 19.2 | RrED037113 |
| K02D05J | KC2012 | 02 | 20.91247 | 10 | 26 | 51.06 | +15 | 08 | 20.5 | 19.2 | RrED037113 |
| K02D05J | KC2012 | 02 | 20.92996 | 10 | 26 | 48.11 | +15 | 08 | 31.2 | 19.3 | RrED037113 |
| K02L00V | KC2012 | 02 | 20.40429114 | 46 | 32.20 | +18 | 03 | 25.2 | 22.1 | VoED037H21 | |
| K02L00V | KC2012 | 02 | 20.41743114 | 46 | 32.33 | +18 | 03 | 33.6 | 22.3 | VoED037H21 | |
| K02L00V | KC2012 | 02 | 20.43054814 | 46 | 32.46 | +18 | 03 | 42.2 | 22.1 | VoED037H21 | |
| K02R27D | C2012 | 02 | 20.44015 | 11 | 46 | 12.182 | +17 | 59 | 22.34 | 20.5 | wLED037F51 |
| K02R27D | C2012 | 02 | 20.45528 | 11 | 46 | 10.336 | +17 | 59 | 16.01 | 20.5 | wLED037F51 |
| K02R27D | C2012 | 02 | 20.47061 | 11 | 46 | 08.460 | +17 | 59 | 10.02 | 20.8 | wLED037F51 |
| K02R27D | C2012 | 02 | 20.48594 | 11 | 46 | 06.574 | +17 | 59 | 03.64 | 20.7 | wLED037F51 |
| K05B27S | KC2012 | 02 | 20.06398 | 03 | 42 | 46.12 | +32 | 53 | 22.7 | 21.3 | VuED037H21 |
| K05B27S | KC2012 | 02 | 20.07344 | 03 | 42 | 50.16 | +32 | 53 | 14.3 | 21.9 | VuED037H21 |
| K05B27S | KC2012 | 02 | 20.08290 | 03 | 42 | 54.24 | +32 | 53 | 05.2 | | uED037H21 |
| K05B27S | KC2012 | 02 | 20.08763 | 03 | 42 | 56.28 | +32 | 53 | 00.6 | 21.9 | VuED037H21 |
| K06A08L | KC2012 | 02 | 15.80516 | 06 | 28 | 11.72 | +15 | 10 | 25.9 | 17.5 | RcED037A24 |
| K06A08L | KC2012 | 02 | 15.82123 | 06 | 28 | 15.62 | +15 | 09 | 32.7 | 17.6 | RcED037A24 |
| K06A08L | KC2012 | 02 | 15.85280 | 06 | 28 | 23.37 | +15 | 07 | 49.6 | 17.3 | RcED037A24 |
| K06A08L | C2012 | 02 | 17.81343 | 06 | 35 | 49.35 | +13 | 32 | 29.5 | 17.9 | RcED037A24 |
| K06A08L | C2012 | 02 | 17.81381 | 06 | 35 | 49.45 | +13 | 32 | 28.6 | 17.9 | RcED037A24 |
| K06A08L | C2012 | 02 | 17.81418 | 06 | 35 | 49.53 | +13 | 32 | 27.9 | 17.5 | RcED037A24 |
| K06A08L | C2012 | 02 | 17.86106 | 06 | 35 | 58.81 | +13 | 30 | 25.7 | 17.6 | RcED037A24 |
| K06A08L | C2012 | 02 | 17.86145 | 06 | 35 | 58.90 | +13 | 30 | 25.8 | 17.4 | RcED037A24 |
| K06A08L | C2012 | 02 | 17.86183 | 06 | 35 | 58.99 | +13 | 30 | 25.8 | 17.9 | RcED037A24 |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|--------|-----|------|-------|------|------------|
| K06A08L | C2012 | 02 | 17.86220 | 06 | 35 | 59.09 | +13 | 30 | 23.9 | 17.6 | RcED037A24 |
| K06A08L | C2012 | 02 | 20.22454 | 06 | 43 | 09.89 | +12 | 01 | 07.8 | 18.3 | RuED037H45 |
| K06A08L | C2012 | 02 | 20.22597 | 06 | 43 | 10.10 | +12 | 01 | 04.7 | 18.3 | RuED037H45 |
| K06A08L | C2012 | 02 | 20.22698 | 06 | 43 | 10.28 | +12 | 01 | 02.8 | 18.3 | RuED037H45 |
| K06A08L | C2012 | 02 | 20.22840 | 06 | 43 | 10.45 | +12 | 01 | 00.3 | 18.4 | RuED037H45 |
| K06A08L | C2012 | 02 | 20.22981 | 06 | 43 | 10.70 | +12 | 00 | 57.1 | 18.4 | RuED037H45 |
| K06A08L | C2012 | 02 | 20.23097 | 06 | 43 | 10.92 | +12 | 00 | 54.4 | 18.4 | RuED037H45 |
| K07D00K | C2012 | 02 | 20.39811 | 11 | 27 | 51.87 | -08 | 53 | 20.3 | 19.0 | VrED037703 |
| K07D00K | C2012 | 02 | 20.41498 | 11 | 27 | 50.32 | -08 | 53 | 29.5 | 18.6 | VrED037703 |
| K07D00K | C2012 | 02 | 20.42289 | 11 | 27 | 49.57 | -08 | 53 | 34.0 | 19.7 | VrED037703 |
| K07D00K | C2012 | 02 | 20.55789 | 11 | 27 | 38.108 | -08 | 54 | 48.75 | 20.2 | gLED037F51 |
| K07D00K | C2012 | 02 | 20.56926 | 11 | 27 | 37.072 | -08 | 54 | 55.11 | 20.1 | gLED037F51 |
| K08P01F | C2012 | 02 | 20.43860 | 11 | 41 | 16.607 | +11 | 42 | 24.98 | 19.3 | wLED037F51 |
| K08P01F | C2012 | 02 | 20.45372 | 11 | 41 | 10.676 | +11 | 42 | 57.47 | 19.5 | wLED037F51 |
| K08P01F | C2012 | 02 | 20.46902 | 11 | 41 | 04.712 | +11 | 43 | 30.01 | 19.5 | wLED037F51 |
| K11C04P | C2012 | 02 | 20.38930 | 13 | 34 | 57.99 | +06 | 27 | 35.0 | 18.0 | cED037704 |
| K11C04P | C2012 | 02 | 20.40123 | 13 | 35 | 12.97 | +06 | 30 | 02.0 | 17.7 | cED037704 |
| K11C04P | C2012 | 02 | 20.41314 | 13 | 35 | 28.10 | +06 | 32 | 30.4 | 17.2 | cED037704 |
| K11C04P | C2012 | 02 | 20.42530 | 13 | 35 | 43.59 | +06 | 35 | 03.3 | 17.0 | cED037704 |
| K11C04P | C2012 | 02 | 20.43726 | 13 | 35 | 58.93 | +06 | 37 | 33.7 | 16.9 | cED037704 |
| K11C04P | C2012 | 02 | 20.47716 | 13 | 36 | 51.33 | +06 | 46 | 07.1 | 16.7 | VrED037703 |
| K11C04P | C2012 | 02 | 20.48507 | 13 | 37 | 01.74 | +06 | 47 | 49.0 | 16.7 | VrED037703 |
| K11C04P | C2012 | 02 | 20.49295 | 13 | 37 | 12.18 | +06 | 49 | 31.2 | 16.9 | VrED037703 |
| K11C04P | C2012 | 02 | 20.50086 | 13 | 37 | 22.69 | +06 | 51 | 14.4 | 16.9 | VrED037703 |
