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**Table 1.** Table1. lb165-32 shadow direction. Column 1, 2, 3 are PPM, HD/DM and Tycho numbers. Column 4 and 5 Right ascension and declination (2000.0). Column 6, 7, 8, 9 and 11 V, b-y, $m_1$, $c_1$ and $\beta$ in magnitudes. Column 10 and 12 number of uvby and $\beta$ observations. Last column comments. D: unresolved duplicity in Tycho data, G: listed in GCVS, R: weak indication of duplicity combined with indication of variability in Tycho data, S: suspected duplicity from Tycho data, U: apparent variability, W: suspected variability. Stars without PPM, HD/DM or Tycho identification are listed by a working number in the last column

| PPM | HD/DM | Tycho | | | $\alpha$ | $\delta$ | V | b-y | $m_1$ | $c_1$ | n | $\beta$ | n | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 118989 | +18 0455 | 1240 | 710 | 1 | 03 18 4619 | 19 01 0100 | 10.666 | 0.556 | 0.323 | 0.372 | 3 | 2.580 | 3 | $\delta m_1$=-0.1 |
| 92384 | +19 0501 | 1240 | 363 | 1 | 03 18 5097 | 20 00 1640 | 9.239 | 0.261 | 0.141 | 0.681 | 3 | 2.669 | 3 | |
| 92393 | 20628 | 1240 | 399 | 1 | 03 19 5221 | 20 16 3790 | 8.355 | 0.153 | 0.188 | 0.922 | 3 | 2.799 | 3 | |
| 118910 | 19895 | 1240 | 868 | 1 | 03 12 3290 | 18 56 3710 | 8.417 | 0.334 | 0.150 | 0.354 | 3 | 2.632 | 3 | |
| 118928 | 20065 | 1236 | 233 | 1 | 03 14 0480 | 18 18 1570 | 8.136 | 0.396 | 0.176 | 0.270 | 3 | 2.612 | 3 | |
| 118943 | +18 0435 | 1236 | 568 | 1 | 03 14 5377 | 18 40 0060 | 9.515 | 0.382 | 0.158 | 0.333 | 3 | 2.580 | 3 | |
| 118948 | +18 0436 | 1236 | 733 | 1 | 03 15 0530 | 18 36 1530 | 10.300 | 0.366 | 0.157 | 0.476 | 3 | 2.605 | 3 | |
| 118966 | +18 0445 | 1240 | 260 | 1 | 03 16 4248 | 19 23 2690 | 9.715 | 0.318 | 0.149 | 0.443 | 3 | 2.671 | 3 | |
| 118987 | 20527 | 1236 | 182 | 1 | 03 18 4123 | 18 28 2260 | 8.735 | 0.437 | 0.245 | 0.334 | 3 | 2.605 | 3 | |
| 119002 | 20629 | 1240 | 796 | 1 | 03 19 4776 | 19 04 3460 | 7.409 | -.002 | 0.129 | 0.497 | 4 | 2.718 | 4 | G |
| | | 1236 | 742 | 1 | 03 18 2664 | 18 05 0280 | 9.835 | 0.329 | 0.119 | 0.480 | 3 | 2.622 | 3 | |
| | | 1236 | 855 | 1 | 03 19 1365 | 18 08 5330 | 10.717 | 0.421 | 0.137 | 0.465 | 3 | 2.655 | 3 | |
| 92496 | +19 0529 | 1241 | 896 | 1 | 03 25 5661 | 20 11 3340 | 10.332 | 0.215 | 0.175 | 0.841 | 3 | 2.753 | 3 | |
| 118880 | 19647 | 1225 | 392 | 1 | 03 10 1776 | 16 48 4870 | 7.707 | 0.039 | 0.120 | 0.992 | 4 | 2.807 | 4 | |
| 118893 | 19722 | 1225 | 80 | 1 | 03 11 0476 | 17 18 1470 | 8.457 | 0.341 | 0.151 | 0.376 | 3 | 2.631 | 3 | |
