

GROUPS OF QUASICOMPLANAR ASTEROIDS CONSIDERED  
WITH RESPECT TO MUTUAL INCLINATIONS OF THEIR ORBITS

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Groups of quasicomplanar asteroids are determined by a new and very efficient way. Earlier, (1), we have made determination of groups of such asteroids by means of a criterion which stated that  $\Delta\Omega = |\Omega_k - \Omega_j|$  and  $\Delta i = |i_k - i_j|$  must be, simultaneously, less than an small value chosen in advance, for which the maximum previously taken upper limit was  $1^{\circ}.000$ . Here we have made use, for quasicomplanarity, of the mutual inclination  $I$  of the orbits of asteroids, which was computed by formulae from (2). The group of asteroids with quasicomplanar orbits consists of those which move in almost the same plane, so that inclinations between their orbits do not exceed some small value, which is taken here to have a maximum upper limit of  $0^{\circ}.500$ .

Orbital elements of asteroids were taken from (3). The circular orbit 330 and the orbit of asteroid 864, which is identical with the orbit of asteroid 1078, are not included in found groups.

A notably greater number of groups of quasicomplanar asteroids, and with more of asteroids in a group, was obtained by means of the results of previous paper (2), than it was the case in (1), which is a consequence of the new criterion applied in this work.

Computation made has shown that with the criterion  $I \leq 0^{\circ}.500$  there exist next numbers of groups: 1781 with three asteroids ( $j, k, l$ ) in group (Table I), 1068 with four asteroids ( $j, k, l, m$ ) in group (Table II), 443 with five asteroids ( $j, k, l, m, n$ ) in group (Table III), 120 with six asteroids ( $j, k, l, m, n, o$ ) in group (Table IV), 19 with seven asteroids ( $j, k, l, m, n, o, p$ ) in group (Table V) and one group with eight numerated asteroids (122, 379, 878, 993, 1389, 1443, 1635, 1774). Groups with nine and more asteroids, whose mutual inclinations of orbits do not exceed  $0^{\circ}.500$ , are not found.

With the criterion  $I \leq 0^{\circ}.300$  we have found the next numbers of groups: 247 with three asteroids in group (Table VI), 51 with four asteroids in group

(Table VII), 9 with five asteroids in group (Table VIII) and one group of six asteroids (108, 355, 659, 1135, 1267, 1381). With this criterion groups with seven and more asteroids do not exist.

With a third criterion  $I \leq 0.100$  we have found three groups of numbered asteroids (Table IX) with three asteroids in group, and with four and more asteroids there are no groups.

Computation was made on IBM 360/44 in the Mathematical Institute of S. R. of Serbia.

Newly determined groups could be useful for further studies and a better knowledge of the structure of asteroidal ring.

TABLE I

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 5                  | 53       | 301      | 24                 | 300      | 1669     | 39                 | 1533     | 1755     |
| 9                  | 53       | 931      | 24                 | 300      | 1686     | 39                 | 1732     | 1795     |
| 7                  | 882      | 1181     | 24                 | 468      | 551      | 42                 | 197      | 1294     |
| 9                  | 553      | 1185     | 24                 | 468      | 1074     | 43                 | 211      | 514      |
| 10                 | 549      | 763      | 24                 | 468      | 1686     | 43                 | 211      | 901      |
| 10                 | 549      | 985      | 24                 | 551      | 1686     | 43                 | 211      | 1057     |
| 10                 | 549      | 1643     | 24                 | 1074     | 1128     | 43                 | 211      | 1147     |
| 10                 | 763      | 985      | 24                 | 1074     | 1462     | 43                 | 211      | 1420     |
| 10                 | 1643     | 1785     | 24                 | 1074     | 1669     | 43                 | 395      | 901      |
| 11                 | 289      | 1577     | 24                 | 1074     | 1686     | 43                 | 395      | 1057     |
| 11                 | 1562     | 1648     | 24                 | 1462     | 1669     | 43                 | 395      | 1420     |
| 12                 | 284      | 1760     | 24                 | 1462     | 1686     | 43                 | 395      | 1661     |
| 16                 | 985      | 1094     | 24                 | 1669     | 1686     | 43                 | 514      | 901      |
| 16                 | 885      | 1076     | 26                 | 343      | 1378     | 43                 | 514      | 1147     |
| 16                 | 885      | 1245     | 26                 | 1202     | 1378     | 43                 | 901      | 1057     |
| 16                 | 1004     | 1245     | 27                 | 1156     | 1784     | 43                 | 901      | 1147     |
| 19                 | 263      | 586      | 29                 | 224      | 711      | 43                 | 901      | 1420     |
| 19                 | 263      | 1363     | 29                 | 389      | 711      | 43                 | 901      | 1661     |
| 19                 | 263      | 1442     | 29                 | 388      | 902      | 43                 | 1057     | 1420     |
| 19                 | 263      | 1793     | 29                 | 388      | 1121     | 43                 | 1147     | 1420     |
| 19                 | 570      | 586      | 29                 | 711      | 1121     | 43                 | 1420     | 1661     |
| 19                 | 570      | 1793     | 30                 | 228      | 1007     | 44                 | 662      | 1111     |
| 19                 | 586      | 1442     | 32                 | 1060     | 1328     | 44                 | 662      | 1513     |
| 19                 | 586      | 1793     | 33                 | 73       | 91       | 44                 | 738      | 1111     |
| 19                 | 1289     | 1536     | 33                 | 73       | 1204     | 44                 | 1111     | 1513     |
| 19                 | 1363     | 1442     | 33                 | 73       | 1610     | 46                 | 878      | 1389     |
| 19                 | 1363     | 1793     | 33                 | 91       | 208      | 46                 | 878      | 1443     |
| 19                 | 1442     | 1793     | 33                 | 91       | 1204     | 46                 | 1335     | 1394     |
| 20                 | 656      | 822      | 33                 | 91       | 1610     | 46                 | 1389     | 1443     |
| 20                 | 656      | 1229     | 33                 | 208      | 1204     | 47                 | 75       | 571      |
| 20                 | 656      | 1638     | 33                 | 208      | 1610     | 47                 | 75       | 1080     |
| 20                 | 822      | 848      | 33                 | 435      | 1204     | 47                 | 75       | 1541     |
| 20                 | 822      | 1229     | 33                 | 1204     | 1610     | 47                 | 75       | 1790     |
| 20                 | 822      | 1363     | 35                 | 337      | 356      | 47                 | 422      | 497      |
| 20                 | 822      | 1638     | 35                 | 337      | 613      | 47                 | 422      | 802      |
| 20                 | 822      | 1672     | 35                 | 356      | 829      | 47                 | 422      | 1188     |
| 20                 | 848      | 1229     | 37                 | 66       | 302      | 47                 | 497      | 571      |
| 20                 | 848      | 1363     | 37                 | 66       | 615      | 47                 | 497      | 802      |
| 20                 | 848      | 1672     | 37                 | 66       | 1183     | 47                 | 497      | 1080     |
| 20                 | 1229     | 1363     | 37                 | 66       | 1225     | 47                 | 497      | 1188     |
| 20                 | 1229     | 1672     | 37                 | 66       | 1470     | 47                 | 497      | 1541     |
| 21                 | 311      | 367      | 37                 | 66       | 1768     | 47                 | 571      | 802      |
| 21                 | 311      | 449      | 37                 | 302      | 1225     | 47                 | 571      | 1188     |
| 21                 | 311      | 1397     | 37                 | 302      | 1768     | 47                 | 571      | 1541     |
| 21                 | 311      | 1745     | 37                 | 615      | 1183     | 47                 | 571      | 1790     |
| 21                 | 367      | 449      | 37                 | 615      | 1225     | 47                 | 802      | 1188     |
| 21                 | 367      | 1745     | 37                 | 1183     | 1225     | 47                 | 1080     | 1188     |
| 21                 | 449      | 1745     | 37                 | 1183     | 1768     | 47                 | 1080     | 1541     |
| 21                 | 1597     | 1745     | 37                 | 1225     | 1768     | 47                 | 1080     | 1790     |
| 24                 | 300      | 468      | 39                 | 251      | 1403     | 47                 | 1188     | 1541     |
| 24                 | 300      | 551      | 39                 | 251      | 1533     | 47                 | 1188     | 1790     |
| 24                 | 300      | 1074     | 39                 | 251      | 1732     | 47                 | 1541     | 1790     |
| 24                 | 300      | 1128     | 39                 | 251      | 1755     | 48                 | 239      | 533      |
| 24                 | 300      | 1462     | 39                 | 1533     | 1732     | 48                 | 289      | 533      |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 50                 | 1335     | 1394     | 64                 | 243      | 1769     | 79                 | 168      | 460      |
| 51                 | 107      | 339      | 64                 | 569      | 1100     | 79                 | 168      | 1200     |
| 53                 | 335      | 1055     | 64                 | 569      | 1497     | 79                 | 305      | 460      |
| 53                 | 335      | 1217     | 64                 | 1079     | 1100     | 79                 | 305      | 1200     |
| 53                 | 1055     | 1217     | 64                 | 1079     | 1769     | 79                 | 460      | 1200     |
| 55                 | 280      | 1325     | 64                 | 1100     | 1497     | 81                 | 94       | 109      |
| 58                 | 114      | 163      | 66                 | 302      | 1225     | 81                 | 94       | 671      |
| 58                 | 114      | 723      | 66                 | 302      | 1768     | 81                 | 94       | 843      |
| 58                 | 114      | 794      | 66                 | 615      | 1183     | 81                 | 109      | 671      |
| 58                 | 114      | 799      | 66                 | 615      | 1225     | 81                 | 109      | 843      |
| 58                 | 114      | 1668     | 66                 | 1183     | 1225     | 81                 | 620      | 671      |
| 58                 | 163      | 723      | 66                 | 1183     | 1768     | 81                 | 620      | 1018     |
| 58                 | 163      | 1668     | 66                 | 1225     | 1768     | 81                 | 671      | 843      |
| 59                 | 723      | 794      | 67                 | 119      | 525      | 81                 | 671      | 1018     |
| 59                 | 723      | 799      | 67                 | 119      | 540      | 82                 | 126      | 175      |
| 59                 | 723      | 1666     | 67                 | 119      | 1632     | 82                 | 126      | 332      |
| 59                 | 794      | 799      | 67                 | 525      | 540      | 82                 | 126      | 1190     |
| 60                 | 1084     | 1352     | 67                 | 525      | 1632     | 82                 | 175      | 1190     |
| 60                 | 1084     | 1435     | 67                 | 540      | 1632     | 82                 | 332      | 1029     |
| 60                 | 1352     | 1435     | 72                 | 102      | 821      | 82                 | 332      | 1190     |
| 62                 | 240      | 268      | 72                 | 189      | 1397     | 83                 | 254      | 340      |
| 62                 | 240      | 296      | 73                 | 77       | 632      | 83                 | 254      | 1268     |
| 62                 | 240      | 316      | 73                 | 77       | 1610     | 83                 | 340      | 1268     |
| 62                 | 240      | 431      | 73                 | 77       | 1729     | 84                 | 227      | 1737     |
| 62                 | 240      | 515      | 73                 | 91       | 1204     | 90                 | 222      | 279      |
| 62                 | 240      | 1623     | 73                 | 91       | 1332     | 90                 | 222      | 767      |
| 62                 | 268      | 316      | 73                 | 91       | 1610     | 90                 | 222      | 1259     |
| 62                 | 268      | 515      | 73                 | 91       | 1729     | 90                 | 222      | 1761     |
| 62                 | 268      | 555      | 73                 | 615      | 1332     | 90                 | 279      | 621      |
| 62                 | 268      | 1623     | 73                 | 615      | 1729     | 90                 | 279      | 767      |
| 62                 | 296      | 431      | 73                 | 632      | 1610     | 90                 | 279      | 936      |
| 62                 | 296      | 515      | 73                 | 1204     | 1610     | 90                 | 279      | 991      |
| 62                 | 296      | 1624     | 73                 | 1332     | 1729     | 90                 | 279      | 1259     |
| 62                 | 316      | 515      | 73                 | 1610     | 1729     | 90                 | 279      | 1261     |
| 62                 | 316      | 555      | 75                 | 571      | 1541     | 90                 | 279      | 1305     |
| 62                 | 316      | 1623     | 75                 | 571      | 1790     | 90                 | 279      | 1761     |
| 62                 | 431      | 515      | 75                 | 1080     | 1396     | 90                 | 621      | 936      |
| 62                 | 515      | 1624     | 75                 | 1080     | 1541     | 90                 | 621      | 991      |
| 62                 | 526      | 1624     | 75                 | 1080     | 1700     | 90                 | 621      | 1259     |
| 63                 | 574      | 684      | 75                 | 1080     | 1790     | 90                 | 621      | 1261     |
| 63                 | 574      | 1275     | 75                 | 1396     | 1541     | 90                 | 621      | 1305     |
| 63                 | 684      | 1279     | 75                 | 1396     | 1700     | 90                 | 621      | 1761     |
| 63                 | 1062     | 1749     | 75                 | 1541     | 1790     | 90                 | 767      | 1259     |
| 63                 | 1526     | 1717     | 76                 | 150      | 703      | 90                 | 767      | 1261     |
| 63                 | 1526     | 1749     | 76                 | 150      | 1130     | 90                 | 767      | 1761     |
| 63                 | 1717     | 1749     | 76                 | 150      | 1150     | 90                 | 936      | 991      |
| 64                 | 180      | 243      | 76                 | 150      | 1692     | 90                 | 936      | 1261     |
| 64                 | 180      | 569      | 76                 | 703      | 1130     | 90                 | 936      | 1305     |
| 64                 | 180      | 1079     | 76                 | 703      | 1150     | 90                 | 991      | 1261     |
| 64                 | 180      | 1100     | 76                 | 1130     | 1150     | 90                 | 991      | 1305     |
| 64                 | 180      | 1497     | 76                 | 1150     | 1692     | 90                 | 1259     | 1261     |
| 64                 | 243      | 1079     | 77                 | 632      | 1610     | 90                 | 1259     | 1305     |
| 64                 | 243      | 1100     | 77                 | 1610     | 1729     | 90                 | 1259     | 1761     |
| 64                 | 243      | 1497     | 79                 | 165      | 305      | 90                 | 1261     | 1305     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 90                 | 1261     | 1761     | 110                | 1393     | 1563     | 122                | 1443     | 1774     |
| 91                 | 208      | 1204     | 110                | 1393     | 1676     | 122                | 1536     | 1570     |
| 91                 | 208      | 1610     | 110                | 1563     | 1676     | 122                | 1536     | 1635     |
| 91                 | 761      | 1358     | 111                | 465      | 1324     | 122                | 1570     | 1635     |
| 91                 | 1204     | 1610     | 111                | 465      | 1370     | 122                | 1635     | 1774     |
| 91                 | 1332     | 1358     | 111                | 1324     | 1370     | 124                | 1295     | 1621     |
| 91                 | 1332     | 1729     | 112                | 939      | 1493     | 126                | 175      | 1190     |
| 91                 | 1610     | 1729     | 114                | 163      | 723      | 126                | 332      | 1190     |
| 92                 | 464      | 1702     | 114                | 163      | 1668     | 126                | 615      | 1183     |
| 94                 | 109      | 671      | 114                | 723      | 794      | 131                | 245      | 1122     |
| 94                 | 109      | 843      | 114                | 723      | 795      | 131                | 245      | 1480     |
| 94                 | 671      | 843      | 114                | 723      | 1668     | 131                | 245      | 1517     |
| 97                 | 191      | 903      | 114                | 794      | 799      | 131                | 503      | 1412     |
| 97                 | 191      | 1386     | 116                | 725      | 1089     | 131                | 1122     | 1412     |
| 97                 | 191      | 1597     | 116                | 1213     | 1544     | 131                | 1122     | 1480     |
| 97                 | 903      | 1386     | 116                | 1544     | 1713     | 131                | 1412     | 1480     |
| 97                 | 903      | 1597     | 118                | 438      | 1429     | 131                | 1480     | 1517     |
| 100                | 655      | 1104     | 119                | 525      | 540      | 138                | 1202     | 1545     |
| 100                | 1104     | 1271     | 119                | 525      | 1387     | 138                | 1218     | 1423     |
| 104                | 321      | 975      | 119                | 525      | 1632     | 138                | 1218     | 1544     |
| 104                | 321      | 1223     | 119                | 540      | 1387     | 138                | 1423     | 1544     |
| 104                | 975      | 1223     | 119                | 540      | 1632     | 138                | 1423     | 1545     |
| 106                | 131      | 1122     | 119                | 1387     | 1632     | 138                | 1423     | 1741     |
| 106                | 131      | 1412     | 120                | 192      | 303      | 138                | 1544     | 1741     |
| 106                | 131      | 1480     | 122                | 379      | 878      | 138                | 1545     | 1741     |
| 106                | 959      | 1044     | 122                | 379      | 993      | 140                | 462      | 825      |
| 106                | 959      | 1122     | 122                | 379      | 1247     | 140                | 462      | 1131     |
| 106                | 959      | 1480     | 122                | 379      | 1389     | 140                | 462      | 1553     |
| 106                | 1122     | 1412     | 122                | 379      | 1443     | 140                | 462      | 1618     |
| 106                | 1122     | 1480     | 122                | 379      | 1635     | 140                | 462      | 1684     |
| 106                | 1412     | 1480     | 122                | 379      | 1774     | 140                | 825      | 1131     |
| 108                | 355      | 659      | 122                | 878      | 993      | 140                | 825      | 1618     |
| 108                | 355      | 1135     | 122                | 878      | 1247     | 140                | 825      | 1684     |
| 108                | 355      | 1267     | 122                | 878      | 1389     | 140                | 1131     | 1618     |
| 108                | 355      | 1381     | 122                | 878      | 1443     | 140                | 1553     | 1618     |
| 108                | 355      | 1700     | 122                | 878      | 1635     | 140                | 1618     | 1684     |
| 108                | 659      | 1135     | 122                | 878      | 1774     | 142                | 557      | 969      |
| 108                | 659      | 1267     | 122                | 993      | 1289     | 142                | 557      | 1496     |
| 108                | 659      | 1381     | 122                | 993      | 1389     | 142                | 557      | 1740     |
| 108                | 1135     | 1267     | 122                | 993      | 1443     | 142                | 969      | 1496     |
| 108                | 1135     | 1381     | 122                | 993      | 1536     | 142                | 969      | 1740     |
| 108                | 1135     | 1700     | 122                | 993      | 1570     | 142                | 1496     | 1740     |
| 108                | 1267     | 1381     | 122                | 993      | 1635     | 144                | 447      | 1450     |
| 108                | 1267     | 1700     | 122                | 993      | 1774     | 144                | 447      | 1483     |
| 108                | 1381     | 1700     | 122                | 1247     | 1389     | 144                | 447      | 1601     |
| 109                | 671      | 843      | 122                | 1247     | 1443     | 144                | 566      | 1083     |
| 110                | 1327     | 1344     | 122                | 1247     | 1774     | 144                | 566      | 1667     |
| 110                | 1327     | 1393     | 122                | 1289     | 1536     | 144                | 1137     | 1667     |
| 110                | 1327     | 1563     | 122                | 1289     | 1570     | 144                | 1450     | 1483     |
| 110                | 1327     | 1676     | 122                | 1289     | 1635     | 144                | 1450     | 1601     |
| 110                | 1344     | 1393     | 122                | 1389     | 1443     | 147                | 270      | 493      |
| 110                | 1375     | 1393     | 122                | 1389     | 1635     | 147                | 270      | 1014     |
| 110                | 1375     | 1563     | 122                | 1389     | 1774     | 147                | 299      | 1438     |
| 110                | 1375     | 1676     | 122                | 1443     | 1635     | 147                | 499      | 1014     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 147                | 1014     | 1438     | 167                | 1389     | 1443     | 178                | 588      | 1162     |
| 149                | 954      | 1576     | 167                | 1389     | 1774     | 178                | 1073     | 1162     |
| 149                | 954      | 1672     | 167                | 1443     | 1774     | 178                | 1162     | 1440     |
| 149                | 954      | 1691     | 167                | 1489     | 1762     | 175                | 322      | 441      |
| 149                | 954      | 1788     | 168                | 305      | 460      | 179                | 322      | 896      |
| 149                | 1576     | 1672     | 168                | 305      | 1200     | 175                | 441      | 896      |
| 149                | 1576     | 1691     | 168                | 460      | 1200     | 180                | 184      | 243      |
| 149                | 1576     | 1788     | 169                | 224      | 1308     | 180                | 184      | 1079     |
| 149                | 1672     | 1691     | 169                | 231      | 1454     | 180                | 243      | 1079     |
| 149                | 1672     | 1788     | 171                | 383      | 1061     | 180                | 243      | 1100     |
| 149                | 1691     | 1788     | 171                | 383      | 1302     | 180                | 243      | 1497     |
| 150                | 703      | 1130     | 171                | 383      | 1487     | 180                | 569      | 1100     |
| 150                | 703      | 1150     | 171                | 383      | 1674     | 180                | 569      | 1497     |
| 150                | 1130     | 1150     | 171                | 383      | 1697     | 180                | 1037     | 1100     |
| 150                | 1150     | 1692     | 171                | 1061     | 1302     | 180                | 1100     | 1497     |
| 151                | 162      | 1343     | 171                | 1061     | 1487     | 182                | 240      | 431      |
| 153                | 368      | 919      | 171                | 1061     | 1674     | 182                | 240      | 1778     |
| 155                | 698      | 906      | 171                | 1061     | 1687     | 182                | 240      | 1789     |
| 158                | 832      | 1645     | 171                | 1302     | 1487     | 184                | 243      | 1079     |
| 158                | 832      | 1704     | 171                | 1302     | 1674     | 189                | 540      | 1037     |
| 158                | 832      | 1779     | 171                | 1302     | 1687     | 189                | 540      | 1387     |
| 158                | 1100     | 1497     | 171                | 1487     | 1581     | 189                | 540      | 1791     |
| 158                | 1645     | 1704     | 171                | 1487     | 1674     | 189                | 1037     | 1387     |
| 158                | 1645     | 1779     | 171                | 1487     | 1687     | 189                | 1037     | 1791     |
| 158                | 1704     | 1779     | 171                | 1487     | 1778     | 189                | 1387     | 1791     |
| 159                | 294      | 442      | 171                | 1581     | 1674     | 191                | 903      | 1386     |
| 159                | 294      | 1492     | 171                | 1581     | 1778     | 191                | 903      | 1597     |
| 159                | 442      | 1492     | 171                | 1674     | 1687     | 202                | 475      | 1528     |
| 162                | 401      | 1343     | 177                | 184      | 1079     | 202                | 658      | 1382     |
| 163                | 723      | 1668     | 177                | 658      | 717      | 208                | 1204     | 1610     |
| 163                | 1668     | 1733     | 177                | 658      | 578      | 211                | 514      | 901      |
| 163                | 1668     | 1736     | 177                | 658      | 1382     | 211                | 514      | 1109     |
| 163                | 1668     | 1759     | 177                | 717      | 2382     | 211                | 514      | 1147     |
| 163                | 1733     | 1736     | 177                | 828      | 1382     | 211                | 901      | 1057     |
| 163                | 1733     | 1759     | 179                | 223      | 492      | 211                | 901      | 1147     |
| 163                | 1736     | 1759     | 178                | 223      | 641      | 211                | 901      | 1420     |
| 165                | 433      | 1284     | 178                | 223      | 981      | 211                | 1057     | 1420     |
| 166                | 402      | 625      | 178                | 223      | 988      | 211                | 1109     | 1147     |
| 167                | 291      | 878      | 178                | 223      | 1073     | 211                | 1147     | 1420     |
| 167                | 291      | 1247     | 178                | 223      | 1162     | 212                | 406      | 1491     |
| 167                | 291      | 1389     | 178                | 223      | 1440     | 215                | 229      | 435      |
| 167                | 291      | 1443     | 178                | 492      | 641      | 215                | 229      | 761      |
| 167                | 291      | 1762     | 178                | 492      | 981      | 215                | 229      | 1358     |
| 167                | 291      | 1774     | 178                | 492      | 998      | 215                | 435      | 761      |
| 167                | 315      | 1335     | 178                | 492      | 1073     | 215                | 435      | 1358     |
| 167                | 315      | 1489     | 178                | 492      | 1162     | 215                | 435      | 1698     |
| 167                | 315      | 1762     | 178                | 641      | 981      | 215                | 641      | 988      |
| 167                | 878      | 1247     | 178                | 641      | 988      | 215                | 641      | 1073     |
| 167                | 878      | 1389     | 178                | 641      | 1073     | 215                | 641      | 1698     |
| 167                | 878      | 1443     | 178                | 641      | 1162     | 215                | 761      | 1358     |
| 167                | 878      | 1774     | 178                | 981      | 988      | 215                | 988      | 1027     |
| 167                | 1247     | 1389     | 178                | 981      | 1162     | 215                | 988      | 1073     |
| 167                | 1247     | 1443     | 178                | 981      | 1440     | 215                | 988      | 1698     |
| 167                | 1247     | 1774     | 178                | 988      | 1073     | 215                | 1027     | 1073     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 215                | 1027     | 1698     | 244                | 1150     | 1650     | 268                | 316      | 1623     |
| 215                | 1073     | 1698     | 244                | 1422     | 1650     | 268                | 936      | 1623     |
| 222                | 279      | 767      | 245                | 1122     | 1480     | 268                | 936      | 1633     |
| 222                | 279      | 1259     | 245                | 1133     | 1344     | 268                | 1623     | 1633     |
| 222                | 279      | 1761     | 245                | 1133     | 1522     | 270                | 396      | 1014     |
| 222                | 767      | 1259     | 245                | 1344     | 1522     | 270                | 396      | 1319     |
| 222                | 767      | 1445     | 245                | 1480     | 1517     | 270                | 499      | 1014     |
| 222                | 767      | 1761     | 245                | 1517     | 1522     | 270                | 1198     | 1319     |
| 222                | 1259     | 1761     | 249                | 661      | 1182     | 271                | 1415     | 1777     |
| 223                | 492      | 641      | 251                | 1533     | 1732     | 272                | 1219     | 1757     |
| 223                | 492      | 981      | 251                | 1533     | 1755     | 272                | 1439     | 1757     |
| 223                | 492      | 988      | 251                | 1732     | 1755     | 274                | 452      | 534      |
| 223                | 492      | 1073     | 252                | 1059     | 1286     | 274                | 534      | 580      |
| 223                | 492      | 1162     | 252                | 1286     | 1287     | 274                | 580      | 1010     |
| 223                | 641      | 981      | 253                | 289      | 533      | 275                | 334      | 736      |
| 223                | 641      | 988      | 253                | 533      | 1409     | 275                | 334      | 1562     |
| 223                | 641      | 1073     | 254                | 340      | 1268     | 275                | 334      | 1648     |
| 223                | 641      | 1162     | 254                | 340      | 1744     | 275                | 736      | 1648     |
| 223                | 981      | 988      | 254                | 1081     | 1744     | 275                | 1562     | 1648     |
| 223                | 981      | 1162     | 254                | 1268     | 1744     | 277                | 832      | 1779     |
| 223                | 981      | 1440     | 261                | 274      | 452      | 277                | 848      | 1363     |
| 223                | 988      | 1073     | 261                | 274      | 534      | 277                | 848      | 1442     |
| 223                | 988      | 1162     | 261                | 274      | 580      | 277                | 1363     | 1442     |
| 223                | 1073     | 1162     | 261                | 274      | 1010     | 277                | 1363     | 1793     |
| 223                | 1162     | 1440     | 261                | 452      | 534      | 277                | 1442     | 1793     |
| 229                | 435      | 761      | 261                | 452      | 825      | 279                | 621      | 436      |
| 229                | 435      | 1358     | 261                | 452      | 1131     | 279                | 621      | 991      |
| 229                | 720      | 1029     | 261                | 452      | 1336     | 279                | 621      | 1259     |
| 229                | 720      | 1162     | 261                | 534      | 580      | 279                | 621      | 1261     |
| 229                | 761      | 1029     | 261                | 534      | 825      | 279                | 621      | 1305     |
| 229                | 761      | 1358     | 261                | 534      | 1131     | 279                | 621      | 1761     |
| 229                | 1029     | 1358     | 261                | 534      | 1336     | 279                | 767      | 1259     |
| 235                | 858      | 1550     | 261                | 580      | 825      | 279                | 767      | 1261     |
| 235                | 858      | 1594     | 261                | 580      | 1010     | 279                | 767      | 1761     |
| 236                | 421      | 1705     | 261                | 580      | 1131     | 279                | 936      | 991      |
| 240                | 268      | 316      | 261                | 580      | 1336     | 279                | 936      | 1261     |
| 240                | 268      | 515      | 261                | 825      | 1131     | 279                | 936      | 1305     |
| 240                | 268      | 1623     | 261                | 825      | 1336     | 279                | 991      | 1261     |
| 240                | 296      | 431      | 261                | 1131     | 1336     | 279                | 991      | 1305     |
| 240                | 296      | 515      | 262                | 636      | 1072     | 279                | 1259     | 1261     |
| 240                | 316      | 515      | 263                | 277      | 848      | 279                | 1259     | 1305     |
| 240                | 316      | 1623     | 263                | 277      | 1363     | 279                | 1259     | 1761     |
| 240                | 431      | 515      | 263                | 277      | 1442     | 279                | 1261     | 1305     |
| 240                | 1623     | 1778     | 263                | 277      | 1793     | 279                | 1261     | 1761     |
| 243                | 1079     | 1100     | 263                | 586      | 1442     | 288                | 522      | 877      |
| 243                | 1079     | 1769     | 263                | 586      | 1793     | 288                | 522      | 1577     |
| 243                | 1100     | 1497     | 263                | 848      | 1363     | 288                | 1577     | 1506     |
| 244                | 650      | 703      | 263                | 848      | 1442     | 291                | 317      | 461      |
| 244                | 650      | 1150     | 263                | 1363     | 1442     | 291                | 317      | 1092     |
| 244                | 650      | 1542     | 263                | 1363     | 1793     | 291                | 317      | 1247     |
| 244                | 703      | 1150     | 263                | 1442     | 1793     | 291                | 317      | 1615     |
| 244                | 703      | 1542     | 269                | 316      | 515      | 291                | 317      | 1764     |
| 244                | 1150     | 1422     | 268                | 316      | 555      | 291                | 317      | 1702     |
| 244                | 1150     | 1542     | 269                | 316      | 932      | 291                | 375      | 461      |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 291                | 379      | 878      | 309                | 333      | 1608     | 321                | 720      | 1029     |
| 291                | 379      | 1247     | 309                | 708      | 641      | 321                | 720      | 1223     |
| 291                | 379      | 1389     | 309                | 708      | 1481     | 321                | 720      | 1440     |
| 291                | 379      | 1443     | 309                | 700      | 1638     | 321                | 975      | 1029     |
| 291                | 379      | 1774     | 309                | 841      | 1491     | 321                | 975      | 1223     |
| 291                | 379      | 1782     | 309                | 841      | 1638     | 321                | 975      | 1440     |
| 291                | 461      | 1082     | 309                | 1481     | 1608     | 321                | 1029     | 1223     |
| 291                | 461      | 1247     | 311                | 367      | 449      | 321                | 1223     | 1440     |
| 291                | 461      | 1615     | 311                | 367      | 1745     | 322                | 441      | 996      |
| 291                | 461      | 1782     | 311                | 449      | 1745     | 324                | 916      | 1187     |
| 291                | 878      | 1247     | 311                | 1397     | 1745     | 327                | 1418     | 1640     |
| 291                | 878      | 1389     | 315                | 810      | 1489     | 332                | 975      | 1029     |
| 291                | 878      | 1443     | 315                | 810      | 1742     | 333                | 708      | 841      |
| 291                | 878      | 1774     | 315                | 810      | 1762     | 333                | 708      | 1481     |
| 291                | 1082     | 1247     | 315                | 810      | 1764     | 333                | 708      | 1608     |
| 291                | 1082     | 1615     | 315                | 1489     | 1742     | 333                | 841      | 1481     |
| 291                | 1082     | 1764     | 315                | 1489     | 1762     | 333                | 841      | 1608     |
| 291                | 1082     | 1782     | 315                | 1489     | 1764     | 333                | 1481     | 1608     |
| 291                | 1247     | 1389     | 315                | 1742     | 1762     | 334                | 736      | 1648     |
| 291                | 1247     | 1443     | 315                | 1742     | 1764     | 334                | 1562     | 1648     |
| 291                | 1247     | 1615     | 315                | 1762     | 1764     | 335                | 873      | 1055     |
| 291                | 1247     | 1774     | 315                | 938      | 1623     | 335                | 873      | 1217     |
| 291                | 1247     | 1782     | 317                | 461      | 561      | 335                | 1055     | 1217     |
| 291                | 1389     | 1443     | 317                | 461      | 1082     | 336                | 1293     | 1647     |
| 291                | 1389     | 1774     | 317                | 461      | 1247     | 337                | 356      | 1537     |
| 291                | 1443     | 1774     | 317                | 461      | 1539     | 337                | 613      | 1587     |
| 291                | 1615     | 1782     | 317                | 461      | 1615     | 340                | 1268     | 1744     |
| 291                | 1762     | 1764     | 317                | 461      | 1782     | 341                | 578      | 1354     |
| 294                | 442      | 1492     | 317                | 561      | 710      | 342                | 378      | 826      |
| 294                | 1251     | 1492     | 317                | 561      | 1003     | 347                | 488      | 1771     |
| 296                | 431      | 515      | 317                | 561      | 1082     | 347                | 1464     | 1771     |
| 296                | 515      | 1624     | 317                | 561      | 1539     | 352                | 960      | 1652     |
| 296                | 1097     | 1624     | 317                | 561      | 1615     | 353                | 364      | 758      |
| 300                | 468      | 551      | 317                | 561      | 1782     | 353                | 758      | 1026     |
| 300                | 468      | 1074     | 317                | 710      | 1003     | 353                | 758      | 1056     |
| 300                | 468      | 1686     | 317                | 710      | 1062     | 353                | 1026     | 1056     |
| 300                | 551      | 1686     | 317                | 710      | 1539     | 355                | 659      | 1135     |
| 300                | 1074     | 1128     | 317                | 710      | 1615     | 355                | 659      | 1267     |
| 300                | 1074     | 1462     | 317                | 1003     | 1032     | 355                | 659      | 1381     |
| 300                | 1074     | 1669     | 317                | 1003     | 1539     | 355                | 1135     | 1267     |
| 300                | 1074     | 1686     | 317                | 1003     | 1615     | 355                | 1135     | 1381     |
| 300                | 1128     | 1578     | 317                | 1082     | 1247     | 355                | 1135     | 1700     |
| 300                | 1462     | 1669     | 317                | 1082     | 1539     | 355                | 1267     | 1381     |
| 300                | 1462     | 1686     | 317                | 1082     | 1615     | 355                | 1267     | 1700     |
| 300                | 1669     | 1686     | 317                | 1082     | 1764     | 355                | 1381     | 1700     |
| 302                | 1225     | 1768     | 317                | 1082     | 1782     | 358                | 755      | 827      |
| 305                | 460      | 1200     | 317                | 1247     | 1615     | 360                | 653      | 807      |
| 308                | 808      | 1020     | 317                | 1247     | 1782     | 360                | 653      | 1334     |
| 308                | 834      | 1020     | 317                | 1539     | 1615     | 360                | 807      | 1334     |
| 308                | 834      | 1671     | 317                | 1539     | 1782     | 367                | 449      | 1745     |
| 308                | 1020     | 1671     | 317                | 1615     | 1782     | 371                | 1173     | 1195     |
| 309                | 333      | 708      | 321                | 332      | 975      | 376                | 427      | 1298     |
| 309                | 333      | 841      | 321                | 332      | 1029     | 376                | 427      | 1374     |
| 309                | 333      | 1481     | 321                | 720      | 975      | 376                | 1298     | 1374     |



TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 379                | 461      | 1247     | 395                | 1420     | 1661     | 461                | 1082     | 1539     |
| 379                | 461      | 1782     | 396                | 960      | 1311     | 461                | 1082     | 1615     |
| 379                | 878      | 993      | 408                | 775      | 1297     | 461                | 1082     | 1782     |
| 379                | 878      | 1247     | 408                | 775      | 1485     | 461                | 1247     | 1615     |
| 379                | 878      | 1389     | 408                | 884      | 1485     | 461                | 1247     | 1782     |
| 379                | 878      | 1443     | 408                | 1297     | 1485     | 461                | 1539     | 1615     |
| 379                | 878      | 1635     | 412                | 630      | 891      | 461                | 1539     | 1782     |
| 379                | 878      | 1774     | 412                | 891      | 1592     | 461                | 1615     | 1782     |
| 379                | 993      | 1389     | 414                | 559      | 1655     | 462                | 825      | 1125     |
| 379                | 993      | 1443     | 419                | 929      | 1296     | 462                | 825      | 1131     |
| 379                | 993      | 1635     | 419                | 929      | 1307     | 462                | 825      | 1336     |
| 379                | 993      | 1774     | 419                | 929      | 1537     | 462                | 825      | 1618     |
| 379                | 1247     | 1389     | 419                | 929      | 1561     | 462                | 825      | 1684     |
| 379                | 1247     | 1443     | 419                | 1296     | 1537     | 462                | 1125     | 1131     |
| 379                | 1247     | 1774     | 419                | 1296     | 1561     | 462                | 1125     | 1336     |
| 379                | 1247     | 1782     | 419                | 1296     | 1590     | 462                | 1125     | 1618     |
| 379                | 1389     | 1443     | 419                | 1307     | 1537     | 462                | 1131     | 1336     |
| 379                | 1389     | 1635     | 419                | 1307     | 1561     | 462                | 1131     | 1618     |
| 379                | 1389     | 1774     | 419                | 1561     | 1590     | 462                | 1336     | 1618     |
| 379                | 1443     | 1635     | 421                | 1606     | 1705     | 462                | 1553     | 1618     |
| 379                | 1443     | 1774     | 422                | 477      | 802      | 462                | 1618     | 1684     |
| 379                | 1635     | 1774     | 422                | 497      | 802      | 465                | 1324     | 1370     |
| 380                | 913      | 1063     | 422                | 497      | 1138     | 465                | 1324     | 1763     |
| 380                | 913      | 1270     | 422                | 802      | 1188     | 468                | 551      | 637      |
| 380                | 1063     | 1270     | 425                | 959      | 1044     | 468                | 551      | 996      |
| 383                | 1061     | 1302     | 427                | 1273     | 1298     | 468                | 551      | 1340     |
| 383                | 1061     | 1445     | 427                | 1298     | 1374     | 468                | 551      | 1383     |
| 383                | 1061     | 1487     | 435                | 761      | 1358     | 468                | 551      | 1486     |
| 383                | 1061     | 1674     | 443                | 1020     | 1671     | 468                | 551      | 1696     |
| 383                | 1061     | 1687     | 444                | 572      | 1114     | 468                | 637      | 996      |
| 383                | 1125     | 1674     | 447                | 503      | 1601     | 468                | 637      | 1340     |
| 383                | 1125     | 1687     | 447                | 1450     | 1483     | 468                | 637      | 1383     |
| 383                | 1302     | 1445     | 447                | 1450     | 1601     | 468                | 637      | 1486     |
| 383                | 1302     | 1487     | 452                | 534      | 825      | 468                | 637      | 1686     |
| 383                | 1302     | 1674     | 452                | 534      | 1125     | 468                | 996      | 1340     |
| 383                | 1302     | 1687     | 452                | 534      | 1131     | 468                | 996      | 1686     |
| 383                | 1445     | 1487     | 452                | 534      | 1336     | 468                | 1074     | 1686     |
| 383                | 1445     | 1674     | 452                | 825      | 1125     | 468                | 1340     | 1383     |
| 383                | 1445     | 1687     | 452                | 925      | 1131     | 468                | 1340     | 1486     |
| 383                | 1487     | 1674     | 452                | 825      | 1336     | 468                | 1340     | 1686     |
| 383                | 1487     | 1687     | 452                | 1125     | 1131     | 468                | 1363     | 1486     |
| 383                | 1674     | 1687     | 452                | 1125     | 1336     | 477                | 802      | 915      |
| 384                | 722      | 867      | 452                | 1131     | 1336     | 492                | 641      | 981      |
| 384                | 722      | 1448     | 453                | 477      | 802      | 492                | 641      | 988      |
| 384                | 867      | 1448     | 453                | 477      | 915      | 492                | 641      | 1073     |
| 388                | 711      | 1121     | 453                | 802      | 915      | 492                | 641      | 1162     |
| 389                | 972      | 1411     | 454                | 578      | 1354     | 492                | 641      | 1253     |
| 395                | 823      | 1057     | 460                | 1200     | 1475     | 492                | 981      | 989      |
| 395                | 823      | 1420     | 461                | 561      | 1082     | 492                | 981      | 1162     |
| 395                | 823      | 1652     | 461                | 561      | 1539     | 492                | 988      | 1073     |
| 395                | 901      | 1057     | 461                | 561      | 1615     | 492                | 988      | 1162     |
| 395                | 901      | 1420     | 461                | 561      | 1782     | 492                | 988      | 1253     |
| 395                | 901      | 1661     | 461                | 954      | 1782     | 492                | 1073     | 1162     |
| 395                | 1057     | 1420     | 461                | 1082     | 1247     | 492                | 1073     | 1253     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>i</i>           | <i>k</i> | <i>l</i> |
| 494                | 718      | 1155     | 543                | 1141     | 1595     | 574                | 684      | 1697     |
| 496                | 1257     | 1673     | 548                | 1551     | 1684     | 574                | 1279     | 1697     |
| 496                | 1673     | 1739     | 549                | 763      | 985      | 577                | 765      | 1523     |
| 497                | 571      | 802      | 551                | 637      | 996      | 577                | 765      | 1697     |
| 497                | 571      | 1188     | 551                | 637      | 1340     | 577                | 819      | 1152     |
| 497                | 571      | 1541     | 551                | 637      | 1383     | 577                | 1152     | 1523     |
| 497                | 802      | 1189     | 551                | 637      | 1486     | 580                | 825      | 1131     |
| 497                | 1080     | 1189     | 551                | 637      | 1686     | 580                | 825      | 1336     |
| 497                | 1080     | 1541     | 551                | 996      | 1340     | 580                | 825      | 1618     |
| 497                | 1188     | 1541     | 551                | 996      | 1686     | 580                | 825      | 1664     |
| 503                | 553      | 1601     | 551                | 1340     | 1383     | 580                | 1131     | 1336     |
| 507                | 608      | 1507     | 551                | 1340     | 1486     | 580                | 1131     | 1618     |
| 510                | 1286     | 1287     | 551                | 1340     | 1686     | 580                | 1326     | 1618     |
| 514                | 901      | 1147     | 551                | 1383     | 1486     | 580                | 1618     | 1684     |
| 514                | 1109     | 1147     | 553                | 1189     | 1773     | 586                | 1442     | 1792     |
| 516                | 1098     | 1106     | 553                | 1601     | 1773     | 591                | 760      | 1406     |
| 521                | 1278     | 1665     | 554                | 557      | 1496     | 615                | 1183     | 1225     |
| 522                | 877      | 1703     | 555                | 811      | 1269     | 615                | 1183     | 1332     |
| 525                | 540      | 1387     | 557                | 969      | 1496     | 615                | 1183     | 1729     |
| 525                | 540      | 1632     | 557                | 969      | 1740     | 615                | 1332     | 1729     |
| 525                | 1387     | 1632     | 557                | 1496     | 1740     | 620                | 671      | 1018     |
| 526                | 710      | 1003     | 558                | 622      | 1414     | 620                | 671      | 1587     |
| 526                | 710      | 1142     | 558                | 716      | 1414     | 620                | 1018     | 1587     |
| 526                | 710      | 1539     | 559                | 807      | 1655     | 621                | 936      | 991      |
| 526                | 710      | 1624     | 561                | 710      | 1003     | 621                | 936      | 1261     |
| 526                | 851      | 1142     | 561                | 710      | 1082     | 621                | 936      | 1305     |
| 526                | 851      | 1624     | 561                | 710      | 1097     | 621                | 991      | 1261     |
| 526                | 1003     | 1142     | 561                | 710      | 1539     | 621                | 991      | 1305     |
| 526                | 1003     | 1539     | 561                | 710      | 1615     | 621                | 1259     | 1261     |
| 526                | 1003     | 1624     | 561                | 1003     | 1682     | 621                | 1259     | 1305     |
| 526                | 1142     | 1539     | 561                | 1003     | 1097     | 621                | 1259     | 1761     |
| 526                | 1142     | 1624     | 561                | 1003     | 1539     | 621                | 1261     | 1305     |
| 526                | 1539     | 1624     | 561                | 1003     | 1615     | 621                | 1261     | 1761     |
| 527                | 537      | 1015     | 561                | 1082     | 1539     | 628                | 931      | 1220     |
| 527                | 537      | 1593     | 561                | 1082     | 1615     | 633                | 1148     | 1643     |
| 529                | 742      | 1359     | 561                | 1082     | 1702     | 637                | 846      | 1045     |
| 534                | 580      | 825      | 561                | 1097     | 1539     | 637                | 846      | 1340     |
| 534                | 580      | 1131     | 561                | 1539     | 1615     | 637                | 846      | 1383     |
| 534                | 580      | 1336     | 561                | 1539     | 1782     | 637                | 846      | 1406     |
| 534                | 825      | 1125     | 561                | 1615     | 1782     | 637                | 896      | 1340     |
| 534                | 825      | 1131     | 566                | 782      | 857      | 637                | 896      | 1686     |
| 534                | 825      | 1336     | 566                | 782      | 1083     | 637                | 1045     | 1340     |
| 534                | 1125     | 1131     | 566                | 782      | 1663     | 637                | 1045     | 1383     |
| 534                | 1125     | 1336     | 566                | 857      | 1083     | 637                | 1045     | 1436     |
| 534                | 1131     | 1336     | 566                | 857      | 1663     | 637                | 1340     | 1383     |
| 538                | 627      | 1085     | 566                | 1053     | 1663     | 637                | 1340     | 1486     |
| 539                | 1176     | 1644     | 566                | 1154     | 1667     | 637                | 1340     | 1686     |
| 540                | 1037     | 1387     | 569                | 1100     | 1497     | 637                | 1383     | 1486     |
| 540                | 1037     | 1632     | 570                | 586      | 1793     | 641                | 981      | 989      |
| 540                | 1037     | 1791     | 571                | 802      | 1188     | 641                | 981      | 1162     |
| 540                | 1387     | 1632     | 571                | 1188     | 1541     | 641                | 988      | 1073     |
| 540                | 1387     | 1791     | 571                | 1188     | 1490     | 641                | 988      | 1162     |
| 540                | 1632     | 1791     | 571                | 1541     | 1790     | 641                | 988      | 1253     |
| 541                | 1407     | 1535     | 574                | 684      | 1279     | 641                | 988      | 1698     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 641                | 1073     | 1162     | 710                | 1097     | 1624     | 782                | 967      | 1663     |
| 641                | 1073     | 1253     | 710                | 1142     | 1539     | 782                | 1083     | 1663     |
| 641                | 1073     | 1698     | 710                | 1142     | 1624     | 794                | 799      | 1722     |
| 641                | 1253     | 1698     | 710                | 1539     | 1615     | 797                | 1256     | 1611     |
| 650                | 703      | 1130     | 710                | 1539     | 1624     | 797                | 1561     | 1611     |
| 650                | 703      | 1150     | 720                | 975      | 1029     | 800                | 1274     | 1682     |
| 650                | 703      | 1542     | 720                | 975      | 1223     | 810                | 962      | 1245     |
| 650                | 1130     | 1150     | 720                | 975      | 1440     | 810                | 962      | 1409     |
| 650                | 1150     | 1542     | 720                | 981      | 1162     | 810                | 962      | 1742     |
| 653                | 807      | 1334     | 720                | 981      | 1440     | 810                | 962      | 1764     |
| 656                | 822      | 1229     | 720                | 1029     | 1223     | 810                | 1004     | 1245     |
| 656                | 822      | 1638     | 720                | 1162     | 1440     | 810                | 1004     | 1742     |
| 656                | 1383     | 1638     | 720                | 1223     | 1440     | 810                | 1245     | 1489     |
| 656                | 1638     | 1788     | 722                | 867      | 1448     | 810                | 1245     | 1742     |
| 658                | 717      | 1382     | 722                | 367      | 1599     | 810                | 1489     | 1742     |
| 658                | 828      | 1382     | 722                | 867      | 1664     | 810                | 1489     | 1762     |
| 659                | 1135     | 1267     | 722                | 1448     | 1599     | 810                | 1489     | 1764     |
| 659                | 1135     | 1381     | 722                | 1448     | 1664     | 810                | 1742     | 1762     |
| 659                | 1267     | 1381     | 722                | 1599     | 1664     | 810                | 1742     | 1764     |
| 661                | 1157     | 1182     | 723                | 794      | 799      | 810                | 1762     | 1764     |
| 661                | 1182     | 1426     | 725                | 750      | 1012     | 811                | 1171     | 1331     |
| 662                | 736      | 1513     | 725                | 750      | 1089     | 811                | 1171     | 1748     |
| 662                | 736      | 1648     | 725                | 1012     | 1089     | 811                | 1269     | 1350     |
| 662                | 1111     | 1513     | 728                | 1154     | 1511     | 811                | 1331     | 1748     |
| 671                | 1018     | 1587     | 728                | 1154     | 1667     | 813                | 941      | 1676     |
| 684                | 1279     | 1697     | 728                | 1154     | 1680     | 813                | 1375     | 1563     |
| 685                | 929      | 1307     | 728                | 1511     | 1680     | 813                | 1375     | 1676     |
| 685                | 929      | 1537     | 728                | 1667     | 1680     | 813                | 1563     | 1676     |
| 685                | 929      | 1726     | 730                | 811      | 1748     | 822                | 848      | 1229     |
| 685                | 1307     | 1537     | 742                | 1359     | 1364     | 822                | 848      | 1363     |
| 685                | 1307     | 1726     | 748                | 847      | 1292     | 822                | 848      | 1672     |
| 685                | 1307     | 1752     | 748                | 847      | 1666     | 822                | 1229     | 1363     |
| 685                | 1537     | 1726     | 748                | 1292     | 1699     | 822                | 1229     | 1672     |
| 685                | 1537     | 1752     | 749                | 758      | 1026     | 823                | 951      | 1169     |
| 685                | 1726     | 1752     | 750                | 1012     | 1089     | 823                | 1057     | 1420     |
| 686                | 699      | 726      | 750                | 1012     | 1602     | 825                | 1125     | 1131     |
| 698                | 906      | 1715     | 752                | 1549     | 1772     | 825                | 1125     | 1336     |
| 703                | 1130     | 1150     | 758                | 1026     | 1056     | 825                | 1125     | 1618     |
| 703                | 1150     | 1542     | 761                | 1029     | 1358     | 825                | 1131     | 1336     |
| 708                | 841      | 1481     | 763                | 985      | 1530     | 825                | 1131     | 1618     |
| 703                | 841      | 1608     | 767                | 1259     | 1261     | 825                | 1336     | 1618     |
| 708                | 1470     | 1481     | 767                | 1259     | 1761     | 825                | 1618     | 1684     |
| 708                | 1481     | 1608     | 767                | 1261     | 1761     | 828                | 1462     | 1669     |
| 710                | 1003     | 1082     | 767                | 1302     | 1445     | 832                | 1645     | 1704     |
| 710                | 1003     | 1097     | 770                | 1219     | 1472     | 832                | 1645     | 1779     |
| 710                | 1003     | 1142     | 770                | 1219     | 1738     | 832                | 1704     | 1779     |
| 710                | 1003     | 1539     | 770                | 1472     | 1738     | 833                | 1416     | 1678     |
| 710                | 1003     | 1615     | 775                | 1297     | 1485     | 834                | 1020     | 1671     |
| 710                | 1003     | 1624     | 778                | 1113     | 1206     | 834                | 1084     | 1352     |
| 710                | 1082     | 1142     | 782                | 857      | 967      | 834                | 1084     | 1435     |
| 710                | 1082     | 1539     | 782                | 857      | 1083     | 834                | 1352     | 1435     |
| 710                | 1082     | 1615     | 782                | 857      | 1663     | 841                | 1481     | 1608     |
| 710                | 1082     | 1624     | 782                | 967      | 1047     | 846                | 1045     | 1340     |
| 710                | 1097     | 1539     | 782                | 967      | 1083     | 846                | 1045     | 1383     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 846                | 1045     | 1486     | 931                | 1220     | 1758     | 1003               | 1082     | 1539     |
| 846                | 1045     | 1638     | 936                | 991      | 1261     | 1003               | 1082     | 1615     |
| 846                | 1340     | 1383     | 936                | 991      | 1305     | 1003               | 1082     | 1624     |
| 846                | 1340     | 1486     | 936                | 1261     | 1305     | 1003               | 1097     | 1539     |
| 846                | 1383     | 1486     | 933                | 1171     | 1331     | 1003               | 1097     | 1624     |
| 846                | 1383     | 1638     | 938                | 1623     | 1633     | 1003               | 1142     | 1539     |
| 846                | 1486     | 1638     | 946                | 1091     | 1128     | 1003               | 1142     | 1624     |
| 848                | 1229     | 1363     | 954                | 1576     | 1672     | 1003               | 1539     | 1615     |
| 848                | 1229     | 1672     | 954                | 1576     | 1691     | 1003               | 1539     | 1624     |
| 848                | 1363     | 1442     | 954                | 1576     | 1788     | 1004               | 1245     | 1742     |
| 851                | 1142     | 1624     | 954                | 1672     | 1691     | 1012               | 1137     | 1607     |
| 854                | 956      | 1703     | 954                | 1672     | 1788     | 1012               | 1483     | 1602     |
| 857                | 967      | 974      | 954                | 1691     | 1788     | 1027               | 1073     | 1253     |
| 857                | 967      | 1023     | 958                | 1062     | 1077     | 1027               | 1073     | 1698     |
| 857                | 967      | 1549     | 959                | 1044     | 1630     | 1027               | 1074     | 1253     |
| 857                | 967      | 1663     | 959                | 1122     | 1480     | 1027               | 1074     | 1462     |
| 857                | 974      | 1549     | 952                | 1245     | 1489     | 1027               | 1074     | 1669     |
| 857                | 974      | 1663     | 962                | 1245     | 1742     | 1027               | 1253     | 1462     |
| 857                | 1083     | 1663     | 962                | 1489     | 1742     | 1027               | 1253     | 1698     |
| 857                | 1549     | 1663     | 962                | 1489     | 1764     | 1027               | 1462     | 1669     |
| 867                | 1448     | 1599     | 962                | 1742     | 1764     | 1034               | 1653     | 1763     |
| 867                | 1448     | 1664     | 967                | 974      | 1549     | 1037               | 1387     | 1632     |
| 867                | 1599     | 1664     | 967                | 974      | 1663     | 1037               | 1387     | 1791     |
| 871                | 1120     | 1733     | 967                | 1083     | 1663     | 1037               | 1632     | 1791     |
| 871                | 1733     | 1736     | 967                | 1549     | 1663     | 1045               | 1340     | 1393     |
| 871                | 1733     | 1759     | 967                | 1496     | 1740     | 1045               | 1340     | 1486     |
| 871                | 1736     | 1759     | 974                | 1549     | 1663     | 1045               | 1383     | 1486     |
| 873                | 1055     | 1217     | 974                | 1549     | 1772     | 1045               | 1383     | 1638     |
| 877                | 1595     | 1703     | 975                | 1029     | 1223     | 1045               | 1486     | 1638     |
| 878                | 993      | 1389     | 975                | 1223     | 1440     | 1060               | 1167     | 1203     |
| 878                | 993      | 1443     | 981                | 980      | 1162     | 1060               | 1167     | 1328     |
| 878                | 993      | 1635     | 981                | 1162     | 1440     | 1060               | 1167     | 1377     |
| 878                | 993      | 1774     | 988                | 1027     | 1073     | 1060               | 1203     | 1328     |
| 878                | 1247     | 1389     | 988                | 1027     | 1253     | 1060               | 1203     | 1377     |
| 878                | 1247     | 1443     | 988                | 1027     | 1698     | 1060               | 1328     | 1377     |
| 878                | 1247     | 1774     | 988                | 1073     | 1162     | 1061               | 1302     | 1445     |
| 878                | 1389     | 1443     | 989                | 1073     | 1253     | 1061               | 1302     | 1487     |
| 878                | 1389     | 1535     | 988                | 1073     | 1698     | 1061               | 1302     | 1674     |
| 878                | 1389     | 1774     | 989                | 1253     | 1698     | 1061               | 1302     | 1697     |
| 878                | 1443     | 1635     | 991                | 1261     | 1305     | 1061               | 1445     | 1487     |
| 878                | 1443     | 1774     | 993                | 1289     | 1536     | 1061               | 1445     | 1674     |
| 878                | 1635     | 1774     | 993                | 1289     | 1570     | 1061               | 1445     | 1687     |
| 885                | 1004     | 1245     | 993                | 1289     | 1535     | 1061               | 1487     | 1674     |
| 901                | 1057     | 1420     | 993                | 1389     | 1443     | 1061               | 1487     | 1687     |
| 901                | 1147     | 1420     | 993                | 1389     | 1635     | 1061               | 1674     | 1697     |
| 901                | 1420     | 1661     | 993                | 1389     | 1774     | 1073               | 1253     | 1698     |
| 913                | 1063     | 1270     | 993                | 1443     | 1635     | 1074               | 1128     | 1253     |
| 917                | 1062     | 1077     | 993                | 1443     | 1774     | 1074               | 1253     | 1462     |
| 929                | 1296     | 1537     | 993                | 1536     | 1570     | 1074               | 1462     | 1669     |
| 929                | 1296     | 1561     | 993                | 1536     | 1635     | 1074               | 1462     | 1686     |
| 929                | 1307     | 1537     | 993                | 1570     | 1635     | 1074               | 1669     | 1686     |
| 929                | 1307     | 1561     | 993                | 1635     | 1774     | 1080               | 1188     | 1541     |
| 929                | 1307     | 1726     | 996                | 1340     | 1686     | 1080               | 1188     | 1790     |
| 929                | 1537     | 1726     | 1003               | 1082     | 1142     | 1080               | 1396     | 1541     |