| K11O51L | KC2012 | 02 | 20.03816705 | 20 | 30.74 | +22 | 08 | 24.1 | | 22.3 | VoED037H21 |
| K11O51L | KC2012 | 02 | 20.05723005 | 20 | 33.60 | +22 | 08 | 23.2 | | 22.2 | VoED037H21 |
| K11O51L | KC2012 | 02 | 20.07460705 | 20 | 36.22 | +22 | 08 | 22.0 | | 22.6 | VoED037H21 |
| K11S12Q | KC2012 | 02 | 20.21737 | 07 | 54 | 41.35 | +49 | 28 | 59.2 | 21.6 | VuED037H21 |
| K11S12Q | KC2012 | 02 | 20.22882 | 07 | 54 | 41.62 | +49 | 28 | 34.6 | 21.4 | VuED037H21 |
| K11S12Q | KC2012 | 02 | 20.25211 | 07 | 54 | 42.11 | +49 | 27 | 44.2 | 21.6 | VuED037H21 |
| K11S68J | mC2012 | 02 | 21.17499 | 06 | 07 | 57.85 | -14 | 58 | 47.4 | | oED037291 |
| K11S68J | mC2012 | 02 | 21.17831 | 06 | 07 | 57.98 | -14 | 58 | 41.1 | | oED037291 |
| K11S68J | mC2012 | 02 | 21.18156 | 06 | 07 | 58.24 | -14 | 58 | 36.4 | | oED037291 |
| K11SA2L | C2012 | 02 | 20.47124 | 09 | 53 | 42.50 | +61 | 39 | 19.3 | 17.5 | VuED037379 |
| K11SA2L | C2012 | 02 | 20.50659 | 09 | 53 | 47.11 | +61 | 37 | 58.6 | | uED037379 |
| K11SA2L | C2012 | 02 | 20.53762 | 09 | 53 | 50.96 | +61 | 36 | 47.3 | | uED037379 |
| K11SA2L | C2012 | 02 | 20.54005 | 09 | 53 | 51.32 | +61 | 36 | 41.5 | | uED037379 |
| K11U21H | KC2012 | 02 | 20.21469409 | 12 | 38.09 | +26 | 09 | 48.4 | | 23.1 | VoED037H21 |
| K11U21H | KC2012 | 02 | 20.23672809 | 12 | 37.49 | +26 | 09 | 32.5 | | 22.7 | VoED037H21 |
| K11U21H | KC2012 | 02 | 20.25731909 | 12 | 36.94 | +26 | 09 | 17.8 | | 22.8 | VoED037H21 |
| K11U91P | KC2012 | 02 | 20.18960 | 06 | 37 | 34.04 | +48 | 55 | 01.0 | 21.7 | VuED037H21 |
| K11U91P | KC2012 | 02 | 20.19692 | 06 | 37 | 36.93 | +48 | 54 | 45.9 | 22.2 | VuED037H21 |
| K11U91P | KC2012 | 02 | 20.20402 | 06 | 37 | 39.74 | +48 | 54 | 32.7 | 22.1 | VuED037H21 |
| K11V05U | JC2012 | 02 | 20.46495 | 14 | 39 | 58.50 | +54 | 45 | 38.6 | 21.6 | RoED037695 |
| K11V05U | JC2012 | 02 | 20.47398 | 14 | 39 | 56.82 | +54 | 45 | 41.8 | 21.6 | RoED037695 |
| K11V05U | JC2012 | 02 | 20.48297 | 14 | 39 | 55.14 | +54 | 45 | 44.7 | 22.0 | RoED037695 |
| K11WD4V | C2012 | 02 | 17.79713 | 04 | 07 | 07.14 | +12 | 34 | 55.4 | 17.3 | RcED037A24 |
| K11WD4V | C2012 | 02 | 17.79785 | 04 | 07 | 07.13 | +12 | 34 | 55.9 | 17.2 | RcED037A24 |
| K11WD4V | C2012 | 02 | 17.84578 | 04 | 07 | 06.75 | +12 | 35 | 32.0 | 17.0 | RcED037A24 |
| K11WD4V | C2012 | 02 | 17.84650 | 04 | 07 | 06.74 | +12 | 35 | 33.0 | 17.0 | RcED037A24 |
| K11WD4V | C2012 | 02 | 20.14553 | 04 | 07 | 06.67 | +13 | 05 | 59.3 | 17.8 | RuED037H45 |
| K11WD4V | C2012 | 02 | 20.14685 | 04 | 07 | 06.67 | +13 | 06 | 00.9 | 17.7 | RuED037H45 |
| K11WD4V | C2012 | 02 | 20.14970 | 04 | 07 | 06.67 | +13 | 06 | 03.4 | 18.1 | RuED037H45 |
| K11WD4V | C2012 | 02 | 20.15091 | 04 | 07 | 06.67 | +13 | 06 | 03.9 | 18.1 | RuED037H45 |
| K11WD4V | C2012 | 02 | 20.15366 | 04 | 07 | 06.68 | +13 | 06 | 06.6 | 18.1 | RuED037H45 |
| K11WD4V | C2012 | 02 | 20.15594 | 04 | 07 | 06.68 | +13 | 06 | 08.1 | 18.0 | RuED037H45 |
| K11X03O | KC2012 | 02 | 15.78439 | 03 | 53 | 43.95 | +41 | 43 | 56.3 | 17.5 | RcED037A24 |
| K11X03O | KC2012 | 02 | 15.78583 | 03 | 53 | 44.17 | +41 | 43 | 52.6 | 18.1 | RcED037A24 |
| K11X03O | KC2012 | 02 | 15.80147 | 03 | 53 | 45.83 | +41 | 43 | 28.6 | 18.1 | RcED037A24 |
| K11X03O | KC2012 | 02 | 15.83310 | 03 | 53 | 49.20 | +41 | 42 | 39.1 | 17.7 | RcED037A24 |
| K11X03O | KC2012 | 02 | 15.83454 | 03 | 53 | 49.46 | +41 | 42 | 37.4 | 18.1 | RcED037A24 |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|-------|-------|-----|------|------|------------|------------|
| K11X03O | KC2012 | 02 | 17.79291 | 03 | 57 | 34.69 | +40 | 52 | 40.9 | 18.2 | RcED037A24 |
| K11X03O | KC2012 | 02 | 17.79435 | 03 | 57 | 34.88 | +40 | 52 | 38.3 | 18.1 | RcED037A24 |
| K11X03O | KC2012 | 02 | 17.80997 | 03 | 57 | 36.66 | +40 | 52 | 14.1 | 18.4 | RcED037A24 |
| K11X03O | KC2012 | 02 | 17.82595 | 03 | 57 | 38.49 | +40 | 51 | 49.4 | 18.4 | RcED037A24 |
| K11X03O | KC2012 | 02 | 17.84157 | 03 | 57 | 40.29 | +40 | 51 | 25.3 | 18.5 | RcED037A24 |
| K11X03O | KC2012 | 02 | 17.84301 | 03 | 57 | 40.43 | +40 | 51 | 23.3 | 18.4 | RcED037A24 |
| K11Y06L | C2012 | 02 | 19.61873 | 08 | 41 | 00.00 | +50 | 11 | 01.9 | 18.8 | RoED037C94 |
| K11Y06L | C2012 | 02 | 19.66778 | 08 | 41 | 07.32 | +50 | 11 | 00.0 | 17.1 | RoED037C94 |
| K11Y15V | C2012 | 02 | 20.57514 | 12 | 11 | 58.22 | +08 | 45 | 04.7 | 17.1 | VuED037379 |