| 118906 | +19 0481 | 1240 | 958 | 1 | 03 12 2123 | 19 53 2930 | 10.035 | 0.358 | 0.149 | 0.351 | 3 | 2.613 | 3 | |
| 118915 | 19957 | 1236 | 512 | 1 | 03 13 0003 | 17 07 5610 | 8.514 | 0.312 | 0.152 | 0.446 | 3 | 2.627 | 3 | |
| 118937 | +16 0408 | 1232 | 64 | 1 | 03 14 3448 | 16 33 4170 | 10.453 | 0.322 | 0.169 | 0.396 | 3 | 2.652 | 3 | |
| 118950 | 20181 | 1232 | 536 | 1 | 03 15 0650 | 16 15 1940 | 8.443 | 0.360 | 0.148 | 0.472 | 3 | 2.645 | 3 | |
| 118981 | +15 0462 | 1232 | 434 | 1 | 03 18 1061 | 16 10 2840 | 10.482 | 0.440 | 0.168 | 0.439 | 3 | 2.575 | 3 | |
| 118985 | 20477 | 1236 | 260 | 1 | 03 18 2003 | 18 10 1870 | 7.519 | 0.399 | 0.194 | 0.372 | 6 | 2.604 | 6 | |
| 119018 | +15 0470 | 1233 | 355 | 1 | 03 20 3257 | 16 19 5880 | 9.206 | 0.266 | 0.209 | 0.827 | 3 | 2.799 | 3 | |
| 119037 | 20922 | 1233 | 640 | 1 | 03 22 5358 | 16 21 3530 | 8.863 | 0.336 | 0.170 | 0.387 | 3 | 2.637 | 3 | |
| 119048 | 20996 | 1233 | 299 | 1 | 03 23 5252 | 16 43 1690 | 8.492 | 0.260 | 0.150 | 0.532 | 3 | 2.686 | 3 | |
| | +17 0545 | 1237 | 1095 | 2 | 03 24 1431 | 17 32 5900 | 8.130 | 0.387 | 0.167 | 0.415 | 3 | 2.616 | 3 | |
| 119056 | | 1237 | 1095 | 1 | 03 24 1465 | 17 32 5620 | 8.131 | 0.381 | 0.174 | 0.427 | 3 | 2.606 | 3 | 119055? |
| 119059 | +18 0475 | 1241 | 1048 | 1 | 03 24 3330 | 19 03 4850 | 9.107 | 0.269 | 0.167 | 0.472 | 3 | 2.690 | 3 | |
| 119060 | +18 0476 | 1241 | 100 | 1 | 03 24 4181 | 19 24 0660 | 8.832 | 0.185 | 0.207 | 0.754 | 3 | 2.738 | 3 | |
| 119074 | +17 0552 | 1237 | 220 | 1 | 03 25 2666 | 17 50 0090 | 9.520 | 0.249 | 0.220 | 0.755 | 3 | 2.694 | 3 | |
| 119075 | +16 0440 | 1237 | 643 | 1 | 03 25 3083 | 17 08 3400 | 9.445 | 0.409 | 0.215 | 0.302 | 3 | 2.578 | 3 | |
| 119077 | +19 0527 | 1241 | 901 | 1 | 03 25 3991 | 19 32 1560 | 9.239 | 0.392 | 0.133 | 0.433 | 3 | 2.609 | 2 | |
| | | 1236 | 218 | 1 | 03 17 0880 | 17 12 5590 | 10.527 | 0.445 | 0.180 | 0.358 | 3 | 2.620 | 2 | |
| | | 1236 | 222 | 1 | 03 19 0350 | 17 20 1560 | 10.669 | 0.433 | 0.149 | 0.465 | 3 | 2.606 | 2 | |
| | | 1236 | 399 | 1 | 03 17 4510 | 18 37 0060 | 10.390 | 0.423 | 0.126 | 0.314 | 3 | 2.605 | 2 | |
| | | | | | 03 17 2990 | 18 01 1920 | 10.939 | 0.349 | 0.167 | 0.316 | 3 | 2.636 | 2 | 16532c037 |
| | | | | | 03 16 4210 | 17 46 2130 | 11.156 | 0.461 | 0.123 | 0.252 | 3 | 2.597 | 2 | 16532c042 |
| | | 1236 | 630 | 1 | 03 19 2530 | 17 15 3180 | 10.818 | 0.403 | 0.180 | 0.301 | 3 | 2.623 | 2 | |
| | | 1236 | 888 | 1 | 03 16 1790 | 17 31 4500 | 10.136 | 0.361 | 0.146 | 0.310 | 3 | 2.593 | 2 | |