TABLE I (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 1080               | 1396     | 1700     | 1218               | 1423     | 1544     | 1375               | 1563     | 1676     |
| 1080               | 1541     | 1790     | 1219               | 1472     | 1738     | 1383               | 1486     | 1638     |
| 1082               | 1142     | 1539     | 1229               | 1672     | 1691     | 1387               | 1632     | 1791     |
| 1082               | 1142     | 1624     | 1242               | 1416     | 1678     | 1389               | 1443     | 1635     |
| 1082               | 1247     | 1615     | 1245               | 1489     | 1742     | 1389               | 1443     | 1774     |
| 1082               | 1247     | 1782     | 1247               | 1389     | 1443     | 1389               | 1635     | 1774     |
| 1082               | 1539     | 1615     | 1247               | 1389     | 1774     | 1393               | 1563     | 1676     |
| 1082               | 1539     | 1624     | 1247               | 1443     | 1774     | 1415               | 1430     | 1559     |
| 1082               | 1539     | 1782     | 1247               | 1615     | 1782     | 1415               | 1430     | 1777     |
| 1082               | 1615     | 1782     | 1256               | 1307     | 1611     | 1415               | 1559     | 1777     |
| 1084               | 1352     | 1435     | 1258               | 1288     | 1598     | 1422               | 1494     | 1650     |
| 1091               | 1128     | 1578     | 1258               | 1288     | 1709     | 1422               | 1494     | 1692     |
| 1091               | 1156     | 1784     | 1258               | 1288     | 1714     | 1422               | 1650     | 1692     |
| 1096               | 1248     | 1427     | 1258               | 1598     | 1709     | 1423               | 1544     | 1741     |
| 1097               | 1539     | 1624     | 1258               | 1709     | 1714     | 1423               | 1545     | 1741     |
| 1110               | 1647     | 1716     | 1259               | 1261     | 1305     | 1430               | 1559     | 1777     |
| 1122               | 1412     | 1480     | 1259               | 1261     | 1761     | 1433               | 1639     | 1746     |
| 1125               | 1131     | 1336     | 1267               | 1381     | 1700     | 1443               | 1635     | 1774     |
| 1125               | 1131     | 1618     | 1272               | 1433     | 1639     | 1445               | 1487     | 1674     |
| 1125               | 1336     | 1618     | 1272               | 1433     | 1746     | 1445               | 1487     | 1687     |
| 1125               | 1674     | 1687     | 1272               | 1639     | 1746     | 1445               | 1674     | 1687     |
| 1131               | 1336     | 1618     | 1288               | 1598     | 1709     | 1448               | 1599     | 1664     |
| 1133               | 1327     | 1344     | 1288               | 1709     | 1714     | 1462               | 1669     | 1686     |
| 1133               | 1344     | 1522     | 1289               | 1536     | 1570     | 1479               | 1500     | 1501     |
| 1135               | 1267     | 1381     | 1289               | 1536     | 1635     | 1479               | 1500     | 1631     |
| 1135               | 1267     | 1700     | 1289               | 1570     | 1635     | 1479               | 1501     | 1631     |
| 1135               | 1381     | 1700     | 1292               | 1699     | 1706     | 1487               | 1581     | 1674     |
| 1137               | 1154     | 1511     | 1296               | 1561     | 1590     | 1487               | 1581     | 1778     |
| 1137               | 1154     | 1667     | 1302               | 1445     | 1487     | 1487               | 1674     | 1687     |
| 1137               | 1154     | 1680     | 1302               | 1445     | 1674     | 1489               | 1742     | 1762     |
| 1137               | 1511     | 1680     | 1302               | 1445     | 1687     | 1489               | 1742     | 1764     |
| 1137               | 1667     | 1680     | 1302               | 1487     | 1674     | 1489               | 1762     | 1764     |
| 1142               | 1539     | 1624     | 1302               | 1487     | 1687     | 1494               | 1650     | 1692     |
| 1150               | 1422     | 1494     | 1302               | 1674     | 1687     | 1500               | 1501     | 1631     |
| 1150               | 1422     | 1650     | 1303               | 1320     | 1765     | 1526               | 1717     | 1749     |
| 1150               | 1422     | 1692     | 1307               | 1537     | 1726     | 1533               | 1732     | 1755     |
| 1150               | 1494     | 1650     | 1307               | 1537     | 1752     | 1536               | 1570     | 1635     |
| 1150               | 1494     | 1692     | 1307               | 1561     | 1611     | 1537               | 1726     | 1752     |
| 1150               | 1650     | 1692     | 1307               | 1726     | 1752     | 1539               | 1615     | 1782     |
| 1154               | 1511     | 1680     | 1319               | 1661     | 1666     | 1576               | 1672     | 1691     |
| 1154               | 1667     | 1680     | 1324               | 1653     | 1763     | 1576               | 1672     | 1788     |
| 1167               | 1203     | 1328     | 1325               | 1501     | 1631     | 1576               | 1691     | 1788     |
| 1167               | 1203     | 1377     | 1327               | 1344     | 1393     | 1581               | 1623     | 1633     |
| 1167               | 1328     | 1377     | 1327               | 1393     | 1563     | 1581               | 1623     | 1778     |
| 1171               | 1331     | 1725     | 1327               | 1393     | 1676     | 1581               | 1633     | 1778     |
| 1171               | 1331     | 1748     | 1327               | 1563     | 1676     | 1623               | 1633     | 1778     |
| 1171               | 1725     | 1748     | 1331               | 1725     | 1748     | 1645               | 1704     | 1779     |
| 1183               | 1225     | 1768     | 1340               | 1383     | 1486     | 1668               | 1733     | 1736     |
| 1183               | 1332     | 1729     | 1343               | 1448     | 1599     | 1668               | 1733     | 1759     |
| 1188               | 1541     | 1790     | 1343               | 1448     | 1664     | 1668               | 1736     | 1759     |
| 1198               | 1319     | 1661     | 1343               | 1599     | 1664     | 1672               | 1691     | 1788     |
| 1198               | 1319     | 1666     | 1363               | 1442     | 1793     | 1733               | 1736     | 1759     |
| 1198               | 1661     | 1666     | 1375               | 1393     | 1563     | 1742               | 1762     | 1764     |
| 1203               | 1328     | 1377     | 1375               | 1393     | 1676     |                    |          |          |