| K11Y15V | C2012 | 02 | 20.58273 | 12 | 11 | 58.67 | +08 | 44 | 53.7 | 16.8 | VuED037379 |
| K11Y15V | C2012 | 02 | 20.61586 | 12 | 12 | 00.68 | +08 | 44 | 08.5 | 16.6 | VuED037379 |
| K11Y15V | C2012 | 02 | 20.61771 | 12 | 12 | 00.74 | +08 | 44 | 06.1 | 16.7 | VuED037379 |
| K11Y15V | C2012 | 02 | 20.62345 | 12 | 12 | 01.11 | +08 | 43 | 58.0 | 16.5 | VuED037379 |
| K11Y15W | KC2012 | 02 | 20.27831810 | 51 | 22.56 | +36 | 47 | 13.9 | 22.9 | VoED037H21 | |
| K11Y15W | KC2012 | 02 | 20.29984610 | 51 | 20.85 | +36 | 46 | 56.9 | 23.0 | VoED037H21 | |
| K11Y15W | KC2012 | 02 | 20.32148310 | 51 | 19.09 | +36 | 46 | 40.1 | 22.6 | VoED037H21 | |
| K11Y62S | KC2012 | 02 | 20.10646 | 05 | 46 | 16.67 | +64 | 30 | 45.9 | 22.0 | VuED037H21 |
| K11Y62S | KC2012 | 02 | 20.11790 | 05 | 46 | 20.25 | +64 | 30 | 35.7 | 21.5 | VuED037H21 |
| K11Y62S | KC2012 | 02 | 20.14229 | 05 | 46 | 27.85 | +64 | 30 | 14.6 | 21.5 | VuED037H21 |
| K11Y63M | C2012 | 02 | 20.36316 | 12 | 50 | 01.20 | -08 | 34 | 53.3 | 19.6 | VoED037691 |
| K11Y63M | C2012 | 02 | 20.38109 | 12 | 50 | 04.16 | -08 | 35 | 25.6 | 19.6 | VoED037691 |
| K11Y63M | C2012 | 02 | 20.39901 | 12 | 50 | 07.11 | -08 | 35 | 57.4 | 19.7 | VoED037691 |
| K11Y74U | C2012 | 02 | 21.13479 | 05 | 45 | 54.99 | -31 | 02 | 58.4 | 18.5 | RoED037G48 |
| K11Y74U | C2012 | 02 | 21.13573 | 05 | 45 | 54.18 | -31 | 03 | 09.6 | 18.8 | RoED037G48 |
| K12A00X | KC2012 | 02 | 19.42912915 | 14 | 54.69 | +41 | 32 | 42.5 | 22.2 | VoED037H21 | |
| K12A00X | KC2012 | 02 | 19.44082515 | 14 | 54.48 | +41 | 32 | 07.4 | 22.1 | VoED037H21 | |
| K12A00X | KC2012 | 02 | 19.45635015 | 14 | 54.32 | +41 | 31 | 20.4 | 22.4 | VoED037H21 | |
| K12A00X | KC2012 | 02 | 20.45792415 | 14 | 59.37 | +40 | 41 | 00.9 | | | oED037H21 |
| K12A00X | KC2012 | 02 | 20.47032815 | 14 | 59.07 | +40 | 40 | 23.6 | 22.1 | VoED037H21 | |
| K12A11A | KC2012 | 02 | 17.84774 | 04 | 39 | 25.16 | +53 | 18 | 42.3 | 18.6 | RcED037A24 |
| K12A11A | KC2012 | 02 | 17.84919 | 04 | 39 | 25.28 | +53 | 18 | 42.5 | 18.9 | RcED037A24 |
| K12A11C | mC2012 | 02 | 21.18897 | 06 | 59 | 22.09 | -04 | 11 | 38.9 | | oED037291 |
| K12A11C | mC2012 | 02 | 21.19496 | 06 | 59 | 21.85 | -04 | 11 | 50.4 | | oED037291 |
| K12B14E | KC2012 | 02 | 20.09367807 | 37 | 42.89 | +49 | 06 | 07.0 | 23.0 | VoED037H21 | |
| K12B14E | KC2012 | 02 | 20.11444407 | 37 | 42.88 | +49 | 06 | 45.0 | 22.8 | VoED037H21 | |
| K12B14E | KC2012 | 02 | 20.13578207 | 37 | 42.93 | +49 | 07 | 24.6 | 22.6 | VoED037H21 | |
| K12B20C | C2012 | 02 | 20.47996 | 13 | 18 | 59.32 | +09 | 00 | 38.4 | 17.9 | VrED037703 |
| K12B20C | C2012 | 02 | 20.48787 | 13 | 19 | 00.58 | +09 | 01 | 06.4 | 18.1 | VrED037703 |
| K12B20C | C2012 | 02 | 20.49580 | 13 | 19 | 01.92 | +09 | 01 | 34.8 | 17.9 | VrED037703 |
| K12B20C | C2012 | 02 | 20.50365 | 13 | 19 | 03.21 | +09 | 02 | 02.7 | 18.0 | VrED037703 |
| K12B23T | C2012 | 02 | 20.23253 | 07 | 13 | 02.81 | -06 | 36 | 35.2 | 17.7 | RuED037H45 |
| K12B23T | C2012 | 02 | 20.23417 | 07 | 13 | 02.35 | -06 | 36 | 34.5 | 17.8 | RuED037H45 |
| K12B23T | C2012 | 02 | 20.24228 | 07 | 13 | 00.18 | -06 | 36 | 30.0 | 17.8 | RuED037H45 |
| K12B23T | C2012 | 02 | 20.25418 | 07 | 12 | 56.96 | -06 | 36 | 23.2 | 17.8 | RuED037H45 |
| K12B23T | C2012 | 02 | 20.26084 | 07 | 12 | 55.08 | -06 | 36 | 20.0 | 17.7 | RuED037H45 |
| K12B23T | C2012 | 02 | 20.26212 | 07 | 12 | 54.75 | -06 | 36 | 19.1 | 17.7 | RuED037H45 |
| K12B23T | KC2012 | 02 | 20.85921 | 07 | 10 | 18.71 | -06 | 30 | 47.5 | 16.8 | RwED037I99 |
| K12B23T | KC2012 | 02 | 20.86432 | 07 | 10 | 17.31 | -06 | 30 | 44.1 | 16.6 | RwED037I99 |
| K12B23T | KC2012 | 02 | 20.86937 | 07 | 10 | 15.86 | -06 | 30 | 42.2 | 17.2 | RwED037I99 |
| K12B23T | C2012 | 02 | 21.12674 | 07 | 09 | 07.31 | -06 | 28 | 05.5 | 18.2 | RoED037G48 |
| K12B23T | C2012 | 02 | 21.12770 | 07 | 09 | 07.05 | -06 | 28 | 04.9 | 18.4 | RoED037G48 |
| K12B23T | C2012 | 02 | 21.12861 | 07 | 09 | 06.79 | -06 | 28 | 04.2 | 18.0 | RoED037G48 |
| K12B23T | C2012 | 02 | 21.12956 | 07 | 09 | 06.49 | -06 | 28 | 04.1 | 17.8 | RoED037G48 |
| K12B23T | C2012 | 02 | 21.13050 | 07 | 09 | 06.26 | -06 | 28 | 03.4 | 17.9 | RoED037G48 |
| K12B77F | KC2012 | 02 | 19.39681212 | 50 | 11.25 | +46 | 47 | 26.1 | 22.2 | VoED037H21 | |
| K12B77F | KC2012 | 02 | 19.40673912 | 50 | 11.71 | +46 | 46 | 56.0 | | | oED037H21 |