| | | 1237 | 275 | 1 | 03 20 1060 | 18 16 0000 | 10.428 | 0.343 | 0.146 | 0.363 | 3 | 2.629 | 2 | |
| | +17 0535 | 1237 | 637 | 1 | 03 20 5590 | 17 37 1270 | 9.858 | 0.399 | 0.125 | 0.394 | 3 | 2.604 | 2 | |
| | | 1237 | 786 | 1 | 03 21 0200 | 17 13 3590 | 10.819 | 0.339 | 0.142 | 0.423 | 3 | 2.639 | 2 | |
| | | 1237 | 1020 | 1 | 03 21 0780 | 17 40 3830 | 10.414 | 0.422 | 0.150 | 0.310 | 3 | 2.601 | 2 | |
| | | | | | 03 19 4260 | 18 28 1220 | 11.234 | 0.387 | 0.185 | 0.287 | 3 | 2.583 | 2 | 16532e005 |
| | | | | | 03 21 3450 | 17 42 0000 | 11.510 | 0.380 | 0.157 | 0.386 | 3 | 2.656 | 2 | 16532e033 |
| | | 1237 | 544 | 1 | 03 20 0180 | 18 12 5980 | 10.971 | 0.367 | 0.135 | 0.397 | 3 | 2.608 | 2 | |
| | | 1237 | 938 | 1 | 03 22 3820 | 18 43 3580 | 10.975 | 0.371 | 0.099 | 0.536 | 3 | 2.690 | 2 | |
| | | 1241 | 784 | 1 | 03 20 1880 | 19 25 5450 | 10.492 | 0.460 | 0.175 | 0.350 | 3 | 2.583 | 2 | |
| | | 1236 | 466 | 1 | 03 15 5330 | 17 50 1310 | 11.005 | 0.433 | 0.119 | 0.451 | 3 | 2.620 | 2 | |
| | | 1236 | 682 | 1 | 03 15 3550 | 17 23 4290 | 10.862 | 0.441 | 0.124 | 0.416 | 3 | 2.609 | 2 | |
| | | 1236 | 697 | 1 | 03 16 0790 | 17 50 4030 | 10.990 | 0.372 | 0.147 | 0.387 | 3 | 2.654 | 2 | |
| | | 1236 | 1002 | 1 | 03 18 2040 | 18 35 0320 | 11.165 | 0.271 | 0.194 | 0.876 | 3 | 2.775 | 2 | |
| | | 1237 | 128 | 1 | 03 23 1280 | 18 36 3790 | 11.106 | 0.234 | 0.190 | 0.699 | 3 | 2.816 | 2 | V-$V_T$=0.5 |
| | | | | | 03 20 5370 | 19 06 4510 | 11.317 | 0.429 | 0.125 | 0.474 | 3 | 2.734 | 2 | 16532e069 |
| | | 1236 | 327 | 1 | 03 16 0860 | 18 38 0550 | 10.780 | 0.298 | 0.149 | 0.615 | 3 | 2.794 | 2 | |
| | | 1240 | 706 | 1 | 03 15 4730 | 19 13 3630 | 9.799 | 0.221 | 0.192 | 0.683 | 3 | 2.735 | 2 | |
| | | 1241 | 207 | 1 | 03 20 3410 | 19 10 4930 | 8.915 | 0.208 | 0.169 | 0.838 | 3 | 2.872 | 2 | D |
| | | 1236 | 892 | 1 | 03 13 3090 | 17 13 1980 | 10.974 | 0.252 | 0.173 | 0.667 | 3 | 2.728 | 2 | |

**Table 2.** Table 2. lb27-31 shadow direction. Column 1, 2, 3 are PPM, HD/DM and Tycho numbers. Column 4 and 5 Right ascension and declination (2000.0). Column 6, 7, 8, 9 and 11 V, b-y, $m_1$, $c_1$ and $\beta$ in magnitudes. Column 10 and 12 number of uvby and $\beta$ observations. Last column comments.D: unresolved duplicity in Tycho data, G: lised in GCVS, R: weak indication of duplicity combined with indication of variability in Tycho data, S: suspected duplicity from Tycho data, U: apparent variability, W: suspected variability. Stars without PPM, HD/DM or Tycho identification are listed by a working number in the last column

| PPM | HD/DM | Tycho | | | $\alpha$ | $\delta$ | V | b-y | $m_1$ | $c_1$ | n | $\beta$ | n | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6335 | 384 | 1 | 20 43 4350 | -18 29 049 | 10.949 | 0.370 | 0.149 | 0.455 | 3 | 2.735 | 3 | |