TABLE II

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 10                 | 549      | 763      | 985      | 37                 | 66       | 1183     | 1768     |
| 16                 | 885      | 1004     | 1245     | 37                 | 66       | 1225     | 1768     |
| 19                 | 263      | 586      | 1442     | 37                 | 302      | 1225     | 1768     |
| 19                 | 263      | 586      | 1793     | 37                 | 615      | 1183     | 1225     |
| 19                 | 263      | 1363     | 1442     | 37                 | 1183     | 1225     | 1768     |
| 19                 | 263      | 1363     | 1793     | 39                 | 251      | 1533     | 1732     |
| 19                 | 263      | 1442     | 1793     | 39                 | 251      | 1533     | 1755     |
| 19                 | 570      | 586      | 1793     | 39                 | 251      | 1732     | 1755     |
| 19                 | 586      | 1442     | 1793     | 39                 | 1533     | 1732     | 1755     |
| 19                 | 1363     | 1442     | 1793     | 43                 | 211      | 514      | 901      |
| 20                 | 656      | 822      | 1229     | 43                 | 211      | 514      | 1147     |
| 20                 | 656      | 822      | 1638     | 43                 | 211      | 901      | 1057     |
| 20                 | 822      | 848      | 1229     | 43                 | 211      | 901      | 1147     |
| 20                 | 822      | 848      | 1363     | 43                 | 211      | 901      | 1420     |
| 20                 | 822      | 848      | 1672     | 43                 | 211      | 1057     | 1420     |
| 20                 | 822      | 1229     | 1363     | 43                 | 211      | 1147     | 1420     |
| 20                 | 822      | 1229     | 1672     | 43                 | 395      | 901      | 1057     |
| 20                 | 848      | 1229     | 1363     | 43                 | 395      | 901      | 1420     |
| 20                 | 848      | 1229     | 1672     | 43                 | 395      | 901      | 1661     |
| 21                 | 311      | 367      | 449      | 43                 | 395      | 1057     | 1420     |
| 21                 | 311      | 367      | 1745     | 43                 | 395      | 1420     | 1661     |
| 21                 | 311      | 449      | 1745     | 43                 | 514      | 501      | 1147     |
| 21                 | 311      | 1397     | 1745     | 43                 | 901      | 1057     | 1420     |
| 21                 | 367      | 449      | 1745     | 43                 | 901      | 1147     | 1420     |
| 24                 | 300      | 468      | 551      | 43                 | 901      | 1420     | 1661     |
| 24                 | 300      | 468      | 1074     | 44                 | 662      | 1111     | 1513     |
| 24                 | 300      | 468      | 1686     | 46                 | 878      | 1389     | 1443     |
| 24                 | 300      | 551      | 1686     | 47                 | 75       | 571      | 1541     |
| 24                 | 300      | 1074     | 1128     | 47                 | 75       | 571      | 1790     |
| 24                 | 300      | 1074     | 1462     | 47                 | 75       | 1080     | 1541     |
| 24                 | 300      | 1074     | 1669     | 47                 | 75       | 1080     | 1790     |
| 24                 | 300      | 1074     | 1686     | 47                 | 75       | 1541     | 1790     |
| 24                 | 300      | 1462     | 1669     | 47                 | 422      | 497      | 802      |
| 24                 | 300      | 1462     | 1686     | 47                 | 422      | 497      | 1188     |
| 24                 | 300      | 1669     | 1686     | 47                 | 422      | 802      | 1188     |
| 24                 | 468      | 551      | 1636     | 47                 | 497      | 571      | 802      |
| 24                 | 468      | 1074     | 1686     | 47                 | 497      | 571      | 1188     |
| 24                 | 1074     | 1462     | 1669     | 47                 | 497      | 571      | 1541     |
| 24                 | 1074     | 1462     | 1686     | 47                 | 497      | 802      | 1188     |
| 24                 | 1074     | 1669     | 1686     | 47                 | 497      | 1080     | 1188     |
| 24                 | 1462     | 1669     | 1686     | 47                 | 497      | 1080     | 1541     |
| 29                 | 380      | 711      | 1121     | 47                 | 497      | 1188     | 1541     |
| 33                 | 73       | 91       | 1204     | 47                 | 571      | 802      | 1188     |
| 33                 | 73       | 91       | 1610     | 47                 | 571      | 1188     | 1541     |
| 33                 | 73       | 1204     | 1610     | 47                 | 571      | 1188     | 1790     |
| 33                 | 91       | 208      | 1204     | 47                 | 571      | 1541     | 1790     |
| 33                 | 91       | 203      | 1610     | 47                 | 1080     | 1188     | 1541     |
| 33                 | 91       | 1204     | 1610     | 47                 | 1080     | 1188     | 1790     |
| 33                 | 208      | 1204     | 1610     | 47                 | 1080     | 1541     | 1790     |
| 37                 | 66       | 302      | 1225     | 47                 | 1180     | 1541     | 1790     |
| 37                 | 66       | 302      | 1768     | 53                 | 395      | 1055     | 1217     |
| 37                 | 66       | 615      | 1183     | 58                 | 114      | 163      | 723      |
| 37                 | 66       | 615      | 1225     | 58                 | 114      | 163      | 1668     |
| 37                 | 66       | 1183     | 1225     | 58                 | 114      | 723      | 794      |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>i</i>           | <i>h</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>h</i> | <i>l</i> | <i>m</i> |
| 58                 | 114      | 723      | 799      | 79                 | 168      | 305      | 460      |
| 58                 | 114      | 723      | 1668     | 79                 | 168      | 305      | 1200     |
| 58                 | 114      | 794      | 799      | 79                 | 168      | 460      | 1200     |
| 58                 | 163      | 723      | 1668     | 79                 | 305      | 460      | 1200     |
| 58                 | 723      | 794      | 799      | 81                 | 94       | 109      | 671      |
| 60                 | 1084     | 1352     | 1435     | 81                 | 94       | 109      | 843      |
| 62                 | 240      | 268      | 316      | 81                 | 94       | 671      | 843      |
| 62                 | 240      | 268      | 515      | 81                 | 109      | 671      | 843      |
| 62                 | 240      | 268      | 1623     | 81                 | 620      | 671      | 1018     |
| 62                 | 240      | 296      | 431      | 82                 | 126      | 175      | 1190     |
| 62                 | 240      | 296      | 515      | 82                 | 126      | 332      | 1190     |
| 62                 | 240      | 316      | 515      | 83                 | 254      | 340      | 1268     |
| 62                 | 240      | 316      | 1623     | 90                 | 222      | 279      | 767      |
| 62                 | 240      | 431      | 515      | 90                 | 222      | 279      | 1259     |
| 62                 | 268      | 316      | 515      | 90                 | 222      | 279      | 1761     |
| 62                 | 268      | 316      | 555      | 90                 | 222      | 767      | 1259     |
| 62                 | 268      | 316      | 1623     | 90                 | 222      | 767      | 1761     |
| 62                 | 296      | 431      | 515      | 90                 | 222      | 1259     | 1761     |
| 62                 | 296      | 515      | 1624     | 90                 | 279      | 621      | 936      |
| 63                 | 574      | 684      | 1279     | 90                 | 279      | 621      | 991      |
| 63                 | 1526     | 717      | 1749     | 90                 | 279      | 621      | 1259     |
| 64                 | 180      | 243      | 1079     | 90                 | 279      | 621      | 1261     |
| 64                 | 180      | 243      | 1100     | 90                 | 279      | 621      | 1305     |
| 64                 | 180      | 243      | 1497     | 90                 | 279      | 621      | 1761     |
| 64                 | 180      | 569      | 1100     | 90                 | 279      | 767      | 1259     |
| 64                 | 180      | 569      | 1497     | 90                 | 279      | 767      | 1261     |
| 64                 | 180      | 1079     | 1100     | 90                 | 279      | 767      | 1761     |
| 64                 | 180      | 1100     | 1497     | 90                 | 279      | 936      | 991      |
| 64                 | 243      | 1079     | 1100     | 90                 | 279      | 936      | 1261     |
| 64                 | 243      | 1079     | 1769     | 90                 | 279      | 936      | 1305     |
| 64                 | 243      | 1100     | 1497     | 90                 | 279      | 991      | 1261     |
| 64                 | 569      | 1100     | 1497     | 90                 | 279      | 991      | 1305     |
| 66                 | 302      | 1225     | 1768     | 90                 | 279      | 1259     | 1261     |
| 66                 | 615      | 1183     | 1225     | 90                 | 279      | 1259     | 1305     |
| 66                 | 1183     | 1225     | 1768     | 90                 | 279      | 1259     | 1761     |
| 67                 | 119      | 525      | 540      | 90                 | 279      | 1261     | 1305     |
| 67                 | 119      | 525      | 1632     | 90                 | 279      | 1261     | 1761     |
| 67                 | 119      | 540      | 1632     | 90                 | 621      | 936      | 991      |
| 67                 | 525      | 540      | 1632     | 90                 | 621      | 936      | 1261     |
| 73                 | 77       | 632      | 1610     | 90                 | 621      | 936      | 1305     |
| 73                 | 77       | 1610     | 1729     | 90                 | 621      | 991      | 1261     |
| 73                 | 91       | 1204     | 1610     | 90                 | 621      | 991      | 1305     |
| 73                 | 91       | 1332     | 1729     | 90                 | 621      | 1259     | 1261     |
| 73                 | 91       | 1610     | 1729     | 90                 | 621      | 1259     | 1305     |
| 73                 | 615      | 1332     | 1729     | 90                 | 621      | 1259     | 1761     |
| 75                 | 571      | 1541     | 1790     | 90                 | 621      | 1261     | 1305     |
| 75                 | 1080     | 1396     | 1541     | 90                 | 621      | 1261     | 1761     |
| 75                 | 1080     | 1396     | 1700     | 90                 | 767      | 1259     | 1261     |
| 75                 | 1080     | 1541     | 1790     | 90                 | 767      | 1259     | 1761     |
| 76                 | 150      | 703      | 1130     | 90                 | 767      | 1261     | 1761     |
| 76                 | 150      | 703      | 1150     | 90                 | 936      | 991      | 1261     |
| 76                 | 150      | 1130     | 1150     | 90                 | 936      | 991      | 1305     |
| 76                 | 150      | 1150     | 1692     | 90                 | 936      | 1261     | 1305     |
| 76                 | 703      | 1130     | 1150     | 90                 | 991      | 1261     | 1305     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 90                 | 1259     | 1261     | 1305     | 122                | 379      | 1247     | 1443     |
| 90                 | 1259     | 1261     | 1761     | 122                | 379      | 1247     | 1716     |
| 91                 | 203      | 1204     | 1610     | 122                | 379      | 1389     | 1443     |
| 94                 | 109      | 671      | 843      | 122                | 379      | 1389     | 1635     |
| 97                 | 191      | 903      | 1386     | 122                | 379      | 1389     | 1774     |
| 97                 | 191      | 903      | 1597     | 122                | 379      | 1443     | 1635     |
| 104                | 321      | 975      | 1223     | 122                | 379      | 1443     | 1774     |
| 106                | 131      | 1122     | 1412     | 122                | 379      | 1635     | 1774     |
| 106                | 131      | 1122     | 1480     | 122                | 878      | 993      | 1389     |
| 106                | 131      | 1412     | 1480     | 122                | 878      | 993      | 1443     |
| 106                | 959      | 1122     | 1480     | 122                | 878      | 993      | 1635     |
| 106                | 1122     | 1412     | 1480     | 122                | 878      | 993      | 1774     |
| 108                | 355      | 659      | 1135     | 122                | 878      | 1247     | 1389     |
| 108                | 355      | 659      | 1267     | 122                | 878      | 1247     | 1443     |
| 108                | 355      | 659      | 1381     | 122                | 878      | 1247     | 1774     |
| 109                | 355      | 1135     | 1267     | 122                | 878      | 1389     | 1443     |
| 108                | 355      | 1135     | 1381     | 122                | 878      | 1389     | 1635     |
| 108                | 355      | 1135     | 1700     | 122                | 878      | 1389     | 1774     |
| 108                | 355      | 1267     | 1381     | 122                | 878      | 1443     | 1635     |
| 108                | 355      | 1267     | 1700     | 122                | 878      | 1443     | 1774     |
| 108                | 355      | 1381     | 1700     | 122                | 878      | 1635     | 1774     |
| 108                | 659      | 1135     | 1267     | 122                | 993      | 1289     | 1536     |
| 108                | 659      | 1135     | 1381     | 122                | 993      | 1289     | 1570     |
| 108                | 659      | 1267     | 1381     | 122                | 993      | 1289     | 1635     |
| 108                | 1135     | 1267     | 1381     | 122                | 993      | 1389     | 1443     |
| 108                | 1135     | 1267     | 1700     | 122                | 993      | 1389     | 1635     |
| 108                | 1135     | 1381     | 1700     | 122                | 993      | 1389     | 1774     |
| 108                | 1267     | 1381     | 1700     | 122                | 993      | 1443     | 1635     |
| 110                | 1327     | 1344     | 1393     | 122                | 993      | 1443     | 1774     |
| 110                | 1327     | 1393     | 1563     | 122                | 993      | 1536     | 1570     |
| 110                | 1327     | 1393     | 1676     | 122                | 993      | 1536     | 1635     |
| 110                | 1327     | 1563     | 1676     | 122                | 993      | 1570     | 1635     |
| 110                | 1375     | 1393     | 1563     | 122                | 993      | 1635     | 1774     |
| 110                | 1375     | 1393     | 1676     | 122                | 1247     | 1389     | 1443     |
| 110                | 1375     | 1563     | 1676     | 122                | 1247     | 1389     | 1774     |
| 110                | 1393     | 1563     | 1676     | 122                | 1247     | 1443     | 1774     |
| 111                | 465      | 1324     | 1370     | 122                | 1289     | 1536     | 1570     |
| 114                | 163      | 723      | 1668     | 122                | 1289     | 1536     | 1635     |
| 114                | 723      | 794      | 794      | 122                | 1289     | 1570     | 1635     |
| 119                | 525      | 540      | 1387     | 122                | 1389     | 1443     | 1635     |
| 119                | 525      | 540      | 1632     | 122                | 1389     | 1443     | 1774     |
| 119                | 525      | 1387     | 1632     | 122                | 1389     | 1635     | 1774     |
| 119                | 540      | 1387     | 1632     | 122                | 1443     | 1635     | 1774     |
| 122                | 379      | 878      | 993      | 122                | 1536     | 1570     | 1635     |
| 122                | 379      | 878      | 1247     | 131                | 245      | 1122     | 1480     |
| 122                | 379      | 878      | 1389     | 131                | 245      | 1480     | 1517     |
| 122                | 379      | 875      | 1443     | 131                | 1122     | 1412     | 1480     |
| 122                | 379      | 878      | 1635     | 138                | 1218     | 1423     | 1544     |
| 122                | 379      | 878      | 1774     | 138                | 1423     | 1544     | 1741     |
| 122                | 379      | 993      | 1389     | 138                | 1423     | 1545     | 1741     |
| 122                | 379      | 993      | 1443     | 140                | 462      | 825      | 1131     |
| 122                | 379      | 993      | 1635     | 140                | 462      | 825      | 1618     |
| 122                | 379      | 993      | 1774     | 140                | 462      | 825      | 1684     |
| 122                | 379      | 1247     | 1389     | 140                | 462      | 1131     | 1618     |



TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 140                | 462      | 1553     | 1618     | 171                | 383      | 1061     | 1487     |
| 140                | 462      | 1618     | 1684     | 171                | 383      | 1061     | 1674     |
| 140                | 825      | 1131     | 1618     | 171                | 383      | 1061     | 1687     |
| 140                | 825      | 1618     | 1684     | 171                | 383      | 1302     | 1487     |
| 142                | 557      | 969      | 1496     | 171                | 383      | 1302     | 1674     |
| 142                | 557      | 969      | 1740     | 171                | 383      | 1302     | 1687     |
| 142                | 557      | 1496     | 1740     | 171                | 383      | 1487     | 1674     |
| 142                | 969      | 1496     | 1740     | 171                | 383      | 1487     | 1687     |
| 144                | 447      | 1450     | 1483     | 171                | 383      | 1674     | 1687     |
| 144                | 447      | 1450     | 1601     | 171                | 1061     | 1302     | 1487     |
| 147                | 270      | 499      | 1014     | 171                | 1061     | 1302     | 1674     |
| 149                | 954      | 1576     | 1672     | 171                | 1061     | 1302     | 1687     |
| 149                | 954      | 1576     | 1691     | 171                | 1061     | 1487     | 1674     |
| 149                | 954      | 1576     | 1788     | 171                | 1061     | 1487     | 1687     |
| 149                | 954      | 1672     | 1691     | 171                | 1061     | 1674     | 1687     |
| 149                | 954      | 1672     | 1788     | 171                | 1302     | 1487     | 1674     |
| 149                | 954      | 1691     | 1788     | 171                | 1302     | 1487     | 1687     |
| 149                | 1576     | 1672     | 1691     | 171                | 1302     | 1674     | 1687     |
| 149                | 1576     | 1672     | 1788     | 171                | 1487     | 1581     | 1674     |
| 149                | 1576     | 1691     | 1788     | 171                | 1487     | 1581     | 1778     |
| 149                | 1672     | 1691     | 1788     | 171                | 1487     | 1674     | 1687     |
| 150                | 703      | 1130     | 1150     | 177                | 658      | 717      | 1382     |
| 158                | 832      | 1645     | 1704     | 177                | 658      | 828      | 1382     |
| 158                | 832      | 1645     | 1779     | 178                | 223      | 492      | 641      |
| 158                | 832      | 1704     | 1779     | 178                | 223      | 492      | 981      |
| 158                | 1645     | 1704     | 1779     | 178                | 223      | 492      | 988      |
| 159                | 294      | 442      | 1492     | 178                | 223      | 492      | 1073     |
| 163                | 1668     | 1733     | 1736     | 178                | 223      | 492      | 1162     |
| 163                | 1668     | 1733     | 1759     | 178                | 223      | 641      | 981      |
| 163                | 1668     | 1736     | 1759     | 178                | 223      | 641      | 988      |
| 163                | 1733     | 1736     | 1759     | 178                | 223      | 641      | 1073     |
| 167                | 291      | 878      | 1247     | 178                | 223      | 641      | 1162     |
| 167                | 291      | 878      | 1389     | 178                | 223      | 981      | 988      |
| 167                | 291      | 878      | 1443     | 178                | 223      | 981      | 1162     |
| 167                | 291      | 878      | 1774     | 178                | 223      | 981      | 1440     |
| 167                | 291      | 1247     | 1389     | 178                | 223      | 988      | 1073     |
| 167                | 291      | 1247     | 1443     | 178                | 223      | 988      | 1162     |
| 167                | 291      | 1247     | 1774     | 178                | 223      | 1073     | 1162     |
| 167                | 291      | 1389     | 1443     | 178                | 223      | 1162     | 1440     |
| 167                | 291      | 1389     | 1774     | 178                | 492      | 641      | 981      |
| 167                | 291      | 1443     | 1774     | 178                | 492      | 641      | 988      |
| 167                | 315      | 1489     | 1762     | 178                | 492      | 641      | 1073     |
| 167                | 878      | 1247     | 1389     | 178                | 492      | 641      | 1162     |
| 167                | 878      | 1247     | 1443     | 178                | 492      | 981      | 988      |
| 167                | 878      | 1247     | 1774     | 178                | 492      | 981      | 1162     |
| 167                | 878      | 1389     | 1443     | 178                | 492      | 988      | 1073     |
| 167                | 878      | 1389     | 1774     | 178                | 492      | 988      | 1162     |
| 167                | 878      | 1443     | 1774     | 178                | 492      | 1073     | 1162     |
| 167                | 1247     | 1389     | 1443     | 178                | 641      | 981      | 988      |
| 167                | 1247     | 1389     | 1774     | 178                | 641      | 981      | 1162     |
| 167                | 1247     | 1443     | 1774     | 178                | 641      | 988      | 1073     |
| 167                | 1389     | 1443     | 1774     | 178                | 641      | 988      | 1162     |
| 168                | 305      | 460      | 1200     | 178                | 641      | 1073     | 1162     |
| 171                | 383      | 1061     | 1302     | 178                | 981      | 988      | 1162     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 178                | 981      | 1162     | 1440     | 244                | 650      | 1150     | 1542     |
| 178                | 988      | 1073     | 1162     | 244                | 703      | 1150     | 1542     |
| 179                | 322      | 441      | 896      | 244                | 1150     | 1422     | 1650     |
| 180                | 184      | 243      | 1079     | 245                | 1133     | 1344     | 1522     |
| 180                | 243      | 1079     | 1100     | 251                | 1533     | 1732     | 1755     |
| 180                | 243      | 1100     | 1497     | 254                | 340      | 1268     | 1744     |
| 180                | 569      | 1100     | 1497     | 261                | 274      | 452      | 534      |
| 189                | 540      | 1037     | 1387     | 261                | 274      | 534      | 580      |
| 189                | 540      | 1037     | 1791     | 261                | 274      | 580      | 1013     |
| 189                | 540      | 1387     | 1791     | 261                | 452      | 534      | 825      |
| 189                | 1037     | 1387     | 1791     | 261                | 452      | 534      | 1131     |
| 211                | 514      | 901      | 1147     | 261                | 452      | 534      | 1336     |
| 211                | 514      | 1109     | 1147     | 261                | 452      | 825      | 1131     |
| 211                | 901      | 1057     | 1420     | 261                | 452      | 825      | 1336     |
| 211                | 901      | 1147     | 1420     | 261                | 452      | 1131     | 1336     |
| 215                | 229      | 435      | 761      | 261                | 534      | 580      | 825      |
| 215                | 229      | 435      | 1358     | 261                | 534      | 580      | 1131     |
| 215                | 229      | 761      | 1358     | 261                | 534      | 580      | 1336     |
| 215                | 435      | 761      | 1358     | 261                | 534      | 825      | 1131     |
| 215                | 641      | 988      | 1073     | 261                | 534      | 825      | 1336     |
| 215                | 641      | 988      | 1698     | 261                | 534      | 1131     | 1336     |
| 215                | 641      | 1073     | 1698     | 261                | 580      | 825      | 1131     |
| 215                | 988      | 1027     | 1073     | 261                | 580      | 825      | 1336     |
| 215                | 988      | 1027     | 1698     | 261                | 580      | 1131     | 1336     |
| 215                | 988      | 1073     | 1698     | 261                | 825      | 1131     | 1336     |
| 215                | 1027     | 1073     | 1698     | 263                | 277      | 848      | 1363     |
| 222                | 279      | 767      | 1259     | 263                | 277      | 848      | 1442     |
| 222                | 279      | 767      | 1761     | 263                | 277      | 1363     | 1442     |
| 222                | 279      | 1259     | 1761     | 263                | 277      | 1363     | 1793     |
| 222                | 767      | 1259     | 1761     | 263                | 277      | 1442     | 1793     |
| 223                | 492      | 641      | 981      | 263                | 586      | 1442     | 1793     |
| 223                | 492      | 641      | 988      | 263                | 848      | 1363     | 1442     |
| 223                | 492      | 641      | 1073     | 263                | 1363     | 1442     | 1793     |
| 223                | 492      | 641      | 1162     | 268                | 316      | 938      | 1623     |
| 223                | 492      | 981      | 988      | 268                | 938      | 1623     | 1633     |
| 223                | 492      | 981      | 1162     | 275                | 334      | 736      | 1643     |
| 223                | 492      | 988      | 1073     | 275                | 334      | 1562     | 1648     |
| 223                | 492      | 988      | 1162     | 277                | 848      | 1363     | 1442     |
| 223                | 492      | 1073     | 1162     | 277                | 1363     | 1442     | 1793     |
| 223                | 641      | 981      | 938      | 279                | 621      | 936      | 591      |
| 223                | 641      | 981      | 1162     | 279                | 621      | 936      | 1261     |
| 223                | 641      | 988      | 1073     | 279                | 621      | 936      | 1305     |
| 223                | 641      | 988      | 1162     | 279                | 621      | 991      | 1261     |
| 223                | 641      | 1073     | 1162     | 279                | 621      | 991      | 1305     |
| 223                | 981      | 988      | 1162     | 279                | 621      | 1259     | 1261     |
| 223                | 981      | 1162     | 1440     | 279                | 621      | 1259     | 1305     |
| 223                | 988      | 1073     | 1162     | 279                | 621      | 1259     | 1761     |
| 229                | 435      | 761      | 1358     | 279                | 621      | 1261     | 1305     |
| 229                | 761      | 1029     | 1358     | 279                | 621      | 1261     | 1761     |
| 240                | 268      | 316      | 515      | 279                | 767      | 1259     | 1261     |
| 240                | 268      | 316      | 1623     | 279                | 767      | 1259     | 1761     |
| 240                | 296      | 431      | 515      | 279                | 767      | 1261     | 1761     |
| 244                | 650      | 703      | 1150     | 279                | 936      | 991      | 1261     |
| 244                | 650      | 703      | 1542     | 279                | 936      | 991      | 1305     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>w</i> |
| 279                | 936      | 1261     | 1305     | 308                | 834      | 1020     | 1671     |
| 279                | 991      | 1261     | 1305     | 309                | 333      | 708      | 841      |
| 279                | 1259     | 1261     | 1305     | 309                | 333      | 708      | 1481     |
| 279                | 1259     | 1261     | 1761     | 309                | 333      | 708      | 1608     |
| 291                | 317      | 461      | 1082     | 309                | 333      | 841      | 1481     |
| 291                | 317      | 461      | 1247     | 309                | 333      | 841      | 1609     |
| 291                | 317      | 461      | 1615     | 309                | 333      | 1481     | 1608     |
| 291                | 317      | 461      | 1782     | 309                | 708      | 841      | 1481     |
| 291                | 317      | 1082     | 1247     | 309                | 708      | 841      | 1608     |
| 291                | 317      | 1082     | 1615     | 309                | 708      | 1481     | 1608     |
| 291                | 317      | 1082     | 1764     | 309                | 841      | 1481     | 1608     |
| 291                | 317      | 1082     | 1782     | 311                | 367      | 449      | 1745     |
| 291                | 317      | 1247     | 1615     | 315                | 810      | 1489     | 1742     |
| 291                | 317      | 1247     | 1782     | 315                | 810      | 1489     | 1762     |
| 291                | 317      | 1615     | 1782     | 315                | 810      | 1489     | 1764     |
| 291                | 379      | 461      | 1247     | 315                | 810      | 1742     | 1762     |
| 291                | 379      | 461      | 1782     | 315                | 810      | 1742     | 1764     |
| 291                | 379      | 878      | 1247     | 315                | 810      | 1762     | 1764     |
| 291                | 379      | 878      | 1389     | 315                | 1489     | 1742     | 1762     |
| 291                | 379      | 878      | 1443     | 315                | 1489     | 1742     | 1764     |
| 291                | 379      | 878      | 1774     | 315                | 1489     | 1762     | 1764     |
| 291                | 379      | 1247     | 1389     | 315                | 1742     | 1762     | 1764     |
| 291                | 379      | 1247     | 1443     | 317                | 461      | 561      | 1082     |
| 291                | 379      | 1247     | 1774     | 317                | 461      | 561      | 1539     |
| 291                | 379      | 1247     | 1782     | 317                | 461      | 561      | 1615     |
| 291                | 379      | 1389     | 1443     | 317                | 461      | 561      | 1782     |
| 291                | 379      | 1389     | 1774     | 317                | 461      | 1082     | 1247     |
| 291                | 379      | 1443     | 1774     | 317                | 461      | 1082     | 1539     |
| 291                | 461      | 1082     | 1247     | 317                | 461      | 1082     | 1615     |
| 291                | 461      | 1082     | 1615     | 317                | 461      | 1082     | 1782     |
| 291                | 461      | 1082     | 1782     | 317                | 461      | 1247     | 1615     |
| 291                | 461      | 1247     | 1615     | 317                | 461      | 1247     | 1782     |
| 291                | 461      | 1247     | 1782     | 317                | 461      | 1539     | 1615     |
| 291                | 461      | 1615     | 1782     | 317                | 461      | 1539     | 1782     |
| 291                | 878      | 1247     | 1389     | 317                | 461      | 1615     | 1782     |
| 291                | 878      | 1247     | 1443     | 317                | 561      | 710      | 1003     |
| 291                | 878      | 1247     | 1774     | 317                | 561      | 710      | 1082     |
| 291                | 878      | 1389     | 1443     | 317                | 561      | 710      | 1539     |
| 291                | 878      | 1389     | 1774     | 317                | 561      | 710      | 1615     |
| 291                | 878      | 1443     | 1774     | 317                | 561      | 1003     | 1082     |
| 291                | 1082     | 1247     | 1615     | 317                | 561      | 1003     | 1539     |
| 291                | 1082     | 1247     | 1782     | 317                | 561      | 1003     | 1615     |
| 291                | 1082     | 1615     | 1782     | 317                | 561      | 1082     | 1539     |
| 291                | 1247     | 1389     | 1443     | 317                | 561      | 1082     | 1615     |
| 291                | 1247     | 1389     | 1774     | 317                | 561      | 1082     | 1782     |
| 291                | 1247     | 1443     | 1774     | 317                | 561      | 1539     | 1615     |
| 291                | 1247     | 1615     | 1782     | 317                | 561      | 1539     | 1782     |
| 291                | 1389     | 1443     | 1774     | 317                | 561      | 1615     | 1782     |
| 300                | 468      | 551      | 1686     | 317                | 710      | 1003     | 1082     |
| 300                | 468      | 1074     | 1686     | 317                | 710      | 1003     | 1539     |
| 300                | 1074     | 1462     | 1669     | 317                | 710      | 1003     | 1615     |
| 300                | 1074     | 1462     | 1686     | 317                | 710      | 1082     | 1539     |
| 300                | 1074     | 1669     | 1686     | 317                | 710      | 1082     | 1615     |
| 300                | 1462     | 1669     | 1686     | 317                | 710      | 1539     | 1615     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 317                | 1003     | 1082     | 1539     | 379                | 1247     | 1389     | 1774     |
| 317                | 1003     | 1082     | 1615     | 379                | 1247     | 1443     | 1774     |
| 317                | 1003     | 1539     | 1615     | 379                | 1389     | 1443     | 1635     |
| 317                | 1082     | 1247     | 1615     | 379                | 1389     | 1443     | 1774     |
| 317                | 1082     | 1247     | 1782     | 379                | 1389     | 1635     | 1774     |
| 317                | 1082     | 1539     | 1615     | 379                | 1443     | 1635     | 1774     |
| 317                | 1082     | 1539     | 1782     | 380                | 913      | 1063     | 1270     |
| 317                | 1082     | 1615     | 1732     | 383                | 1061     | 1302     | 1445     |
| 317                | 1247     | 1615     | 1782     | 383                | 1061     | 1302     | 1487     |
| 317                | 1539     | 1615     | 1782     | 383                | 1061     | 1302     | 1674     |
| 321                | 332      | 975      | 1029     | 383                | 1061     | 1302     | 1687     |
| 321                | 720      | 975      | 1029     | 383                | 1061     | 1445     | 1487     |
| 321                | 720      | 975      | 1223     | 383                | 1061     | 1445     | 1674     |
| 321                | 720      | 975      | 1440     | 383                | 1061     | 1445     | 1687     |
| 321                | 720      | 1029     | 1223     | 383                | 1061     | 1487     | 1674     |
| 321                | 720      | 1223     | 1440     | 383                | 1061     | 1487     | 1687     |
| 321                | 975      | 1029     | 1223     | 383                | 1061     | 1674     | 1687     |
| 321                | 975      | 1223     | 1440     | 383                | 1125     | 1674     | 1687     |
| 333                | 709      | 841      | 1481     | 383                | 1302     | 1445     | 1487     |
| 333                | 708      | 841      | 1608     | 383                | 1302     | 1445     | 1674     |
| 333                | 708      | 1481     | 1608     | 383                | 1302     | 1445     | 1687     |
| 333                | 841      | 1481     | 1608     | 383                | 1302     | 1487     | 1674     |
| 335                | 873      | 1055     | 1217     | 383                | 1302     | 1487     | 1687     |
| 353                | 758      | 1026     | 1056     | 383                | 1302     | 1674     | 1687     |
| 355                | 659      | 1135     | 1267     | 383                | 1445     | 1487     | 1674     |
| 355                | 659      | 1135     | 1381     | 383                | 1445     | 1487     | 1687     |
| 355                | 659      | 1267     | 1381     | 383                | 1445     | 1674     | 1687     |
| 355                | 1135     | 1267     | 1381     | 383                | 1487     | 1674     | 1687     |
| 355                | 1135     | 1267     | 1700     | 384                | 722      | 867      | 1448     |
| 355                | 1135     | 1381     | 1700     | 395                | 823      | 1057     | 1420     |
| 355                | 1267     | 1381     | 1700     | 395                | 901      | 1057     | 1420     |
| 360                | 653      | 807      | 1334     | 395                | 901      | 1420     | 1661     |
| 376                | 427      | 1298     | 1374     | 408                | 775      | 1297     | 1485     |
| 379                | 461      | 1247     | 1782     | 419                | 929      | 1296     | 1537     |
| 379                | 870      | 993      | 1389     | 419                | 929      | 1296     | 1561     |
| 379                | 878      | 993      | 1443     | 419                | 929      | 1307     | 1537     |
| 379                | 878      | 993      | 1635     | 419                | 929      | 1307     | 1561     |
| 379                | 878      | 993      | 1774     | 419                | 1296     | 1561     | 1590     |
| 379                | 878      | 1247     | 1389     | 422                | 497      | 802      | 1188     |
| 379                | 878      | 1247     | 1443     | 452                | 534      | 825      | 1125     |
| 379                | 878      | 1247     | 1774     | 452                | 534      | 825      | 1131     |
| 379                | 878      | 1389     | 1443     | 452                | 534      | 825      | 1336     |
| 379                | 878      | 1389     | 1635     | 452                | 534      | 1125     | 1131     |
| 379                | 878      | 1389     | 1774     | 452                | 534      | 1125     | 1336     |
| 379                | 878      | 1443     | 1635     | 452                | 534      | 1131     | 1336     |
| 379                | 878      | 1443     | 1774     | 452                | 825      | 1125     | 1131     |
| 379                | 878      | 1635     | 1774     | 452                | 825      | 1125     | 1336     |
| 379                | 993      | 1389     | 1443     | 452                | 825      | 1131     | 1336     |
| 379                | 993      | 1389     | 1635     | 452                | 1125     | 1131     | 1336     |
| 379                | 993      | 1389     | 1774     | 453                | 477      | 802      | 915      |
| 379                | 993      | 1443     | 1635     | 461                | 561      | 1082     | 1539     |
| 379                | 993      | 1443     | 1774     | 461                | 561      | 1082     | 1615     |
| 379                | 993      | 1635     | 1774     | 461                | 561      | 1082     | 1782     |
| 379                | 1247     | 1389     | 1443     | 461                | 561      | 1539     | 1615     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 461                | 561      | 1539     | 1782     | 526                | 710      | 1003     | 1539     |
| 461                | 561      | 1615     | 1782     | 526                | 710      | 1003     | 1624     |
| 461                | 1082     | 1247     | 1615     | 526                | 710      | 1142     | 1539     |
| 461                | 1082     | 1247     | 1782     | 526                | 710      | 1142     | 1624     |
| 461                | 1082     | 1539     | 1615     | 526                | 710      | 1539     | 1624     |
| 461                | 1082     | 1539     | 1782     | 526                | 851      | 1142     | 1624     |
| 461                | 1082     | 1615     | 1782     | 526                | 1003     | 1142     | 1539     |
| 461                | 1247     | 1615     | 1782     | 526                | 1003     | 1142     | 1624     |
| 461                | 1539     | 1615     | 1782     | 526                | 1003     | 1539     | 1624     |
| 462                | 825      | 1125     | 1131     | 526                | 1142     | 1539     | 1624     |
| 462                | 825      | 1125     | 1336     | 534                | 580      | 825      | 1131     |
| 462                | 825      | 1125     | 1618     | 534                | 580      | 825      | 1336     |
| 462                | 825      | 1131     | 1336     | 534                | 580      | 1131     | 1336     |
| 462                | 825      | 1131     | 1618     | 534                | 825      | 1125     | 1131     |
| 462                | 825      | 1336     | 1618     | 534                | 825      | 1125     | 1336     |
| 462                | 825      | 1618     | 1684     | 534                | 825      | 1131     | 1336     |
| 462                | 1125     | 1131     | 1336     | 534                | 1125     | 1131     | 1336     |
| 462                | 1125     | 1131     | 1618     | 540                | 1037     | 1387     | 1632     |
| 462                | 1125     | 1336     | 1618     | 540                | 1037     | 1387     | 1791     |
| 462                | 1131     | 1336     | 1618     | 540                | 1037     | 1632     | 1791     |
| 468                | 551      | 637      | 996      | 540                | 1387     | 1632     | 1791     |
| 468                | 551      | 637      | 1340     | 551                | 637      | 996      | 1340     |
| 468                | 551      | 637      | 1383     | 551                | 637      | 996      | 1686     |
| 468                | 551      | 637      | 1486     | 551                | 637      | 1340     | 1383     |
| 468                | 551      | 637      | 1686     | 551                | 637      | 1340     | 1486     |
| 468                | 551      | 996      | 1340     | 551                | 637      | 1340     | 1686     |
| 468                | 551      | 996      | 1686     | 551                | 637      | 1383     | 1486     |
| 468                | 551      | 1340     | 1383     | 551                | 996      | 1340     | 1686     |
| 468                | 551      | 1340     | 1486     | 551                | 1340     | 1383     | 1486     |
| 468                | 551      | 1340     | 1686     | 557                | 969      | 1496     | 1740     |
| 468                | 551      | 1383     | 1486     | 561                | 710      | 1003     | 1082     |
| 468                | 637      | 996      | 1340     | 561                | 710      | 1003     | 1097     |
| 468                | 637      | 996      | 1686     | 561                | 710      | 1003     | 1539     |
| 468                | 637      | 1340     | 1383     | 561                | 710      | 1003     | 1615     |
| 468                | 637      | 1340     | 1486     | 561                | 710      | 1082     | 1615     |
| 468                | 637      | 1340     | 1686     | 561                | 710      | 1097     | 1539     |
| 468                | 637      | 1383     | 1486     | 561                | 710      | 1097     | 1539     |
| 468                | 637      | 1383     | 1686     | 561                | 710      | 1539     | 1615     |
| 468                | 996      | 1340     | 1686     | 561                | 710      | 1539     | 1615     |
| 468                | 1340     | 1383     | 1486     | 561                | 1003     | 1082     | 1539     |
| 492                | 641      | 981      | 988      | 561                | 1003     | 1082     | 1615     |
| 492                | 641      | 981      | 1162     | 561                | 1003     | 1097     | 1539     |
| 492                | 641      | 988      | 1073     | 561                | 1003     | 1539     | 1615     |
| 492                | 641      | 988      | 1162     | 561                | 1082     | 1539     | 1615     |
| 492                | 641      | 988      | 1253     | 561                | 1082     | 1539     | 1782     |
| 492                | 641      | 1073     | 1162     | 561                | 1082     | 1615     | 1782     |
| 492                | 641      | 1073     | 1253     | 561                | 1539     | 1615     | 1782     |
| 492                | 981      | 988      | 1162     | 566                | 782      | 857      | 1091     |
| 492                | 988      | 1073     | 1162     | 566                | 782      | 857      | 1663     |
| 492                | 988      | 1073     | 1253     | 566                | 782      | 1083     | 1663     |
| 497                | 571      | 802      | 1188     | 566                | 857      | 1083     | 1663     |
| 497                | 571      | 1188     | 1541     | 571                | 1188     | 1541     | 1740     |
| 497                | 1080     | 1188     | 1541     | 574                | 684      | 1279     | 1697     |
| 525                | 540      | 1387     | 1632     | 580                | 825      | 1131     | 1336     |
| 526                | 710      | 1003     | 1142     | 580                | 825      | 1131     | 1618     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>h</i> | <i>l</i> | <i>m</i> |
| 580                | 825      | 1336     | 1618     | 710                | 1142     | 1539     | 1624     |
| 580                | 825      | 1618     | 1684     | 720                | 975      | 1029     | 1223     |
| 580                | 1131     | 1336     | 1618     | 720                | 975      | 1223     | 1440     |
| 615                | 1183     | 1332     | 1729     | 720                | 981      | 1162     | 1440     |
| 620                | 671      | 1018     | 1587     | 722                | 867      | 1448     | 1599     |
| 621                | 936      | 991      | 1261     | 722                | 867      | 1448     | 1664     |
| 621                | 936      | 991      | 1305     | 722                | 867      | 1599     | 1664     |
| 621                | 936      | 1261     | 1305     | 722                | 1448     | 1599     | 1664     |
| 621                | 991      | 1261     | 1305     | 725                | 750      | 1012     | 1009     |
| 621                | 1259     | 1261     | 1305     | 728                | 1154     | 1511     | 1680     |
| 621                | 1259     | 1261     | 1761     | 728                | 1154     | 1667     | 1680     |
| 637                | 846      | 1045     | 1340     | 767                | 1259     | 1261     | 1761     |
| 637                | 846      | 1045     | 1383     | 770                | 1219     | 1472     | 1738     |
| 637                | 846      | 1045     | 1486     | 782                | 857      | 567      | 1083     |
| 637                | 846      | 1340     | 1383     | 782                | 857      | 567      | 1663     |
| 637                | 846      | 1340     | 1486     | 782                | 857      | 1083     | 1663     |
| 637                | 846      | 1383     | 1486     | 782                | 967      | 1083     | 1663     |
| 637                | 996      | 1340     | 1686     | 810                | 962      | 1245     | 1489     |
| 637                | 1045     | 1340     | 1383     | 810                | 962      | 1245     | 1742     |
| 637                | 1045     | 1340     | 1486     | 810                | 962      | 1489     | 1742     |
| 637                | 1045     | 1383     | 1486     | 810                | 962      | 1489     | 1764     |
| 637                | 1340     | 1383     | 1486     | 810                | 562      | 1742     | 1764     |
| 641                | 981      | 988      | 1162     | 810                | 1004     | 1245     | 1742     |
| 641                | 988      | 1073     | 1162     | 810                | 1245     | 1489     | 1742     |
| 641                | 988      | 1073     | 1253     | 810                | 1489     | 1742     | 1762     |
| 641                | 988      | 1073     | 1698     | 810                | 1489     | 1742     | 1764     |
| 641                | 988      | 1253     | 1698     | 810                | 1489     | 1762     | 1764     |
| 641                | 1073     | 1253     | 1698     | 810                | 1742     | 1762     | 1764     |
| 650                | 703      | 1130     | 1150     | 811                | 1171     | 1331     | 1740     |
| 650                | 703      | 1150     | 1542     | 813                | 1375     | 1563     | 1676     |
| 659                | 1135     | 1267     | 1381     | 822                | 848      | 1229     | 1363     |
| 685                | 929      | 1307     | 1537     | 822                | 848      | 1229     | 1672     |
| 685                | 929      | 1307     | 1726     | 825                | 1125     | 1131     | 1336     |
| 685                | 929      | 1537     | 1726     | 825                | 1125     | 1131     | 1618     |
| 685                | 1307     | 1537     | 1726     | 825                | 1125     | 1336     | 1618     |
| 685                | 1307     | 1537     | 1752     | 825                | 1131     | 1336     | 1618     |
| 685                | 1307     | 1726     | 1752     | 832                | 1645     | 1704     | 1779     |
| 685                | 1537     | 1726     | 1752     | 834                | 1084     | 1352     | 1435     |
| 708                | 841      | 1481     | 1608     | 846                | 1045     | 1340     | 1383     |
| 710                | 1003     | 1082     | 1142     | 846                | 1045     | 1340     | 1486     |
| 710                | 1003     | 1082     | 1539     | 846                | 1045     | 1383     | 1486     |
| 710                | 1003     | 1082     | 1615     | 846                | 1045     | 1383     | 1638     |
| 710                | 1003     | 1082     | 1624     | 846                | 1045     | 1486     | 1638     |
| 710                | 1003     | 1097     | 1539     | 846                | 1340     | 1383     | 1486     |
| 710                | 1003     | 1097     | 1624     | 846                | 1383     | 1486     | 1638     |
| 710                | 1003     | 1142     | 1539     | 857                | 967      | 974      | 1549     |
| 710                | 1003     | 1142     | 1624     | 857                | 967      | 974      | 1663     |
| 710                | 1003     | 1539     | 1615     | 857                | 967      | 1083     | 1663     |
| 710                | 1003     | 1539     | 1624     | 857                | 967      | 1549     | 1663     |
| 710                | 1082     | 1142     | 1539     | 857                | 974      | 1549     | 1663     |
| 710                | 1082     | 1142     | 1624     | 867                | 1448     | 1599     | 1664     |
| 710                | 1082     | 1539     | 1615     | 871                | 1733     | 1736     | 1759     |
| 710                | 1082     | 1539     | 1624     | 878                | 993      | 1389     | 1443     |
| 710                | 1097     | 1539     | 1624     | 878                | 993      | 1389     | 1635     |