| K12B77F | KC2012 | 02 | 19.41667812 | 50 | 12.20 | +46 | 46 | 25.2 | 21.6 | VoED037H21 | |
| K12B77F | KC2012 | 02 | 20.42979512 | 51 | 43.94 | +45 | 57 | 16.6 | 21.3 | VoED037H21 | |
| K12B77F | KC2012 | 02 | 20.43961112 | 51 | 44.23 | +45 | 56 | 46.1 | 21.4 | VoED037H21 | |
| K12B77F | KC2012 | 02 | 20.44968612 | 51 | 44.57 | +45 | 56 | 15.2 | 21.7 | VoED037H21 | |
| K12B86J | C2012 | 02 | 21.19675 | 06 | 53 | 29.54 | +21 | 37 | 35.0 | 21.2 | RoED037H01 |

| | | | | | | | | | | | |
|---------|--------|----|-------------|----|--------|--------|-----|-------|-------|------------|------------|
| K12B86J | C2012 | 02 | 21.20712 | 06 | 53 | 31.99 | +21 | 37 | 31.2 | 21.1 | RoED037H01 |
| K12B86J | C2012 | 02 | 21.21374 | 06 | 53 | 33.52 | +21 | 37 | 28.2 | 21.3 | RoED037H01 |
| K12B86J | C2012 | 02 | 21.22491 | 06 | 53 | 36.16 | +21 | 37 | 24.0 | 21.1 | RoED037H01 |
| K12BC4B | JC2012 | 02 | 20.34181 | 08 | 54 | 10.73 | +30 | 39 | 43.9 | 18.9 | RoED037695 |
| K12BC4B | JC2012 | 02 | 20.34397 | 08 | 54 | 10.38 | +30 | 39 | 52.8 | 18.9 | RoED037695 |
| K12BC4B | JC2012 | 02 | 20.34596 | 08 | 54 | 10.04 | +30 | 40 | 01.6 | 19.0 | RoED037695 |
| K12BC4B | JC2012 | 02 | 20.34796 | 08 | 54 | 09.73 | +30 | 40 | 09.4 | 19.0 | RoED037695 |
| K12BD4J | C2012 | 02 | 19.86557 | 10 | 56 | 44.16 | +16 | 03 | 04.0 | 16.7 | VuED037C39 |
| K12BD4J | C2012 | 02 | 19.89324 | 10 | 56 | 40.61 | +16 | 04 | 32.1 | 17.2 | VuED037C39 |
| K12BD4J | C2012 | 02 | 20.19260 | 10 | 56 | 02.41 | +16 | 20 | 49.2 | 18.0 | RuED037H23 |
| K12BD4J | C2012 | 02 | 20.20711 | 10 | 56 | 00.48 | +16 | 21 | 37.3 | 18.3 | RuED037H23 |
| K12BD4J | C2012 | 02 | 20.22167 | 10 | 55 | 58.47 | +16 | 22 | 24.8 | 18.1 | RuED037H23 |
| K12BD4J | C2012 | 02 | 21.15289 | 10 | 53 | 53.86 | +17 | 14 | 31.6 | 17.7 | RoED037G48 |
| K12BD4J | C2012 | 02 | 21.15344 | 10 | 53 | 53.79 | +17 | 14 | 33.2 | 17.7 | RoED037G48 |
| K12BD4J | C2012 | 02 | 21.15397 | 10 | 53 | 53.71 | +17 | 14 | 35.5 | 17.7 | RoED037G48 |
| K12BD4J | C2012 | 02 | 21.15451 | 10 | 53 | 53.61 | +17 | 14 | 37.1 | 17.7 | RoED037G48 |
| K12BD4J | C2012 | 02 | 21.15506 | 10 | 53 | 53.55 | +17 | 14 | 39.1 | 17.8 | RoED037G48 |
| K12C17C | KC2012 | 02 | 20.25988 | 09 | 03 | 24.34 | +32 | 51 | 51.7 | 19.9 | VuED037H21 |
| K12C17C | KC2012 | 02 | 20.26246 | 09 | 03 | 23.85 | +32 | 51 | 48.9 | 19.7 | VuED037H21 |
| K12C17C | KC2012 | 02 | 20.26505 | 09 | 03 | 23.38 | +32 | 51 | 45.7 | 19.8 | VuED037H21 |
| K12C17C | KC2012 | 02 | 20.26763 | 09 | 03 | 22.92 | +32 | 51 | 42.8 | 19.7 | VuED037H21 |
| K12C17C | KC2012 | 02 | 20.27022 | 09 | 03 | 22.45 | +32 | 51 | 39.8 | 19.9 | VuED037H21 |
| K12C17C | KC2012 | 02 | 20.27216 | 09 | 03 | 22.08 | +32 | 51 | 37.5 | 19.8 | VuED037H21 |
| K12C17C | KC2012 | 02 | 20.87927 | 09 | 01 | 39.11 | +32 | 39 | 50.7 | 19.4 | VuED037A74 |
| K12C17C | KC2012 | 02 | 20.88995 | 09 | 01 | 37.16 | +32 | 39 | 38.3 | 19.3 | VuED037A74 |
| K12C17C | KC2012 | 02 | 20.90063 | 09 | 01 | 35.21 | +32 | 39 | 26.1 | 19.3 | VuED037A74 |
| K12C17C | C2012 | 02 | 21.00613 | 09 | 01 | 18.24 | +32 | 37 | 20.3 | | uED037I15 |
| K12C17C | C2012 | 02 | 21.00830 | 09 | 01 | 17.85 | +32 | 37 | 18.0 | | uED037I15 |
| K12C17C | C2012 | 02 | 21.01046 | 09 | 01 | 17.50 | +32 | 37 | 15.8 | | uED037I15 |
| K12C21A | KC2012 | 02 | 20.01936503 | 04 | 27.99 | +15 | 44 | 08.9 | 20.0 | VrED037H21 | |
| K12C21A | KC2012 | 02 | 20.02630203 | 04 | 27.66 | +15 | 44 | 46.1 | 20.1 | VrED037H21 | |
| K12C21A | KC2012 | 02 | 20.03039603 | 04 | 27.48 | +15 | 45 | 08.0 | 20.0 | VrED037H21 | |
| K12C21A | mC2012 | 02 | 21.11056 | 03 | 03 | 45.18 | +17 | 21 | 57.5 | | oED037291 |
| K12C21A | mC2012 | 02 | 21.11277 | 03 | 03 | 45.08 | +17 | 22 | 09.8 | | oED037291 |
| K12C21A | mC2012 | 02 | 21.11501 | 03 | 03 | 44.98 | +17 | 22 | 21.4 | | oED037291 |
| K12C29D | C2012 | 02 | 20.44627 | 11 | 57 | 49.084 | +19 | 39 | 07.00 | 18.9 | wLED037F51 |
| K12C29D | C2012 | 02 | 20.46148 | 11 | 57 | 48.317 | +19 | 40 | 44.14 | 18.9 | wLED037F51 |
| K12C29D | C2012 | 02 | 20.49217 | 11 | 57 | 46.727 | +19 | 44 | 00.41 | 19.0 | wLED037F51 |
| K12C29D | C2012 | 02 | 21.18863 | 11 | 57 | 20.61 | +21 | 00 | 26.1 | 17.0 | RoED037G48 |
| K12C29D | C2012 | 02 | 21.18957 | 11 | 57 | 20.54 | +21 | 00 | 32.8 | 17.2 | RoED037G48 |
| K12C29D | C2012 | 02 | 21.19054 | 11 | 57 | 20.50 | +21 | 00 | 39.7 | 17.0 | RoED037G48 |