| | | 6335 | 1575 | 1 | 20 42 5980 | -17 58 360 | 10.986 | 0.314 | 0.145 | 0.584 | 3 | 2.745 | 3 | |
| | | 5331 | 16 | 1 | 20 47 0630 | -16 42 164 | 10.934 | 0.322 | 0.182 | 0.368 | 3 | 2.750 | 3 | |
| 237983 | 198320 | 6344 | 427 | 1 | 20 50 0600 | -16 32 583 | 10.097 | 0.212 | 0.166 | 0.766 | 3 | 2.753 | 3 | |
| | | | | | 20 38 1500 | -17 11 513 | 11.029 | 0.406 | 0.168 | 0.418 | 3 | 2.780 | 3 | 2731nw007 |
| | | 6338 | 511 | 1 | 20 38 3250 | -18 56 274 | 10.887 | 0.209 | 0.137 | 0.772 | 3 | 2.830 | 3 | |
| 722091 | 196582 | 6338 | 1763 | 1 | 20 38 5270 | -19 10 455 | 9.765 | 0.111 | 0.209 | 0.879 | 3 | 2.830 | 3 | |
| | | 6339 | 338 | 1 | 20 44 2870 | -19 06 086 | 10.821 | 0.372 | 0.136 | 0.469 | 3 | 2.651 | 3 | |
| 722149 | | 6339 | 365 | 1 | 20 42 3110 | -18 51 376 | 10.470 | 0.380 | 0.135 | 0.414 | 3 | 2.607 | 3 | |
| | | 6339 | 567 | 1 | 20 44 2010 | -18 53 025 | 10.817 | 0.272 | 0.171 | 0.493 | 3 | 2.700 | 3 | |
| 722156 | | 6339 | 860 | 1 | 20 42 4740 | -19 08 237 | 10.273 | 0.380 | 0.163 | 0.414 | 3 | 2.667 | 3 | |
| | | 6339 | 1742 | 1 | 20 44 3560 | -19 08 427 | 10.924 | 0.391 | 0.168 | 0.419 | 3 | 2.621 | 3 | |
| | | | | | 20 48 0210 | -18 49 177 | 10.805 | 0.328 | 0.136 | 0.391 | 3 | 2.647 | 3 | 27-31c042 |
| 722165 | | 6335 | 235 | 1 | 20 43 2360 | -17 46 183 | 10.438 | 0.382 | 0.151 | 0.370 | 3 | 2.624 | 3 | |
| | | 6335 | 807 | 1 | 20 45 2580 | -18 00 451 | 10.729 | 0.351 | 0.153 | 0.382 | 3 | 2.593 | 3 | |
| 722210 | | 6335 | 1000 | 1 | 20 46 2630 | -17 29 537 | 10.563 | 0.484 | 0.155 | 0.384 | 3 | 2.634 | 3 | |
| 722180 | | 6335 | 1037 | 1 | 20 44 1630 | -17 46 336 | 10.137 | 0.368 | 0.151 | 0.449 | 3 | 2.632 | 3 | D |
| | | | | | 20 42 5660 | -17 55 499 | 10.507 | 0.388 | 0.158 | 0.336 | 3 | 2.607 | 3 | 27-31c084 |
| 722224 | -17 6085 | 6331 | 35 | 1 | 20 47 3420 | -16 43 563 | 10.314 | 0.379 | 0.140 | 0.404 | 3 | 2.630 | 3 | |
| 722248 | 198276 | 6344 | 871 | 1 | 20 49 4250 | -16 33 144 | 10.358 | 0.313 | 0.124 | 0.438 | 3 | 2.685 | 3 | |
| 722231 | | 6344 | 1292 | 1 | 20 48 1900 | -16 51 483 | 10.750 | 0.420 | 0.182 | 0.336 | 3 | 2.592 | 3 | |
| 722244 | | 6344 | 1574 | 1 | 20 49 1530 | -16 30 075 | 10.320 | 0.421 | 0.140 | 0.419 | 3 | 2.634 | 3 | |
| | | 6334 | 743 | 1 | 20 39 1380 | -17 03 457 | 10.548 | 0.349 | 0.125 | 0.461 | 3 | 2.660 | 3 | |