TABLE II (continued)

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 878                | 993      | 1389     | 1774     | 1061               | 1302     | 1445     | 1687     |
| 878                | 993      | 1443     | 1635     | 1061               | 1302     | 1445     | 1674     |
| 878                | 993      | 1443     | 1774     | 1061               | 1302     | 1445     | 1687     |
| 878                | 993      | 1635     | 1774     | 1061               | 1302     | 1487     | 1674     |
| 878                | 1247     | 1389     | 1443     | 1061               | 1302     | 1487     | 1687     |
| 878                | 1247     | 1389     | 1774     | 1061               | 1302     | 1674     | 1687     |
| 878                | 1247     | 1443     | 1774     | 1061               | 1445     | 1487     | 1674     |
| 878                | 1389     | 1443     | 1635     | 1061               | 1445     | 1487     | 1687     |
| 878                | 1389     | 1443     | 1774     | 1061               | 1445     | 1674     | 1687     |
| 878                | 1389     | 1635     | 1774     | 1061               | 1487     | 1674     | 1687     |
| 878                | 1443     | 1635     | 1774     | 1074               | 1462     | 1669     | 1686     |
| 929                | 1307     | 1537     | 1726     | 1083               | 1188     | 1541     | 1790     |
| 936                | 991      | 1261     | 1305     | 1082               | 1142     | 1539     | 1624     |
| 954                | 1576     | 1672     | 1691     | 1082               | 1247     | 1615     | 1792     |
| 954                | 1576     | 1672     | 1788     | 1082               | 1539     | 1615     | 1782     |
| 954                | 1576     | 1691     | 1788     | 1125               | 1131     | 1336     | 1618     |
| 954                | 1672     | 1691     | 1788     | 1135               | 1267     | 1381     | 1700     |
| 962                | 1245     | 1489     | 1742     | 1137               | 1154     | 1511     | 1680     |
| 967                | 1489     | 1742     | 1764     | 1137               | 1154     | 1667     | 1680     |
| 967                | 974      | 1549     | 1663     | 1150               | 1422     | 1494     | 1650     |
| 988                | 1027     | 1073     | 1253     | 1150               | 1422     | 1494     | 1692     |
| 988                | 1027     | 1073     | 1698     | 1150               | 1422     | 1650     | 1692     |
| 988                | 1027     | 1253     | 1698     | 1150               | 1494     | 1650     | 1692     |
| 988                | 1073     | 1253     | 1698     | 1167               | 1203     | 1328     | 1377     |
| 993                | 1289     | 1536     | 1570     | 1171               | 1331     | 1725     | 1748     |
| 993                | 1289     | 1536     | 1635     | 1198               | 1319     | 1661     | 1666     |
| 993                | 1289     | 1570     | 1635     | 1247               | 1389     | 1443     | 1774     |
| 993                | 1389     | 1443     | 1635     | 1258               | 1288     | 1598     | 1709     |
| 993                | 1389     | 1443     | 1774     | 1258               | 1288     | 1709     | 1714     |
| 993                | 1389     | 1635     | 1774     | 1272               | 1433     | 1639     | 1746     |
| 993                | 1443     | 1635     | 1774     | 1289               | 1536     | 1570     | 1634     |
| 993                | 1536     | 1570     | 1635     | 1302               | 1445     | 1487     | 1674     |
| 1003               | 1082     | 1142     | 1539     | 1302               | 1445     | 1487     | 1687     |
| 1003               | 1082     | 1142     | 1624     | 1302               | 1445     | 1674     | 1687     |
| 1003               | 1082     | 1539     | 1615     | 1302               | 1487     | 1674     | 1687     |
| 1003               | 1082     | 1539     | 1624     | 1307               | 1537     | 1726     | 1752     |
| 1003               | 1097     | 1539     | 1624     | 1327               | 1393     | 1563     | 1676     |
| 1003               | 1142     | 1539     | 1624     | 1343               | 1448     | 1555     | 1564     |
| 1027               | 1073     | 1253     | 1698     | 1375               | 1393     | 1563     | 1676     |
| 1027               | 1074     | 1253     | 1462     | 1389               | 1443     | 1635     | 1774     |
| 1027               | 1074     | 1462     | 1669     | 1415               | 1430     | 1559     | 1777     |
| 1037               | 1387     | 1632     | 1791     | 1422               | 1494     | 1650     | 1692     |
| 1045               | 1340     | 1383     | 1486     | 1445               | 1487     | 1674     | 1687     |
| 1045               | 1383     | 1486     | 1639     | 1479               | 1500     | 1501     | 1631     |
| 1060               | 1167     | 1203     | 1328     | 1499               | 1742     | 1762     | 1764     |
| 1060               | 1167     | 1203     | 1377     | 1576               | 1672     | 1691     | 1788     |
| 1060               | 1167     | 1328     | 1377     | 1581               | 1623     | 1639     | 1778     |
| 1060               | 1203     | 1328     | 1377     | 1668               | 1733     | 1736     | 1759     |