| K12C29D | C2012 | 02 | 21.19154 | 11 | 57 | 20.43 | +21 | 00 | 46.1 | 17.0 | RoED037G48 |
| K12C29D | C2012 | 02 | 21.19249 | 11 | 57 | 20.39 | +21 | 00 | 53.0 | 17.0 | RoED037G48 |
| K12C29M | C2012 | 02 | 20.43860 | 11 | 39 | 59.982 | +14 | 15 | 07.09 | 20.7 | wLED037F51 |
| K12C29M | C2012 | 02 | 20.45372 | 11 | 40 | 01.720 | +14 | 15 | 24.92 | 20.8 | wLED037F51 |
| K12C29M | C2012 | 02 | 20.46902 | 11 | 40 | 03.471 | +14 | 15 | 42.31 | 20.8 | wLED037F51 |
| K12C46N | KC2012 | 02 | 20.16029908 | 58 | 45.79 | +23 | 26 | 42.3 | 22.1 | VoED037H21 | |
| K12C46N | KC2012 | 02 | 20.17726608 | 58 | 46.17 | +23 | 26 | 51.1 | 22.1 | VoED037H21 | |
| K12C46N | KC2012 | 02 | 20.19465508 | 58 | 46.51 | +23 | 26 | 59.8 | 22.3 | VoED037H21 | |
| K12C46O | 2C2012 | 02 | 16.35536910 | 20 | 44.834 | +16 | 35 | 25.96 | 20.1 | RoED037568 | |
| K12C46O | 2C2012 | 02 | 16.35662010 | 20 | 44.665 | +16 | 35 | 25.93 | 19.8 | RoED037568 | |
| K12C46O | 2C2012 | 02 | 16.35787410 | 20 | 44.485 | +16 | 35 | 25.95 | 19.8 | RoED037568 | |
| K12D00N | KC2012 | 02 | 20.34805 | 10 | 57 | 13.06 | +15 | 16 | 04.5 | 20.9 | VtED037H21 |
| K12D00N | KC2012 | 02 | 20.36368 | 10 | 57 | 11.81 | +15 | 16 | 20.7 | 21.0 | VtED037H21 |
| K12D00N | KC2012 | 02 | 20.37932 | 10 | 57 | 10.52 | +15 | 16 | 36.6 | 21.2 | VtED037H21 |
| K12D00O | C2012 | 02 | 20.02392 | 08 | 58 | 08.89 | -33 | 21 | 39.0 | 18.3 | VoED037807 |
| K12D00O | C2012 | 02 | 20.02565 | 08 | 58 | 09.09 | -33 | 21 | 40.9 | 18.6 | VoED037807 |
| K12D00O | C2012 | 02 | 20.02737 | 08 | 58 | 09.32 | -33 | 21 | 43.1 | 18.6 | VoED037807 |
| K12D00O | C2012 | 02 | 20.02874 | 08 | 58 | 09.50 | -33 | 21 | 44.8 | 18.8 | VoED037807 |
| K12D00O | C2012 | 02 | 21.19432 | 09 | 01 | 00.93 | -33 | 43 | 43.3 | 19.1 | RoED037G48 |
| K12D00O | C2012 | 02 | 21.19487 | 09 | 01 | 01.01 | -33 | 43 | 43.6 | 18.6 | RoED037G48 |

| | | | | | | | | | | | |
|---------|--------|----|----------|----|----|-------|-----|----|------|------|------------|
| K12D000 | C2012 | 02 | 21.19542 | 09 | 01 | 01.08 | -33 | 43 | 44.4 | 18.7 | RoED037G48 |
| K12D000 | C2012 | 02 | 21.19597 | 09 | 01 | 01.17 | -33 | 43 | 44.6 | 18.9 | RoED037G48 |
| K12D000 | C2012 | 02 | 21.19652 | 09 | 01 | 01.22 | -33 | 43 | 45.0 | 18.9 | RoED037G48 |
| K12D000 | C2012 | 02 | 21.19705 | 09 | 01 | 01.34 | -33 | 43 | 45.5 | 18.7 | RoED037G48 |
| K12D00X | tC2012 | 02 | 20.45639 | 12 | 16 | 30.17 | +33 | 43 | 20.8 | 18.2 | VtED037H21 |
| K12D00X | tC2012 | 02 | 20.45913 | 12 | 16 | 44.83 | +33 | 42 | 37.8 | 18.2 | VtED037H21 |
| K12D00X | tC2012 | 02 | 20.46186 | 12 | 16 | 59.50 | +33 | 41 | 54.7 | 18.4 | VtED037H21 |
| K12D00Y | KC2012 | 02 | 20.33068 | 10 | 34 | 25.36 | +11 | 49 | 25.1 | 19.6 | VtED037H21 |
| K12D00Y | KC2012 | 02 | 20.33429 | 10 | 34 | 31.31 | +11 | 49 | 37.1 | 19.4 | VtED037H21 |
| K12D00Y | KC2012 | 02 | 20.33791 | 10 | 34 | 37.28 | +11 | 49 | 48.9 | 19.3 | VtED037H21 |
| K12D00Z | KC2012 | 02 | 20.30090 | 10 | 18 | 41.90 | +07 | 15 | 44.9 | 18.5 | VtED037H21 |
| K12D00Z | KC2012 | 02 | 20.30349 | 10 | 18 | 43.97 | +07 | 15 | 11.0 | 18.6 | VtED037H21 |
| K12D00Z | KC2012 | 02 | 20.30605 | 10 | 18 | 46.04 | +07 | 14 | 37.5 | 18.7 | VtED037H21 |
| K12D00Z | KC2012 | 02 | 20.30884 | 10 | 18 | 48.30 | +07 | 14 | 00.8 | 18.7 | VtED037H21 |
| K12D00Z | KC2012 | 02 | 20.31156 | 10 | 18 | 50.49 | +07 | 13 | 25.2 | 18.6 | VtED037H21 |
| 01036 | C2012 | 02 | 17.79163 | 03 | 50 | 09.82 | -03 | 25 | 48.0 | 13.3 | RcED037A24 |
| 01036 | C2012 | 02 | 17.79189 | 03 | 50 | 09.84 | -03 | 25 | 47.9 | 13.2 | RcED037A24 |
| 01036 | C2012 | 02 | 17.84028 | 03 | 50 | 14.05 | -03 | 25 | 25.8 | 13.3 | RcED037A24 |
| 01036 | C2012 | 02 | 17.84054 | 03 | 50 | 14.07 | -03 | 25 | 25.4 | 13.2 | RcED037A24 |
| 01620 | C2012 | 02 | 17.80170 | 04 | 43 | 16.05 | +37 | 55 | 59.3 | 16.8 | RcED037A24 |
| 01620 | C2012 | 02 | 17.80243 | 04 | 43 | 16.09 | +37 | 55 | 58.6 | 16.8 | RcED037A24 |
| 01620 | C2012 | 02 | 17.85034 | 04 | 43 | 18.46 | +37 | 55 | 14.1 | 17.1 | RcED037A24 |
| 01620 | C2012 | 02 | 17.85106 | 04 | 43 | 18.48 | +37 | 55 | 13.4 | 17.4 | RcED037A24 |
| 01627 | C2012 | 02 | 17.81478 | 06 | 24 | 58.34 | +19 | 20 | 56.9 | 16.7 | RcED037A24 |
| 01627 | C2012 | 02 | 17.81550 | 06 | 24 | 58.32 | +19 | 20 | 57.0 | 16.6 | RcED037A24 |