| | | 6334 | 1515 | 1 | 20 38 0320 | -17 20 410 | 10.788 | 0.339 | 0.128 | 0.538 | 3 | 2.618 | 3 | |
| 722115 | | 6335 | 1022 | 1 | 20 40 2980 | -17 16 140 | 11.036 | 0.324 | 0.126 | 0.444 | 3 | 2.639 | 3 | |
| 722058 | 196286 | 6338 | 1786 | 1 | 20 36 5800 | -19 08 422 | 10.130 | 0.354 | 0.160 | 0.439 | 3 | 2.620 | 3 | |
| | | 6335 | 620 | 1 | 20 40 1280 | -18 27 122 | 10.584 | 0.318 | 0.109 | 0.500 | 3 | 2.673 | 3 | |
| 237685 | 196350 | 6334 | 935 | 1 | 20 37 1982 | -16 52 327 | 8.832 | 0.155 | 0.188 | 0.819 | 4 | 2.770 | 4 | |
| 237691 | 196353 | 6338 | 617 | 1 | 20 37 2801 | -19 15 099 | 9.516 | 0.150 | 0.165 | 0.860 | 3 | 2.805 | 3 | |
| 237708 | 196470 | 6334 | 1011 | 1 | 20 38 0981 | -17 30 064 | 9.732 | 0.192 | 0.304 | 0.616 | 3 | 2.843 | 3 | |
| 237732 | -19 5876 | 6338 | 1832 | 1 | 20 39 1334 | -19 20 243 | 10.005 | 0.099 | 0.206 | 0.924 | 3 | 2.855 | 3 | |
| 237753 | 196760 | 6330 | 805 | 1 | 20 39 5828 | -16 18 596 | 9.872 | 0.288 | 0.162 | 0.615 | 3 | 2.769 | 3 | |
| 237775 | 196934 | 6335 | 1720 | 1 | 20 40 5838 | -17 47 445 | 8.496 | 0.064 | 0.173 | 1.087 | 3 | 2.862 | 3 | |
| 237799 | 197091 | 6335 | 1400 | 1 | 20 41 5846 | -17 52 513 | 8.968 | 0.098 | 0.210 | 0.896 | 3 | 2.844 | 3 | |
| 237803 | 197145 | 6335 | 136 | 1 | 20 42 1571 | -18 35 407 | 9.023 | 0.171 | 0.177 | 0.803 | 3 | 2.794 | 3 | |
| 237812 | 197187 | 6335 | 1160 | 1 | 20 42 3979 | -18 06 348 | 7.348 | 0.188 | 0.195 | 0.817 | 6 | 2.752 | 6 | |
| 237827 | 197298 | 6331 | 140 | 1 | 20 43 2149 | -16 50 249 | 10.102 | 0.136 | 0.197 | 0.876 | 3 | 2.830 | 3 | |
| 237862 | 197522 | 6339 | 48 | 1 | 20 44 4722 | -18 49 205 | 10.259 | 0.127 | 0.200 | 0.984 | 3 | 2.880 | 3 | |
| 237906 | 197859 | 6335 | 1470 | 1 | 20 46 5137 | -17 59 480 | 9.814 | 0.307 | 0.141 | 0.535 | 3 | 2.730 | 3 | |
| 237956 | 198172 | 6348 | 1234 | 1 | 20 49 0436 | -16 57 006 | 9.628 | 0.147 | 0.196 | 0.815 | 3 | 2.827 | 3 | |
| 237962 | 198187 | 6348 | 1238 | 1 | 20 49 1190 | -17 04 311 | 9.858 | 0.190 | 0.163 | 0.775 | 3 | 2.770 | 3 | |
| 237996 | 198432 | 6348 | 1105 | 1 | 20 50 4909 | -18 13 570 | 9.194 | 0.225 | 0.161 | 0.683 | 3 | 2.750 | 3 | |
| 271784 | -20 6066 | 6352 | 1661 | 1 | 20 54 2767 | -20 09 504 | 10.586 | 0.333 | 0.112 | 0.530 | 3 | 2.732 | 3 | |
| | 198030 | 6348 | 1237 | 1 | 20 48 0858 | -16 55 245 | 9.879 | 0.209 | 0.200 | 0.709 | 3 | 2.776 | 3 | U, R |
| 237679 | 196311 | 6338 | 789 | 1 | 20 37 0634 | -19 26 519 | 10.132 | 0.296 | 0.144 | 0.461 | 3 | 2.666 | 3 | |
| 237689 | 196352 | 6334 | 1457 | 1 | 20 37 2401 | -17 46 466 | 9.447 | 0.288 | 0.153 | 0.470 | 3 | 2.664 | 3 | |