TABLE III

| Numbered Asteroids |          |          |          |          | Numbered Asteroids |          |          |          |          |
|--------------------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> |
| 19                 | 263      | 586      | 1442     | 1793     | 90                 | 279      | 621      | 1259     | 1761     |
| 19                 | 263      | 1363     | 1442     | 1793     | 90                 | 279      | 621      | 1261     | 1305     |
| 20                 | 822      | 848      | 1229     | 1363     | 90                 | 279      | 621      | 1261     | 1761     |
| 20                 | 822      | 848      | 1229     | 1672     | 90                 | 279      | 767      | 1259     | 1261     |
| 21                 | 311      | 367      | 449      | 1745     | 90                 | 279      | 767      | 1259     | 1761     |
| 24                 | 300      | 468      | 551      | 1686     | 90                 | 279      | 767      | 1261     | 1761     |
| 24                 | 300      | 468      | 1074     | 1686     | 90                 | 279      | 936      | 991      | 1261     |
| 24                 | 300      | 1074     | 1462     | 1669     | 90                 | 279      | 936      | 991      | 1305     |
| 24                 | 300      | 1074     | 1462     | 1686     | 90                 | 279      | 936      | 1261     | 1305     |
| 24                 | 300      | 1074     | 1669     | 1686     | 90                 | 279      | 991      | 1261     | 1305     |
| 24                 | 300      | 1462     | 1669     | 1686     | 90                 | 279      | 1259     | 1261     | 1305     |
| 24                 | 1074     | 1462     | 1669     | 1686     | 90                 | 279      | 1259     | 1261     | 1761     |
| 33                 | 73       | 91       | 1204     | 1610     | 90                 | 621      | 936      | 991      | 1261     |
| 33                 | 91       | 208      | 1204     | 1610     | 90                 | 621      | 936      | 991      | 1305     |
| 37                 | 66       | 302      | 1225     | 1768     | 90                 | 621      | 936      | 1261     | 1305     |
| 37                 | 66       | 615      | 1183     | 1225     | 90                 | 621      | 991      | 1261     | 1305     |
| 37                 | 66       | 1183     | 1225     | 1768     | 90                 | 621      | 1259     | 1261     | 1305     |
| 39                 | 251      | 1533     | 1732     | 1755     | 90                 | 621      | 1259     | 1261     | 1761     |
| 43                 | 211      | 514      | 901      | 1147     | 90                 | 767      | 1259     | 1261     | 1761     |
| 43                 | 211      | 901      | 1057     | 1420     | 90                 | 936      | 991      | 1261     | 1305     |
| 43                 | 211      | 901      | 1147     | 1420     | 108                | 131      | 1122     | 1412     | 1480     |
| 43                 | 395      | 901      | 1057     | 1420     | 108                | 355      | 659      | 1135     | 1267     |
| 43                 | 395      | 901      | 1420     | 1661     | 108                | 355      | 659      | 1135     | 1381     |
| 47                 | 75       | 571      | 1541     | 1790     | 108                | 355      | 659      | 1267     | 1381     |
| 47                 | 75       | 1080     | 1541     | 1790     | 108                | 355      | 1135     | 1267     | 1381     |
| 47                 | 422      | 497      | 802      | 1188     | 108                | 355      | 1135     | 1267     | 1706     |
| 47                 | 497      | 571      | 802      | 1188     | 108                | 355      | 1135     | 1381     | 1700     |
| 47                 | 497      | 571      | 1109     | 1541     | 108                | 355      | 1267     | 1381     | 1703     |
| 47                 | 497      | 1080     | 1188     | 1541     | 108                | 659      | 1135     | 1267     | 1381     |
| 47                 | 571      | 1188     | 1541     | 1790     | 108                | 1135     | 1267     | 1381     | 1700     |
| 47                 | 1080     | 1188     | 1541     | 1790     | 110                | 1327     | 1393     | 1563     | 1676     |
| 58                 | 114      | 163      | 723      | 1668     | 110                | 1375     | 1393     | 1563     | 1676     |
| 58                 | 114      | 723      | 794      | 799      | 119                | 525      | 540      | 1387     | 1632     |
| 62                 | 240      | 268      | 316      | 515      | 122                | 379      | 878      | 993      | 1389     |
| 62                 | 240      | 268      | 316      | 1623     | 122                | 379      | 878      | 993      | 1443     |
| 62                 | 240      | 296      | 431      | 515      | 122                | 379      | 878      | 993      | 1635     |
| 64                 | 180      | 243      | 1079     | 1100     | 122                | 379      | 878      | 993      | 1774     |
| 64                 | 180      | 243      | 1100     | 1497     | 122                | 379      | 878      | 1247     | 1389     |
| 64                 | 180      | 569      | 1100     | 1497     | 122                | 379      | 878      | 1247     | 1443     |
| 67                 | 119      | 525      | 540      | 1632     | 122                | 379      | 878      | 1247     | 1774     |
| 76                 | 150      | 703      | 1130     | 1150     | 122                | 379      | 878      | 1389     | 1443     |
| 79                 | 168      | 305      | 460      | 1200     | 122                | 379      | 878      | 1389     | 1635     |
| 81                 | 94       | 109      | 671      | 843      | 122                | 379      | 878      | 1389     | 1774     |
| 90                 | 222      | 279      | 767      | 1259     | 122                | 379      | 878      | 1443     | 1635     |
| 90                 | 222      | 279      | 767      | 1761     | 122                | 379      | 878      | 1443     | 1774     |
| 90                 | 222      | 279      | 1259     | 1761     | 122                | 379      | 878      | 1635     | 1774     |
| 90                 | 222      | 767      | 1259     | 1761     | 122                | 379      | 993      | 1389     | 1443     |
| 90                 | 279      | 621      | 936      | 991      | 122                | 379      | 993      | 1389     | 1635     |
| 90                 | 279      | 621      | 936      | 1261     | 122                | 379      | 993      | 1389     | 1774     |
| 90                 | 279      | 621      | 536      | 1305     | 122                | 379      | 993      | 1443     | 1635     |
| 90                 | 279      | 621      | 991      | 1261     | 122                | 379      | 993      | 1443     | 1774     |
| 90                 | 279      | 621      | 991      | 1305     | 122                | 379      | 993      | 1635     | 1774     |
| 90                 | 279      | 621      | 1259     | 1261     | 122                | 379      | 1247     | 1389     | 1443     |
| 90                 | 279      | 621      | 1259     | 1305     | 122                | 379      | 1247     | 1389     | 1774     |



TABLE III (continued)

| Numbered Asteroids |          |          |          |          | Numbered Asteroids |          |          |          |          |
|--------------------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> |
| 122                | 379      | 1247     | 1443     | 1774     | 171                | 383      | 1061     | 1302     | 1487     |
| 122                | 379      | 1389     | 1443     | 1635     | 171                | 383      | 1061     | 1302     | 1674     |
| 122                | 379      | 1389     | 1443     | 1774     | 171                | 383      | 1061     | 1302     | 1687     |
| 122                | 379      | 1389     | 1635     | 1774     | 171                | 383      | 1061     | 1487     | 1674     |
| 122                | 379      | 1443     | 1635     | 1774     | 171                | 383      | 1061     | 1407     | 1687     |
| 122                | 878      | 993      | 1389     | 1443     | 171                | 383      | 1061     | 1674     | 1687     |
| 122                | 878      | 993      | 1389     | 1635     | 171                | 383      | 1302     | 1487     | 1674     |
| 122                | 878      | 993      | 1389     | 1774     | 171                | 383      | 1302     | 1487     | 1687     |
| 122                | 878      | 993      | 1443     | 1635     | 171                | 383      | 1302     | 1674     | 1687     |
| 122                | 878      | 993      | 1443     | 1774     | 171                | 383      | 1487     | 1674     | 1687     |
| 122                | 878      | 993      | 1635     | 1774     | 171                | 1061     | 1302     | 1487     | 1674     |
| 122                | 878      | 1247     | 1389     | 1443     | 171                | 1061     | 1302     | 1487     | 1687     |
| 122                | 878      | 1247     | 1389     | 1774     | 171                | 1061     | 1302     | 1674     | 1687     |
| 122                | 878      | 1247     | 1443     | 1774     | 171                | 1061     | 1487     | 1674     | 1687     |
| 122                | 878      | 1389     | 1443     | 1635     | 171                | 1302     | 1487     | 1674     | 1687     |
| 122                | 878      | 1389     | 1443     | 1774     | 179                | 223      | 492      | 641      | 981      |
| 122                | 878      | 1389     | 1635     | 1774     | 179                | 223      | 492      | 641      | 988      |
| 122                | 878      | 1443     | 1635     | 1774     | 178                | 223      | 492      | 641      | 1073     |
| 122                | 993      | 1289     | 1536     | 1570     | 178                | 223      | 492      | 641      | 1162     |
| 122                | 993      | 1289     | 1536     | 1635     | 178                | 223      | 492      | 981      | 988      |
| 122                | 993      | 1289     | 1570     | 1635     | 178                | 223      | 492      | 981      | 1162     |
| 122                | 993      | 1389     | 1443     | 1635     | 178                | 223      | 492      | 988      | 1073     |
| 122                | 993      | 1389     | 1443     | 1774     | 178                | 223      | 492      | 988      | 1162     |
| 122                | 993      | 1389     | 1635     | 1774     | 178                | 223      | 492      | 1073     | 1162     |
| 122                | 993      | 1443     | 1635     | 1774     | 178                | 223      | 641      | 981      | 988      |
| 122                | 993      | 1536     | 1570     | 1635     | 178                | 223      | 641      | 981      | 1162     |
| 122                | 1247     | 1389     | 1443     | 1774     | 178                | 223      | 641      | 988      | 1073     |
| 122                | 1289     | 1536     | 1570     | 1635     | 178                | 223      | 641      | 988      | 1162     |
| 122                | 1389     | 1443     | 1635     | 1774     | 178                | 223      | 641      | 1073     | 1162     |
| 140                | 462      | 825      | 1131     | 1618     | 178                | 223      | 981      | 988      | 1162     |
| 140                | 462      | 825      | 1618     | 1684     | 178                | 223      | 981      | 1162     | 1440     |
| 142                | 557      | 969      | 1496     | 1740     | 178                | 223      | 988      | 1073     | 1162     |
| 149                | 954      | 1576     | 1672     | 1691     | 178                | 492      | 641      | 981      | 988      |
| 149                | 954      | 1576     | 1672     | 1788     | 178                | 492      | 641      | 981      | 1162     |
| 149                | 954      | 1576     | 1691     | 1788     | 178                | 492      | 641      | 988      | 1073     |
| 149                | 954      | 1672     | 1691     | 1788     | 178                | 492      | 641      | 988      | 1162     |
| 149                | 1576     | 1672     | 1691     | 1788     | 178                | 492      | 641      | 1073     | 1162     |
| 158                | 832      | 1645     | 1704     | 1779     | 178                | 492      | 981      | 988      | 1162     |
| 163                | 1668     | 1733     | 1736     | 1759     | 178                | 492      | 988      | 1073     | 1162     |
| 167                | 291      | 878      | 1247     | 1389     | 178                | 641      | 981      | 988      | 1162     |
| 167                | 291      | 878      | 1247     | 1443     | 178                | 641      | 988      | 1073     | 1162     |
| 167                | 291      | 878      | 1247     | 1774     | 189                | 540      | 1017     | 1387     | 1791     |
| 167                | 291      | 878      | 1389     | 1443     | 215                | 229      | 435      | 761      | 1358     |
| 167                | 291      | 878      | 1389     | 1774     | 215                | 641      | 988      | 1073     | 1698     |
| 167                | 291      | 878      | 1443     | 1774     | 215                | 988      | 1027     | 1073     | 1698     |
| 167                | 291      | 1247     | 1389     | 1443     | 222                | 275      | 767      | 1259     | 1761     |
| 167                | 291      | 1247     | 1389     | 1774     | 223                | 492      | 641      | 981      | 988      |
| 167                | 291      | 1247     | 1443     | 1774     | 223                | 492      | 641      | 981      | 1162     |
| 167                | 291      | 1389     | 1443     | 1774     | 223                | 492      | 641      | 988      | 1073     |
| 167                | 878      | 1247     | 1389     | 1443     | 223                | 492      | 641      | 988      | 1162     |
| 167                | 878      | 1247     | 1389     | 1774     | 223                | 492      | 641      | 1073     | 1162     |
| 167                | 878      | 1247     | 1443     | 1774     | 223                | 492      | 981      | 988      | 1162     |
| 167                | 878      | 1389     | 1443     | 1774     | 223                | 492      | 986      | 1073     | 1162     |
| 167                | 1247     | 1389     | 1443     | 1774     | 223                | 641      | 981      | 988      | 1162     |

TABLE III (continued)

| Numbered Asteroids |          |          |          |          | Numbered Asteroids |          |          |          |          |
|--------------------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> |
| 223                | 641      | 988      | 1073     | 1162     | 309                | 333      | 708      | 841      | 1608     |
| 244                | 650      | 703      | 1150     | 1542     | 309                | 333      | 708      | 1481     | 1608     |
| 261                | 452      | 534      | 825      | 1131     | 309                | 333      | 841      | 1481     | 1608     |
| 261                | 452      | 534      | 825      | 1336     | 309                | 708      | 841      | 1481     | 1508     |
| 261                | 452      | 534      | 1131     | 1336     | 315                | 810      | 1489     | 1742     | 1764     |
| 261                | 452      | 825      | 1131     | 1336     | 315                | 810      | 1489     | 1742     | 1764     |
| 261                | 534      | 580      | 825      | 1131     | 315                | 810      | 1489     | 1762     | 1764     |
| 261                | 534      | 580      | 825      | 1336     | 315                | 810      | 1742     | 1762     | 1764     |
| 261                | 534      | 580      | 1131     | 1336     | 315                | 1489     | 1742     | 1762     | 1764     |
| 261                | 534      | 825      | 1131     | 1336     | 317                | 461      | 561      | 1082     | 1539     |
| 261                | 580      | 825      | 1131     | 1336     | 317                | 461      | 561      | 1082     | 1615     |
| 263                | 277      | 848      | 1363     | 1442     | 317                | 461      | 561      | 1082     | 1782     |
| 263                | 277      | 1363     | 1442     | 1793     | 317                | 461      | 561      | 1539     | 1615     |
| 279                | 621      | 936      | 991      | 1261     | 317                | 461      | 561      | 1539     | 1782     |
| 279                | 621      | 936      | 991      | 1305     | 317                | 461      | 561      | 1615     | 1782     |
| 279                | 621      | 936      | 1261     | 1305     | 317                | 461      | 1082     | 1247     | 1615     |
| 279                | 621      | 991      | 1261     | 1305     | 317                | 461      | 1082     | 1247     | 1782     |
| 279                | 621      | 1259     | 1261     | 1305     | 317                | 461      | 1082     | 1539     | 1615     |
| 279                | 621      | 1259     | 1261     | 1761     | 317                | 461      | 1082     | 1539     | 1782     |
| 279                | 767      | 1259     | 1261     | 1761     | 317                | 461      | 1082     | 1615     | 1782     |
| 279                | 936      | 991      | 1261     | 1305     | 317                | 461      | 1247     | 1615     | 1782     |
| 291                | 317      | 461      | 1082     | 1247     | 317                | 461      | 1539     | 1615     | 1782     |
| 291                | 317      | 461      | 1082     | 1615     | 317                | 561      | 710      | 1003     | 1082     |
| 291                | 317      | 461      | 1082     | 1782     | 317                | 561      | 710      | 1003     | 1539     |
| 291                | 317      | 461      | 1247     | 1615     | 317                | 561      | 710      | 1003     | 1615     |
| 291                | 317      | 461      | 1247     | 1782     | 317                | 561      | 710      | 1082     | 1539     |
| 291                | 317      | 461      | 1615     | 1782     | 317                | 561      | 710      | 1082     | 1615     |
| 291                | 317      | 1082     | 1247     | 1615     | 317                | 561      | 710      | 1539     | 1615     |
| 291                | 317      | 1082     | 1247     | 1782     | 317                | 561      | 1003     | 1082     | 1539     |
| 291                | 317      | 1082     | 1615     | 1782     | 317                | 561      | 1003     | 1082     | 1615     |
| 291                | 317      | 1247     | 1615     | 1782     | 317                | 561      | 1003     | 1539     | 1615     |
| 291                | 379      | 461      | 1247     | 1782     | 317                | 561      | 1082     | 1539     | 1615     |
| 291                | 379      | 878      | 1247     | 1389     | 317                | 561      | 1082     | 1539     | 1782     |
| 291                | 379      | 878      | 1247     | 1443     | 317                | 561      | 1082     | 1615     | 1782     |
| 291                | 379      | 878      | 1247     | 1774     | 317                | 561      | 1539     | 1615     | 1782     |
| 291                | 379      | 878      | 1389     | 1443     | 317                | 710      | 1003     | 1082     | 1539     |
| 291                | 379      | 878      | 1389     | 1774     | 317                | 710      | 1003     | 1082     | 1615     |
| 291                | 379      | 878      | 1443     | 1774     | 317                | 710      | 1003     | 1539     | 1615     |
| 291                | 379      | 1247     | 1389     | 1443     | 317                | 710      | 1082     | 1539     | 1615     |
| 291                | 379      | 1247     | 1389     | 1774     | 317                | 1003     | 1082     | 1539     | 1615     |
| 291                | 379      | 1247     | 1443     | 1774     | 317                | 1082     | 1247     | 1615     | 1782     |
| 291                | 379      | 1389     | 1443     | 1774     | 317                | 1082     | 1539     | 1615     | 1782     |
| 291                | 461      | 1082     | 1247     | 1615     | 321                | 720      | 975      | 1024     | 1223     |
| 291                | 461      | 1082     | 1247     | 1782     | 321                | 720      | 975      | 1223     | 1440     |
| 291                | 461      | 1082     | 1615     | 1782     | 333                | 708      | 841      | 1481     | 1608     |
| 291                | 461      | 1247     | 1615     | 1782     | 355                | 659      | 1135     | 1267     | 1381     |
| 291                | 878      | 1247     | 1389     | 1443     | 355                | 1135     | 1267     | 1381     | 1700     |
| 291                | 878      | 1247     | 1389     | 1774     | 379                | 878      | 993      | 1389     | 1443     |
| 291                | 878      | 1247     | 1443     | 1774     | 379                | 878      | 993      | 1389     | 1635     |
| 291                | 878      | 1389     | 1443     | 1774     | 379                | 878      | 993      | 1389     | 1774     |
| 291                | 1082     | 1247     | 1615     | 1782     | 379                | 878      | 993      | 1443     | 1635     |
| 291                | 1247     | 1389     | 1443     | 1774     | 379                | 878      | 993      | 1443     | 1774     |
| 309                | 1074     | 1462     | 1669     | 1886     | 379                | 878      | 993      | 1635     | 1774     |
| 309                | 333      | 708      | 841      | 1481     | 379                | 878      | 1247     | 1389     | 1443     |

TABLE III (continued)

| Numbered Asteroids |          |          |          |          | Numbered Asteroids |          |          |          |          |
|--------------------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> |
| 379                | 878      | 1247     | 1389     | 1774     | 492                | 641      | 988      | 1073     | 1162     |
| 379                | 878      | 1247     | 1443     | 1774     | 492                | 641      | 988      | 1073     | 1253     |
| 379                | 878      | 1389     | 1443     | 1635     | 526                | 710      | 1003     | 1142     | 1539     |
| 379                | 878      | 1389     | 1443     | 1774     | 526                | 710      | 1003     | 1142     | 1624     |
| 379                | 878      | 1389     | 1635     | 1774     | 526                | 710      | 1003     | 1539     | 1624     |
| 379                | 878      | 1443     | 1635     | 1774     | 526                | 710      | 1142     | 1539     | 1624     |
| 379                | 993      | 1389     | 1443     | 1635     | 526                | 1003     | 1142     | 1539     | 1624     |
| 379                | 993      | 1389     | 1443     | 1774     | 534                | 825      | 1131     | 1336     |          |
| 379                | 993      | 1389     | 1635     | 1774     | 534                | 825      | 1125     | 1131     | 1336     |
| 379                | 993      | 1443     | 1635     | 1774     | 540                | 1037     | 1387     | 1632     | 1791     |
| 379                | 1247     | 1389     | 1443     | 1774     | 551                | 637      | 996      | 1340     | 1686     |
| 379                | 1389     | 1443     | 1635     | 1774     | 551                | 637      | 1340     | 1383     | 1486     |
| 383                | 1061     | 1302     | 1445     | 1487     | 561                | 710      | 1003     | 1082     | 1539     |
| 383                | 1061     | 1302     | 1445     | 1674     | 561                | 710      | 1003     | 1082     | 1615     |
| 383                | 1061     | 1302     | 1445     | 1687     | 561                | 710      | 1003     | 1097     | 1539     |
| 383                | 1061     | 1302     | 1487     | 1674     | 561                | 710      | 1003     | 1539     | 1615     |
| 383                | 1061     | 1302     | 1487     | 1687     | 561                | 710      | 1082     | 1539     | 1615     |
| 383                | 1061     | 1302     | 1674     | 1687     | 561                | 1003     | 1082     | 1539     | 1615     |
| 383                | 1061     | 1445     | 1487     | 1674     | 561                | 1082     | 1539     | 1615     | 1782     |
| 383                | 1061     | 1445     | 1487     | 1687     | 566                | 782      | 857      | 1083     | 1661     |
| 383                | 1061     | 1445     | 1674     | 1687     | 580                | 825      | 1131     | 1336     | 1618     |
| 383                | 1061     | 1487     | 1674     | 1687     | 621                | 936      | 991      | 1261     | 1305     |
| 383                | 1302     | 1445     | 1487     | 1674     | 637                | 946      | 1045     | 1340     | 1303     |
| 383                | 1302     | 1445     | 1487     | 1687     | 637                | 846      | 1045     | 1340     | 1486     |
| 383                | 1302     | 1445     | 1674     | 1687     | 637                | 846      | 1045     | 1383     | 1486     |
| 383                | 1302     | 1487     | 1674     | 1687     | 637                | 846      | 1340     | 1383     | 1486     |
| 383                | 1445     | 1487     | 1674     | 1697     | 637                | 1045     | 1340     | 1383     | 1406     |
| 452                | 534      | 825      | 1125     | 1131     | 641                | 988      | 1073     | 1253     | 1698     |
| 452                | 534      | 825      | 1125     | 1336     | 685                | 929      | 1307     | 1537     | 1726     |
| 452                | 534      | 825      | 1131     | 1336     | 685                | 1307     | 1537     | 1726     | 1752     |
| 452                | 534      | 1125     | 1131     | 1336     | 710                | 1003     | 1082     | 1142     | 1539     |
| 452                | 825      | 1125     | 1131     | 1336     | 710                | 1003     | 1082     | 1142     | 1624     |
| 461                | 561      | 1082     | 1539     | 1615     | 710                | 1003     | 1082     | 1539     | 1615     |
| 461                | 561      | 1082     | 1539     | 1782     | 710                | 1003     | 1082     | 1539     | 1624     |
| 461                | 561      | 1082     | 1615     | 1782     | 710                | 1003     | 1097     | 1539     | 1624     |
| 461                | 561      | 1539     | 1615     | 1782     | 710                | 1003     | 1142     | 1539     | 1624     |
| 461                | 1082     | 1247     | 1615     | 1782     | 710                | 1082     | 1142     | 1539     | 1624     |
| 461                | 1082     | 1539     | 1615     | 1782     | 722                | 867      | 1448     | 1599     | 1664     |
| 462                | 825      | 1125     | 1131     | 1336     | 782                | 857      | 967      | 1083     | 1663     |
| 462                | 825      | 1125     | 1131     | 1618     | 810                | 962      | 1245     | 1489     | 1742     |
| 462                | 825      | 1125     | 1336     | 1618     | 810                | 962      | 1489     | 1742     | 1764     |
| 462                | 825      | 1131     | 1336     | 1618     | 810                | 1489     | 1742     | 1762     | 1764     |
| 462                | 1125     | 1131     | 1336     | 1618     | 825                | 1125     | 1131     | 1336     | 1618     |
| 468                | 551      | 637      | 996      | 1340     | 846                | 1045     | 1340     | 1383     | 1486     |
| 468                | 551      | 637      | 996      | 1686     | 846                | 1045     | 1383     | 1486     | 1638     |
| 468                | 551      | 637      | 1340     | 1383     | 857                | 967      | 974      | 1549     | 1663     |
| 468                | 551      | 637      | 1340     | 1486     | 878                | 993      | 1389     | 1443     | 1635     |
| 468                | 551      | 637      | 1340     | 1686     | 878                | 993      | 1389     | 1443     | 1774     |
| 468                | 551      | 637      | 1383     | 1486     | 878                | 993      | 1389     | 1635     | 1774     |
| 468                | 551      | 996      | 1340     | 1686     | 878                | 993      | 1443     | 1635     | 1774     |
| 468                | 551      | 1340     | 1383     | 1486     | 878                | 1247     | 1389     | 1443     | 1774     |
| 468                | 637      | 996      | 1340     | 1686     | 878                | 1389     | 1443     | 1635     | 1774     |
| 468                | 637      | 1340     | 1383     | 1486     | 954                | 1576     | 1672     | 1691     | 1788     |
| 492                | 641      | 981      | 988      | 1162     | 985                | 1027     | 1073     | 1253     | 1698     |