| 01627 | C2012 | 02 | 17.86279 | 06 | 24 | 57.30 | +19 | 21 | 07.6 | 16.8 | RcED037A24 |
| 01627 | C2012 | 02 | 17.86351 | 06 | 24 | 57.29 | +19 | 21 | 07.7 | 16.9 | RcED037A24 |
| 01864 | C2012 | 02 | 20.33600 | 19 | 20 | 35.38 | -34 | 35 | 51.3 | 16.2 | RoED037I47 |
| 01864 | C2012 | 02 | 20.34031 | 19 | 20 | 37.15 | -34 | 35 | 49.2 | 16.0 | RoED037I47 |
| 01864 | C2012 | 02 | 20.34896 | 19 | 20 | 40.77 | -34 | 35 | 46.3 | 15.6 | RoED037I47 |
| 01864 | C2012 | 02 | 20.35220 | 19 | 20 | 42.17 | -34 | 35 | 45.1 | 16.3 | RoED037I47 |
| 01864 | C2012 | 02 | 20.35436 | 19 | 20 | 42.98 | -34 | 35 | 44.1 | 16.2 | RoED037I47 |
| 01866 | C2012 | 02 | 17.77402 | 02 | 24 | 28.41 | +41 | 59 | 06.3 | 15.1 | RcED037A24 |
| 01866 | C2012 | 02 | 17.77474 | 02 | 24 | 28.54 | +41 | 59 | 07.2 | 15.1 | RcED037A24 |
| 01866 | C2012 | 02 | 17.82266 | 02 | 24 | 36.13 | +42 | 00 | 05.9 | 15.1 | RcED037A24 |
| 01866 | C2012 | 02 | 17.82339 | 02 | 24 | 36.24 | +42 | 00 | 06.8 | 15.1 | RcED037A24 |
| 01943 | KC2012 | 02 | 17.78622 | 03 | 15 | 40.98 | +14 | 30 | 20.1 | 18.4 | RcED037A24 |
| 01943 | KC2012 | 02 | 17.78766 | 03 | 15 | 41.11 | +14 | 30 | 20.2 | 18.3 | RcED037A24 |
| 01943 | KC2012 | 02 | 17.80328 | 03 | 15 | 42.64 | +14 | 30 | 23.8 | 18.6 | RcED037A24 |
| 01943 | KC2012 | 02 | 17.81926 | 03 | 15 | 44.20 | +14 | 30 | 27.3 | 18.7 | RcED037A24 |
| 01943 | KC2012 | 02 | 17.83487 | 03 | 15 | 45.72 | +14 | 30 | 30.7 | 18.5 | RcED037A24 |
| 02368 | KC2012 | 02 | 17.81661 | 06 | 27 | 11.20 | +22 | 31 | 06.8 | 18.9 | RcED037A24 |
| 02368 | KC2012 | 02 | 17.81806 | 06 | 27 | 11.14 | +22 | 31 | 06.1 | 19.1 | RcED037A24 |
| 02368 | KC2012 | 02 | 17.83346 | 06 | 27 | 10.98 | +22 | 31 | 05.3 | 19.4 | RcED037A24 |
| 02368 | KC2012 | 02 | 17.84923 | 06 | 27 | 10.79 | +22 | 31 | 04.1 | 19.4 | RcED037A24 |
| 02368 | KC2012 | 02 | 17.86464 | 06 | 27 | 10.62 | +22 | 31 | 03.1 | 18.8 | RcED037A24 |
| 02368 | KC2012 | 02 | 17.86609 | 06 | 27 | 10.57 | +22 | 31 | 02.1 | 18.9 | RcED037A24 |
| 06053 | C2012 | 02 | 20.40232 | 11 | 10 | 00.87 | -12 | 00 | 30.8 | 18.1 | VrED037703 |
| 06053 | C2012 | 02 | 20.41035 | 11 | 10 | 00.19 | -12 | 00 | 31.0 | 18.1 | VrED037703 |
| 06053 | C2012 | 02 | 20.41839 | 11 | 09 | 59.47 | -12 | 00 | 30.8 | 17.9 | VrED037703 |
| 06053 | C2012 | 02 | 20.42632 | 11 | 09 | 58.78 | -12 | 00 | 30.4 | 17.9 | VrED037703 |
| 07358 | C2012 | 02 | 17.78437 | 03 | 05 | 03.08 | +17 | 25 | 19.0 | 17.1 | RcED037A24 |
| 07358 | C2012 | 02 | 17.78509 | 03 | 05 | 03.13 | +17 | 25 | 19.4 | 17.4 | RcED037A24 |
| 07358 | C2012 | 02 | 17.83303 | 03 | 05 | 11.31 | +17 | 25 | 44.6 | 17.3 | RcED037A24 |
| 07358 | C2012 | 02 | 17.83375 | 03 | 05 | 11.41 | +17 | 25 | 44.9 | 17.3 | RcED037A24 |
| 07889 | C2012 | 02 | 21.03097 | 01 | 45 | 05.97 | +06 | 03 | 31.6 | | uED037I15 |
| 07889 | C2012 | 02 | 21.03251 | 01 | 45 | 06.27 | +06 | 03 | 39.6 | | uED037I15 |
| 07889 | C2012 | 02 | 21.03406 | 01 | 45 | 06.48 | +06 | 03 | 46.5 | | uED037I15 |
| 08567 | KC2012 | 02 | 15.84690 | 05 | 24 | 08.49 | +11 | 40 | 03.8 | 17.6 | RcED037A24 |
| 08567 | KC2012 | 02 | 15.84834 | 05 | 24 | 08.54 | +11 | 40 | 04.8 | 17.6 | RcED037A24 |
| 08567 | KC2012 | 02 | 17.80669 | 05 | 25 | 45.50 | +11 | 55 | 49.3 | 18.0 | RcED037A24 |

| | | | | | | | | | | | |
|-------|--------|----|-------------|----|-------|--------|-----|------|-------|------------|------------|
| 08567 | KC2012 | 02 | 17.80814 | 05 | 25 | 45.60 | +11 | 55 | 49.9 | 18.0 | RcED037A24 |
| 08567 | KC2012 | 02 | 17.82375 | 05 | 25 | 46.37 | +11 | 55 | 57.4 | 18.1 | RcED037A24 |
| 08567 | KC2012 | 02 | 17.83973 | 05 | 25 | 47.14 | +11 | 56 | 04.9 | 17.9 | RcED037A24 |
| 08567 | KC2012 | 02 | 17.85535 | 05 | 25 | 47.89 | +11 | 56 | 12.5 | 17.8 | RcED037A24 |
| 08567 | KC2012 | 02 | 17.85679 | 05 | 25 | 47.99 | +11 | 56 | 13.1 | 18.2 | RcED037A24 |
| 09400 | C2012 | 02 | 20.33814 | 13 | 04 | 57.82 | +06 | 07 | 32.5 | 17.5 | cED037704 |
| 09400 | C2012 | 02 | 20.35014 | 13 | 04 | 56.62 | +06 | 07 | 28.1 | 17.9 | cED037704 |
| 09400 | C2012 | 02 | 20.36219 | 13 | 04 | 55.46 | +06 | 07 | 24.4 | 18.0 | cED037704 |
| 09400 | C2012 | 02 | 20.37414 | 13 | 04 | 54.29 | +06 | 07 | 20.3 | 18.0 | cED037704 |
| 09400 | C2012 | 02 | 20.38607 | 13 | 04 | 53.11 | +06 | 07 | 16.5 | 18.2 | cED037704 |
| 09400 | C2012 | 02 | 20.48219 | 13 | 04 | 43.60 | +06 | 06 | 43.5 | 17.7 | VrED037703 |