| 237709 | 196471 | 6338 | 1177 | 1 | 20 38 1195 | -18 47 353 | 8.670 | 0.254 | 0.146 | 0.553 | 4 | 2.690 | 4 | |
| 237716 | 196510 | 6334 | 1720 | 1 | 20 38 2778 | -18 38 306 | 8.878 | 0.253 | 0.149 | 0.535 | 3 | 2.698 | 3 | |
| 237729 | 196617 | 6330 | 1249 | 1 | 20 39 0431 | -16 33 343 | 7.182 | 0.311 | 0.146 | 0.463 | 5 | 2.662 | 5 | |
| 237740 | 196678 | 6338 | 459 | 1 | 20 39 2994 | -19 00 382 | 9.908 | 0.361 | 0.161 | 0.388 | 3 | 2.624 | 3 | |
| 237771 | 196892 | 6339 | 372 | 1 | 20 40 4940 | -18 47 334 | 8.245 | 0.347 | 0.103 | 0.340 | 4 | 2.612 | 4 | |
| 237781 | 196980 | 6335 | 730 | 1 | 20 41 1319 | -17 41 009 | 9.720 | 0.269 | 0.141 | 0.563 | 3 | 2.627 | 3 | W |
| 237785 | 196996 | 6335 | 1332 | 1 | 20 41 1941 | -17 35 549 | 9.298 | 0.330 | 0.146 | 0.374 | 3 | 2.601 | 3 | |
| 237819 | 197212 | 6339 | 299 | 1 | 20 42 5769 | -19 29 131 | 8.571 | 0.481 | 0.123 | 0.322 | 4 | 2.625 | 4 | |
| 237825 | -17 6064 | 6335 | 1356 | 1 | 20 43 1846 | -17 01 086 | 10.134 | 0.410 | 0.189 | 0.326 | 3 | 2.623 | 3 | |
| 237832 | 197318 | 6339 | 384 | 1 | 20 43 3051 | -19 06 515 | 9.551 | 0.360 | 0.181 | 0.349 | 3 | 2.636 | 3 | S,V-$V_T$=-0.3 |
| 237838 | | 6339 | 881 | 1 | 20 43 4245 | -19 14 173 | 10.278 | 0.400 | 0.150 | 0.377 | 3 | 2.596 | 3 | |
| 237842 | 197381 | 6331 | 132 | 1 | 20 43 5292 | -16 45 422 | 9.646 | 0.276 | 0.129 | 0.616 | 3 | 2.711 | 3 | |
| 237843 | 197401 | 6335 | 961 | 1 | 20 43 5396 | -17 43 050 | 9.799 | 0.313 | 0.107 | 0.525 | 3 | 2.651 | 3 | |
| 237879 | 197710 | 6335 | 1577 | 1 | 20 45 5907 | -18 18 074 | 9.701 | 0.378 | 0.141 | 0.442 | 3 | 2.647 | 3 | |

**Table 3.** Table 3. lb329+46 shadow direction. Column 1, 2, 3 are PPM, HD/DM and Tycho numbers. Column 4 and 5 Right ascension and declination (2000.0). Column 6, 7, 8, 9 and 11 V, b-y, $m_1$, $c_1$ and $\beta$ in magnitudes. Column 10 and 12 number of uvby and $\beta$ observations. Last column comments. D: unresolved duplicity in Tycho data, G: listed in GCVS, R: weak indication of duplicity combined with indication of variability in Tycho data, S: suspected duplicity from Tycho data, U: apparent variability, W: suspected variability. Stars without PPM, HD/DM or Tycho identification are listed by a working number in the last column

| PPM | HD/DM | Tycho | | | $\alpha$ | $\delta$ | V | b-y | $m_1$ | $c_1$ | n | $\beta$ | n | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 228282 | 123102 | 5560 | 1469 | 1 | 14 05 5750 | -13 04 120 | 9.081 | 0.215 | 0.176 | 0.676 | 3 | 2.771 | 3 | multiple |