TABLE IV (continued)

| Numbered Asteroids |          |          |          |          |          |
|--------------------|----------|----------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>n</i> | <i>o</i> |
| 122                | 993      | 1389     | 1443     | 1635     | 1774     |
| 146                | 954      | 1576     | 1672     | 1691     | 1788     |
| 167                | 291      | 878      | 1247     | 1389     | 1443     |
| 167                | 291      | 878      | 1247     | 1389     | 1774     |
| 167                | 291      | 878      | 1247     | 1443     | 1774     |
| 167                | 291      | 870      | 1399     | 1443     | 1774     |
| 167                | 291      | 1247     | 1389     | 1443     | 1774     |
| 167                | 878      | 1247     | 1389     | 1443     | 1774     |
| 171                | 383      | 1061     | 1302     | 1487     | 1674     |
| 171                | 383      | 1061     | 1302     | 1487     | 1687     |
| 171                | 383      | 1061     | 1302     | 1674     | 1687     |
| 171                | 383      | 1061     | 1487     | 1674     | 1687     |
| 171                | 383      | 1302     | 1487     | 1674     | 1687     |
| 171                | 1061     | 1302     | 1487     | 1674     | 1687     |
| 178                | 223      | 492      | 641      | 981      | 988      |
| 178                | 223      | 492      | 641      | 981      | 1162     |
| 178                | 223      | 492      | 641      | 988      | 1073     |
| 178                | 223      | 492      | 641      | 988      | 1162     |
| 178                | 223      | 492      | 641      | 1073     | 1162     |
| 178                | 223      | 492      | 641      | 988      | 1162     |
| 178                | 223      | 492      | 641      | 988      | 1162     |
| 178                | 223      | 641      | 981      | 988      | 1162     |
| 178                | 223      | 641      | 988      | 1073     | 1162     |
| 178                | 492      | 641      | 931      | 988      | 1162     |
| 178                | 492      | 641      | 989      | 1073     | 1162     |
| 223                | 492      | 641      | 981      | 988      | 1162     |
| 223                | 492      | 641      | 988      | 1073     | 1162     |
| 261                | 492      | 534      | 825      | 1131     | 1336     |
| 261                | 534      | 580      | 825      | 1131     | 1336     |
| 279                | 621      | 936      | 591      | 1261     | 1305     |
| 291                | 317      | 461      | 1082     | 1247     | 1615     |
| 291                | 317      | 461      | 1082     | 1247     | 1782     |
| 291                | 317      | 461      | 1082     | 1615     | 1782     |
| 291                | 317      | 461      | 1247     | 1615     | 1782     |
| 291                | 317      | 1082     | 1247     | 1615     | 1782     |
| 291                | 379      | 878      | 1247     | 1389     | 1443     |
| 291                | 379      | 878      | 1247     | 1389     | 1774     |
| 291                | 379      | 870      | 1247     | 1443     | 1774     |
| 291                | 379      | 870      | 1389     | 1443     | 1774     |
| 291                | 379      | 870      | 1389     | 1443     | 1774     |
| 291                | 379      | 1247     | 1389     | 1443     | 1774     |
| 291                | 461      | 1082     | 1247     | 1615     | 1782     |
| 291                | 878      | 1247     | 1389     | 1443     | 1774     |
| 309                | 383      | 709      | 241      | 1481     | 1608     |
| 315                | 310      | 1489     | 1742     | 1762     | 1764     |
| 317                | 461      | 561      | 1082     | 1539     | 1615     |
| 317                | 461      | 561      | 1082     | 1539     | 1782     |
| 317                | 461      | 561      | 1082     | 1615     | 1782     |
| 317                | 461      | 561      | 1539     | 1615     | 1782     |
| 317                | 461      | 1082     | 1247     | 1615     | 1782     |
| 317                | 461      | 1082     | 1539     | 1615     | 1782     |
| 317                | 561      | 710      | 1003     | 1082     | 1615     |
| 317                | 561      | 710      | 1003     | 1082     | 1615     |
| 317                | 561      | 710      | 1003     | 1539     | 1615     |
| 317                | 561      | 710      | 1082     | 1539     | 1615     |
| 317                | 561      | 1003     | 1082     | 1539     | 1615     |



TABLE VI

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 16                 | 1004     | 1245     | 122                | 379      | 1443     | 317                | 1539     | 1615     |
| 20                 | 822      | 1229     | 122                | 379      | 1774     | 321                | 975      | 1223     |
| 21                 | 311      | 449      | 122                | 993      | 1635     | 322                | 441      | 856      |
| 21                 | 311      | 1745     | 122                | 1443     | 1774     | 327                | 1418     | 1640     |
| 21                 | 367      | 449      | 131                | 1122     | 1412     | 333                | 708      | 841      |
| 24                 | 300      | 1074     | 131                | 1122     | 1480     | 333                | 708      | 1481     |
| 27                 | 1156     | 1784     | 131                | 1412     | 1480     | 333                | 841      | 1491     |
| 29                 | 711      | 1121     | 138                | 1545     | 1741     | 333                | 841      | 1609     |
| 33                 | 91       | 1204     | 140                | 462      | 1618     | 335                | 873      | 1217     |
| 33                 | 208      | 1204     | 142                | 557      | 969      | 335                | 1055     | 1217     |
| 37                 | 66       | 1229     | 142                | 557      | 1496     | 353                | 758      | 1026     |
| 43                 | 901      | 1420     | 142                | 969      | 1496     | 353                | 758      | 1056     |
| 47                 | 571      | 1790     | 144                | 1450     | 1601     | 353                | 1026     | 1056     |
| 47                 | 1188     | 1541     | 149                | 954      | 1576     | 355                | 659      | 1135     |
| 47                 | 1541     | 1790     | 149                | 954      | 1691     | 355                | 659      | 1267     |
| 58                 | 114      | 723      | 149                | 1576     | 1691     | 355                | 659      | 1301     |
| 62                 | 268      | 318      | 149                | 1576     | 1728     | 355                | 1135     | 1267     |
| 63                 | 574      | 1279     | 159                | 294      | 442      | 355                | 1135     | 1301     |
| 64                 | 569      | 1100     | 163                | 1663     | 1736     | 355                | 1267     | 1391     |
| 64                 | 569      | 1497     | 163                | 1668     | 1759     | 376                | 1258     | 1374     |
| 64                 | 1100     | 1497     | 163                | 1736     | 1759     | 379                | 1443     | 1774     |
| 67                 | 119      | 525      | 168                | 460      | 1200     | 393                | 1061     | 1302     |
| 75                 | 1541     | 1790     | 171                | 1487     | 1674     | 363                | 1061     | 1407     |
| 76                 | 150      | 1150     | 171                | 1581     | 1778     | 383                | 1061     | 1674     |
| 77                 | 632      | 1610     | 177                | 653      | 1392     | 383                | 1061     | 1687     |
| 79                 | 168      | 305      | 178                | 223      | 981      | 383                | 1302     | 1674     |
| 79                 | 168      | 460      | 180                | 1109     | 1497     | 383                | 1302     | 1687     |
| 79                 | 168      | 1200     | 184                | 243      | 1079     | 383                | 1487     | 1674     |
| 79                 | 460      | 1200     | 222                | 279      | 767      | 383                | 1487     | 1687     |
| 81                 | 94       | 109      | 223                | 981      | 1162     | 383                | 1674     | 1687     |
| 84                 | 227      | 1727     | 240                | 431      | 515      | 395                | 1057     | 1420     |
| 90                 | 279      | 1259     | 251                | 1533     | 1732     | 414                | 959      | 1655     |
| 90                 | 279      | 1261     | 254                | 340      | 1744     | 419                | 525      | 1537     |
| 90                 | 621      | 901      | 263                | 1363     | 1442     | 447                | 1450     | 1601     |
| 90                 | 621      | 1261     | 268                | 933      | 1623     | 452                | 534      | 1125     |
| 90                 | 1259     | 1261     | 270                | 396      | 1014     | 452                | 534      | 1336     |
| 94                 | 109      | 843      | 270                | 439      | 1014     | 452                | 1125     | 1336     |
| 97                 | 191      | 903      | 277                | 1363     | 1442     | 453                | 477      | 915      |
| 97                 | 903      | 1597     | 279                | 767      | 1259     | 461                | 561      | 1615     |
| 100                | 655      | 1104     | 279                | 767      | 1761     | 461                | 1615     | 1782     |
| 106                | 1122     | 1480     | 279                | 1259     | 1261     | 462                | 1131     | 1618     |
| 108                | 355      | 659      | 279                | 1259     | 1761     | 468                | 551      | 637      |
| 108                | 355      | 1135     | 296                | 431      | 515      | 468                | 551      | 1340     |
| 108                | 355      | 1267     | 309                | 333      | 708      | 468                | 551      | 1636     |
| 108                | 355      | 1301     | 309                | 333      | 841      | 468                | 637      | 1340     |
| 108                | 659      | 1135     | 309                | 333      | 1481     | 492                | 541      | 908      |
| 108                | 659      | 1267     | 309                | 333      | 1600     | 492                | 641      | 1073     |
| 108                | 659      | 1391     | 309                | 708      | 841      | 492                | 582      | 1073     |
| 108                | 1135     | 1267     | 309                | 708      | 1491     | 526                | 1142     | 1624     |
| 108                | 1135     | 1301     | 309                | 841      | 1481     | 525                | 742      | 1359     |
| 109                | 1267     | 1301     | 309                | 841      | 1608     | 524                | 1125     | 1336     |
| 110                | 1327     | 1393     | 315                | 1489     | 1762     | 548                | 1051     | 1604     |
| 114                | 723      | 794      | 317                | 1082     | 1539     | 549                | 762      | 985      |
| 119                | 540      | 1307     | 317                | 1082     | 1615     | 551                | 637      | 1340     |

TABLE VI (continued)

| Numbered Asteroids |          |          | Numbered Asteroids |          |          | Numbered Asteroids |          |          |
|--------------------|----------|----------|--------------------|----------|----------|--------------------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>j</i>           | <i>k</i> | <i>l</i> |
| 557                | 969      | 1496     | 782                | 957      | 967      | 1034               | 1653     | 1763     |
| 561                | 1539     | 1615     | 782                | 957      | 1003     | 1045               | 1302     | 1426     |
| 569                | 1100     | 1497     | 792                | 957      | 1663     | 1045               | 1302     | 1638     |
| 570                | 586      | 1753     | 782                | 957      | 1663     | 1061               | 1302     | 1445     |
| 574                | 684      | 1279     | 819                | 1489     | 1742     | 1061               | 1302     | 1674     |
| 621                | 936      | 1261     | 825                | 1131     | 1336     | 1061               | 1302     | 1687     |
| 621                | 936      | 1305     | 825                | 1131     | 1619     | 1061               | 1487     | 1674     |
| 621                | 991      | 1305     | 832                | 1645     | 1734     | 1061               | 1487     | 1697     |
| 621                | 1261     | 1305     | 832                | 1645     | 1779     | 1061               | 1674     | 1627     |
| 641                | 998      | 1073     | 832                | 1734     | 1779     | 1062               | 1639     | 1615     |
| 641                | 1073     | 1162     | 834                | 1734     | 1352     | 1122               | 1412     | 1480     |
| 650                | 703      | 1542     | 946                | 1045     | 1333     | 1125               | 1131     | 1336     |
| 653                | 807      | 1324     | 846                | 1045     | 1436     | 1125               | 1267     | 1381     |
| 658                | 717      | 1282     | 946                | 1045     | 1618     | 1167               | 1202     | 1322     |
| 659                | 1135     | 1267     | 846                | 1303     | 1486     | 1171               | 1331     | 1725     |
| 659                | 1135     | 1381     | 846                | 1303     | 1638     | 1199               | 1315     | 1666     |
| 659                | 1267     | 1381     | 857                | 967      | 1463     | 1247               | 1615     | 1782     |
| 662                | 1111     | 1513     | 979                | 1389     | 1443     | 1259               | 1288     | 1799     |
| 709                | 941      | 1481     | 378                | 1309     | 1774     | 1259               | 1536     | 1570     |
| 710                | 1003     | 1022     | 879                | 1443     | 1774     | 1302               | 1674     | 1697     |
| 710                | 1003     | 1539     | 929                | 1307     | 1537     | 1299               | 1442     | 1774     |
| 710                | 1082     | 1539     | 936                | 1261     | 1305     | 1415               | 1430     | 1559     |
| 720                | 975      | 1222     | 933                | 1623     | 1633     | 1427               | 1674     | 1687     |
| 723                | 794      | 799      | 954                | 1576     | 1691     | 1489               | 1742     | 1764     |
| 725                | 750      | 1089     | 974                | 1549     | 1663     | 1645               | 1704     | 1779     |
| 728                | 1154     | 1680     | 980                | 1073     | 1253     | 1669               | 1736     | 1759     |
| 758                | 1026     | 1056     | 993                | 1570     | 1636     | 1723               | 1736     | 1753     |
| 767                | 1259     | 1761     | 1003               | 1092     | 1539     |                    |          |          |
| 770                | 1219     | 1472     | 1003               | 1142     | 1624     |                    |          |          |

TABLE VII

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> | <i>j</i>           | <i>k</i> | <i>l</i> | <i>m</i> |
| 64                 | 569      | 1100     | 1497     | 149                | 954      | 1576     | 1691     |
| 79                 | 163      | 460      | 1200     | 163                | 1668     | 1736     | 1759     |
| 90                 | 279      | 1259     | 1261     | 279                | 767      | 1255     | 1761     |
| 108                | 355      | 659      | 1135     | 309                | 333      | 702      | 841      |
| 108                | 355      | 659      | 1267     | 309                | 333      | 702      | 1481     |
| 108                | 355      | 659      | 1381     | 309                | 333      | 841      | 1481     |
| 108                | 355      | 1135     | 1267     | 309                | 333      | 841      | 1603     |
| 108                | 355      | 1135     | 1381     | 309                | 702      | 841      | 1481     |
| 108                | 355      | 1267     | 1381     | 317                | 1082     | 1539     | 1615     |
| 108                | 659      | 1135     | 1267     | 333                | 702      | 841      | 1481     |
| 108                | 659      | 1135     | 1381     | 353                | 758      | 1026     | 1056     |
| 108                | 659      | 1267     | 1381     | 355                | 659      | 1135     | 1267     |
| 100                | 1135     | 1267     | 1381     | 355                | 659      | 1135     | 1381     |
| 122                | 179      | 1443     | 1774     | 355                | 659      | 1267     | 1381     |
| 131                | 1122     | 1412     | 1480     | 355                | 1135     | 1267     | 1381     |
| 142                | 557      | 969      | 1496     | 383                | 1061     | 1302     | 1674     |



| Numbered Asteroids |          |          |
|--------------------|----------|----------|
| <i>f</i>           | <i>h</i> | <i>l</i> |
| 79                 | 460      | 1200     |
| 321                | 975      | 1223     |
| 327                | 1418     | 1440     |

TABLE IX

| Numbered Asteroids |          |          |          |          |
|--------------------|----------|----------|----------|----------|
| <i>f</i>           | <i>h</i> | <i>l</i> | <i>m</i> | <i>n</i> |
| 105                | 355      | 659      | 1135     | 1267     |
| 108                | 355      | 659      | 1135     | 1301     |
| 108                | 355      | 659      | 1267     | 1391     |
| 108                | 355      | 659      | 1267     | 1381     |
| 109                | 659      | 1135     | 1267     | 1381     |
| 303                | 333      | 708      | 841      | 1481     |
| 355                | 659      | 1135     | 1267     | 1381     |
| 383                | 1061     | 1302     | 1674     | 1687     |
| 383                | 1061     | 1302     | 1674     | 1687     |
| 383                | 1061     | 1302     | 1674     | 1687     |

TABLE VIII

| Numbered Asteroids |          |          |          | Numbered Asteroids |          |          |          |
|--------------------|----------|----------|----------|--------------------|----------|----------|----------|
| <i>f</i>           | <i>h</i> | <i>l</i> | <i>m</i> | <i>f</i>           | <i>h</i> | <i>l</i> | <i>m</i> |
| 383                | 1061     | 1302     | 1687     | 659                | 1135     | 1267     | 1391     |
| 383                | 1061     | 1487     | 1674     | 782                | 857      | 1002     | 1530     |
| 383                | 1061     | 1674     | 1687     | 832                | 1045     | 1179     | 1663     |
| 383                | 1302     | 1674     | 1687     | 846                | 1045     | 1496     | 1779     |
| 383                | 1487     | 1674     | 1687     | 878                | 1045     | 1496     | 1779     |
| 452                | 534      | 1125     | 1336     | 946                | 1045     | 1496     | 1779     |
| 468                | 591      | 637      | 1349     | 978                | 1389     | 1443     | 1774     |
| 492                | 641      | 673      | 1305     | 1061               | 1302     | 1674     | 1687     |
| 621                | 936      | 1261     | 1305     | 1061               | 1487     | 1674     | 1687     |

TABLE VII (continued)



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