| 09400 | C2012 | 02 | 20.49008 | 13 | 04 | 42.88 | +06 | 06 | 40.9 | 17.6 | VrED037703 |
| 09400 | C2012 | 02 | 20.49807 | 13 | 04 | 42.06 | +06 | 06 | 38.3 | 17.8 | VrED037703 |
| 09400 | C2012 | 02 | 20.50597 | 13 | 04 | 41.30 | +06 | 06 | 35.8 | 17.6 | VrED037703 |
| 24475 | C2012 | 02 | 17.81156 | 06 | 44 | 23.55 | +74 | 42 | 46.9 | 16.0 | RcED037A24 |
| 24475 | C2012 | 02 | 17.81228 | 06 | 44 | 23.96 | +74 | 42 | 46.8 | 15.8 | RcED037A24 |
| 24475 | C2012 | 02 | 17.85958 | 06 | 44 | 55.50 | +74 | 42 | 24.4 | 16.1 | RcED037A24 |
| 24475 | C2012 | 02 | 17.86030 | 06 | 44 | 55.83 | +74 | 42 | 24.1 | 16.1 | RcED037A24 |
| 29075 | C2012 | 02 | 17.80936 | 05 | 37 | 38.40 | +46 | 42 | 25.7 | 17.5 | RcED037A24 |
| 29075 | C2012 | 02 | 17.81008 | 05 | 37 | 38.36 | +46 | 42 | 24.8 | 17.7 | RcED037A24 |
| 29075 | C2012 | 02 | 17.85801 | 05 | 37 | 33.48 | +46 | 41 | 24.1 | 17.2 | RcED037A24 |
| 29075 | C2012 | 02 | 17.85874 | 05 | 37 | 33.41 | +46 | 41 | 23.6 | 17.4 | RcED037A24 |
| 36284 | KC2012 | 02 | 17.77141 | 02 | 07 | 40.65 | +61 | 26 | 00.2 | 18.5 | RcED037A24 |
| 36284 | KC2012 | 02 | 17.77285 | 02 | 07 | 41.02 | +61 | 25 | 58.9 | 18.1 | RcED037A24 |
| 36284 | KC2012 | 02 | 17.78846 | 02 | 07 | 44.24 | +61 | 25 | 47.9 | 18.7 | RcED037A24 |
| 36284 | KC2012 | 02 | 17.80444 | 02 | 07 | 47.54 | +61 | 25 | 36.6 | 18.8 | RcED037A24 |
| 36284 | KC2012 | 02 | 17.82006 | 02 | 07 | 50.82 | +61 | 25 | 25.8 | 18.4 | RcED037A24 |
| 36284 | KC2012 | 02 | 17.82149 | 02 | 07 | 51.12 | +61 | 25 | 25.5 | 18.3 | RcED037A24 |
| 42286 | KC2012 | 02 | 17.77589 | 02 | 34 | 09.48 | +33 | 16 | 20.3 | 18.1 | RcED037A24 |
| 42286 | KC2012 | 02 | 17.79295 | 02 | 34 | 11.11 | +33 | 16 | 30.8 | 18.6 | RcED037A24 |
| 42286 | KC2012 | 02 | 17.80892 | 02 | 34 | 12.49 | +33 | 16 | 42.9 | 18.3 | RcED037A24 |
| 42286 | KC2012 | 02 | 17.82454 | 02 | 34 | 13.92 | +33 | 16 | 52.4 | 18.8 | RcED037A24 |
| 99942 | KC2012 | 02 | 20.03941002 | 55 | 42.01 | +11 | 29 | 37.3 | 20.2 | VrED037H21 | |
| 99942 | KC2012 | 02 | 20.04634102 | 55 | 43.71 | +11 | 29 | 44.9 | 20.3 | VrED037H21 | |
| D7802 | C2012 | 02 | 20.44832 | 11 | 30 | 55.83 | +44 | 19 | 27.7 | 19.2 | VrED037703 |
| D7802 | C2012 | 02 | 20.45661 | 11 | 30 | 55.15 | +44 | 19 | 38.2 | 18.9 | VrED037703 |
| D7802 | C2012 | 02 | 20.46490 | 11 | 30 | 54.32 | +44 | 19 | 49.8 | 19.3 | VrED037703 |
| D7802 | C2012 | 02 | 20.47319 | 11 | 30 | 53.64 | +44 | 19 | 59.1 | 19.2 | VrED037703 |
| D7805 | KC2012 | 02 | 17.77883 | 02 | 41 | 19.43 | +37 | 27 | 21.2 | 18.3 | RcED037A24 |
| D7805 | KC2012 | 02 | 17.78027 | 02 | 41 | 19.64 | +37 | 27 | 20.8 | 18.5 | RcED037A24 |
| D7805 | KC2012 | 02 | 17.79588 | 02 | 41 | 22.42 | +37 | 27 | 16.7 | 18.5 | RcED037A24 |
| D7805 | KC2012 | 02 | 17.81186 | 02 | 41 | 25.22 | +37 | 27 | 12.7 | 18.7 | RcED037A24 |
| D7805 | KC2012 | 02 | 17.82748 | 02 | 41 | 27.97 | +37 | 27 | 08.6 | 18.5 | RcED037A24 |
| D7805 | KC2012 | 02 | 17.82892 | 02 | 41 | 28.16 | +37 | 27 | 08.2 | 18.7 | RcED037A24 |
| D8524 | C2012 | 02 | 20.21389 | 08 | 13 | 42.65 | +04 | 59 | 16.7 | 18.0 | cED037704 |
| D8524 | C2012 | 02 | 20.22581 | 08 | 13 | 42.50 | +04 | 59 | 26.0 | 18.2 | cED037704 |
| D8524 | C2012 | 02 | 20.23774 | 08 | 13 | 42.36 | +04 | 59 | 32.6 | 18.1 | cED037704 |
| D8524 | C2012 | 02 | 20.24982 | 08 | 13 | 42.23 | +04 | 59 | 41.3 | 18.2 | cED037704 |
| D8524 | C2012 | 02 | 20.26224 | 08 | 13 | 42.10 | +04 | 59 | 49.7 | 18.1 | cED037704 |
| E3651 | C2012 | 02 | 20.26348 | 08 | 16 | 48.30 | +42 | 25 | 20.5 | 18.6 | RuED037H45 |
| E3651 | C2012 | 02 | 20.26502 | 08 | 16 | 48.13 | +42 | 25 | 20.6 | 18.5 | RuED037H45 |
| E3651 | C2012 | 02 | 20.26650 | 08 | 16 | 47.97 | +42 | 25 | 21.2 | 18.4 | RuED037H45 |
| E3651 | C2012 | 02 | 20.26913 | 08 | 16 | 47.67 | +42 | 25 | 21.3 | 18.5 | RuED037H45 |
| E3651 | C2012 | 02 | 20.27194 | 08 | 16 | 47.36 | +42 | 25 | 22.1 | 18.4 | RuED037H45 |
| G2038 | C2012 | 02 | 20.26924 | 09 | 20 | 47.46 | +04 | 47 | 03.4 | 19.0 | cED037704 |
| G2038 | C2012 | 02 | 20.28123 | 09 | 20 | 46.07 | +04 | 47 | 02.4 | 19.3 | cED037704 |
| G2038 | C2012 | 02 | 20.29317 | 09 | 20 | 44.71 | +04 | 47 | 01.7 | 19.3 | cED037704 |
| G2038 | C2012 | 02 | 20.30510 | 09 | 20 | 43.36 | +04 | 47 | 00.6 | 19.3 | cED037704 |
| H1819 | C2012 | 02 | 20.45217 | 12 | 21 | 44.605 | +10 | 54 | 21.94 | 20.1 | wLED037F51 |
| H1819 | C2012 | 02 | 20.46744 | 12 | 21 | 43.660 | +10 | 54 | 25.11 | 20.2 | wLED037F51 |
| H1819 | C2012 | 02 | 20.48275 | 12 | 21 | 42.752 | +10 | 54 | 28.40 | 20.1 | wLED037F51 |

| | | | | | | | | | | |
|-------|--------|----|----------|----|----|-----------|----|-------|------|------------|
| H1819 | C2012 | 02 | 20.49814 | 12 | 21 | 41.816+10 | 54 | 31.93 | 20.0 | wLED037F51 |
| H2722 | KC2012 | 02 | 20.88725 | 10 | 47 | 52.00 +08 | 54 | 24.0 | 19.0 | VuED037A13 |
| H2722 | KC2012 | 02 | 20.90564 | 10 | 47 | 49.81 +08 | 54 | 34.7 | 19.6 | VuED037A13 |
| H2722 | KC2012 | 02 | 20.92397 | 10 | 47 | 47.68 +08 | 54 | 44.5 | 20.3 | VuED037A13 |
| J2642 | C2012 | 02 | 20.26849 | 09 | 07 | 59.61 +07 | 14 | 06.4 | 14.9 | cED037704 |
| J2642 | C2012 | 02 | 20.28043 | 09 | 07 | 56.06 +07 | 13 | 57.9 | 14.9 | cED037704 |
| J2642 | C2012 | 02 | 20.29244 | 09 | 07 | 52.46 +07 | 13 | 49.2 | 15.1 | cED037704 |
| J2642 | C2012 | 02 | 20.30437 | 09 | 07 | 48.86 +07 | 13 | 40.9 | 15.2 | cED037704 |
| J2642 | C2012 | 02 | 20.31643 | 09 | 07 | 45.28 +07 | 13 | 32.5 | 15.2 | cED037704 |
| J2642 | C2012 | 02 | 20.54906 | 09 | 06 | 38.25 +07 | 10 | 46.4 | 15.0 | VuED037379 |
| J2642 | C2012 | 02 | 20.55091 | 09 | 06 | 37.70 +07 | 10 | 45.1 | 15.0 | VuED037379 |
| J2642 | C2012 | 02 | 20.55483 | 09 | 06 | 36.50 +07 | 10 | 42.2 | 14.7 | VuED037379 |
| J2642 | C2012 | 02 | 20.55668 | 09 | 06 | 35.96 +07 | 10 | 41.1 | 14.9 | VuED037379 |
| J2642 | C2012 | 02 | 20.56244 | 09 | 06 | 34.21 +07 | 10 | 36.9 | 15.2 | VuED037379 |
| J2642 | C2012 | 02 | 20.56429 | 09 | 06 | 33.64 +07 | 10 | 35.5 | 15.2 | VuED037379 |
| J2642 | C2012 | 02 | 20.56615 | 09 | 06 | 33.08 +07 | 10 | 34.2 | 15.1 | VuED037379 |
| J2642 | C2012 | 02 | 21.05912 | 09 | 04 | 06.40 +07 | 04 | 30.1 | 15.2 | RuED037I15 |
| J2642 | C2012 | 02 | 21.06066 | 09 | 04 | 05.93 +07 | 04 | 28.9 | 15.2 | RuED037I15 |
| J2642 | C2012 | 02 | 21.06218 | 09 | 04 | 05.45 +07 | 04 | 27.8 | 15.2 | RuED037I15 |
| J2642 | C2012 | 02 | 21.10750 | 09 | 03 | 51.72 +07 | 03 | 56.7 | 14.6 | RrED037850 |
| J2642 | C2012 | 02 | 21.12562 | 09 | 03 | 46.02 +07 | 03 | 43.3 | 14.6 | RrED037850 |
| J2642 | C2012 | 02 | 21.14363 | 09 | 03 | 40.36 +07 | 03 | 29.9 | 14.8 | RrED037850 |
| K9924 | C2012 | 02 | 17.79561 | 04 | 08 | 19.13 -00 | 09 | 21.7 | 16.6 | RcED037A24 |
| K9924 | C2012 | 02 | 17.79633 | 04 | 08 | 19.26 -00 | 09 | 23.3 | 17.1 | RcED037A24 |
| K9924 | C2012 | 02 | 17.84426 | 04 | 08 | 29.12 -00 | 11 | 13.4 | 16.6 | RcED037A24 |
| K9924 | C2012 | 02 | 17.84498 | 04 | 08 | 29.37 -00 | 11 | 15.4 | 16.9 | RcED037A24 |
| T4739 | KC2012 | 02 | 17.78923 | 03 | 49 | 15.63 -01 | 58 | 07.3 | 18.0 | RcED037A24 |
| T4739 | KC2012 | 02 | 17.79073 | 03 | 49 | 16.05 -01 | 58 | 09.8 | 17.6 | RcED037A24 |
| T4739 | KC2012 | 02 | 17.80632 | 03 | 49 | 20.13 -01 | 58 | 33.8 | 17.6 | RcED037A24 |
| T4739 | KC2012 | 02 | 17.82229 | 03 | 49 | 24.31 -01 | 58 | 58.3 | 18.1 | RcED037A24 |
| T4739 | KC2012 | 02 | 17.83788 | 03 | 49 | 28.39 -01 | 59 | 21.6 | 18.0 | RcED037A24 |
| T4739 | KC2012 | 02 | 17.83938 | 03 | 49 | 28.74 -01 | 59 | 23.8 | 17.6 | RcED037A24 |
| V1554 | KC2012 | 02 | 15.84386 | 05 | 17 | 24.18 -00 | 22 | 32.5 | 18.5 | RcED037A24 |
| V1554 | KC2012 | 02 | 15.84536 | 05 | 17 | 24.05 -00 | 22 | 26.1 | 18.1 | RcED037A24 |
| V1554 | KC2012 | 02 | 17.80368 | 05 | 15 | 51.80 +01 | 53 | 37.0 | 18.6 | RcED037A24 |
| V1554 | KC2012 | 02 | 17.80517 | 05 | 15 | 51.82 +01 | 53 | 42.7 | 18.8 | RcED037A24 |
| V1554 | KC2012 | 02 | 17.82076 | 05 | 15 | 51.05 +01 | 54 | 46.3 | 18.9 | RcED037A24 |
| V1554 | KC2012 | 02 | 17.83673 | 05 | 15 | 50.25 +01 | 55 | 51.8 | 18.9 | RcED037A24 |
| V1554 | KC2012 | 02 | 17.85232 | 05 | 15 | 49.46 +01 | 56 | 55.4 | 18.6 | RcED037A24 |
| V1554 | KC2012 | 02 | 17.85381 | 05 | 15 | 49.39 +01 | 57 | 00.7 | 18.3 | RcED037A24 |
| V1554 | C2012 | 02 | 20.16064 | 05 | 14 | 25.40 +04 | 30 | 16.2 | 18.9 | cED037704 |
| V1554 | C2012 | 02 | 20.17274 | 05 | 14 | 24.90 +04 | 31 | 03.2 | 19.0 | cED037704 |
| V1554 | C2012 | 02 | 20.18514 | 05 | 14 | 24.46 +04 | 31 | 51.2 | 18.7 | cED037704 |
| V1554 | C2012 | 02 | 20.19706 | 05 | 14 | 23.90 +04 | 32 | 37.2 | 18.6 | cED037704 |

A. U. Tomatic

(C) Copyright 2012 MPC

M.P.E.C. 2012-D37



[Read MPEC 2012-D36](#)



[Read MPEC 2012-D38](#)

Display

MPEC number:

Clear

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)