| 228281 | 123103 | 5560 | 1470 | 1 | 14 05 5750 | -13 04 250 | 9.074 | 0.227 | 0.157 | 0.664 | 3 | 2.758 | 3 | |
| 228076 | 121784 | 5557 | 1457 | 1 | 13 57 4750 | -11 32 117 | 8.131 | 0.116 | 0.218 | 0.900 | 4 | 2.847 | 4 | |
| 228279 | 123088 | 5560 | 1168 | 1 | 14 05 5570 | -13 15 525 | 10.138 | 0.409 | 0.164 | 0.345 | 3 | 2.631 | 3 | |
| | | | | | 14 09 5130 | -13 15 481 | 11.317 | 0.444 | 0.172 | 0.294 | 3 | 2.584 | 3 | 32946e014 |
| 717492 | 123765 | 5561 | 1310 | 1 | 14 09 5270 | -12 49 412 | 9.863 | 0.419 | 0.186 | 0.295 | 3 | 2.609 | 3 | |
| 228253 | -11 3661 | 5560 | 3 | 1 | 14 04 4940 | -12 30 098 | 10.492 | 0.447 | 0.226 | 0.248 | 3 | 2.592 | 3 | |
| 228278 | 123087 | 5560 | 565 | 1 | 14 05 5210 | -12 42 117 | 8.305 | 0.302 | 0.141 | 0.420 | 3 | 2.680 | 4 | |
| 228222 | -12 3949 | 5560 | 1030 | 1 | 14 03 3990 | -13 05 489 | 10.613 | 0.360 | 0.158 | 0.400 | 3 | 2.644 | 3 | |
| 228200 | -12 3947 | 5560 | 1200 | 1 | 14 02 5640 | -12 43 050 | 10.716 | 0.423 | 0.216 | 0.273 | 3 | 2.580 | 3 | |
| 228134 | 122124 | 5560 | 1079 | 1 | 14 00 0430 | -12 42 242 | 9.483 | 0.367 | 0.146 | 0.318 | 3 | 2.648 | 3 | |
| 228089 | 121866 | 5560 | 1135 | 1 | 13 58 1810 | -12 37 313 | 9.567 | 0.363 | 0.146 | 0.431 | 3 | 2.685 | 3 | |
| 228175 | 122390 | 5557 | 651 | 1 | 14 01 5270 | -11 28 214 | 9.080 | 0.333 | 0.141 | 0.363 | 3 | 2.662 | 3 | |
| 228184 | -10 3807 | 5557 | 740 | 1 | 14 02 2590 | -11 19 498 | 10.401 | 0.316 | 0.151 | 0.455 | 3 | 2.690 | 3 | W |
| 228147 | -10 3799 | 5557 | 947 | 1 | 14 00 4740 | -11 26 071 | 10.427 | 0.436 | 0.151 | 0.352 | 3 | 2.617 | 3 | |
| 228132 | 122107 | 5560 | 178 | 1 | 14 00 0250 | -13 43 009 | 9.556 | 0.292 | 0.144 | 0.639 | 3 | 2.757 | 3 | |
| 228201 | 122565 | 5557 | 798 | 1 | 14 02 5695 | -10 27 564 | 8.707 | 0.191 | 0.171 | 0.788 | 4 | 2.770 | 3 | |
| 228217 | 122658 | 5557 | 627 | 1 | 14 03 2727 | -10 58 023 | 7.636 | 0.162 | 0.228 | 0.899 | 4 | 2.815 | 3 | |
| 228281 | 123103 | 5560 | 1470 | 1 | 14 05 5737 | -13 04 251 | 9.028 | 0.227 | 0.163 | 0.670 | 3 | 2.788 | 3 | |
| 228456 | 124249 | 5561 | 229 | 1 | 14 12 4341 | -13 11 560 | 9.669 | 0.172 | 0.197 | 0.798 | 3 | 2.848 | 3 | |
| 228461 | 124275 | 5561 | 829 | 1 | 14 12 5452 | -14 10 205 | 8.866 | 0.169 | 0.208 | 0.796 | 3 | 2.860 | 3 | |
| 228069 | | | | | 13 57 3545 | -11 06 485 | 10.781 | 0.393 | 0.151 | 0.371 | 3 | 2.625 | 2 | |
| 228080 | 121830 | 5557 | 1426 | 1 | 13 58 0313 | -10 05 265 | 9.396 | 0.282 | 0.147 | 0.502 | 3 | 2.710 | 3 | |
| 228084 | -13 3800 | 5560 | 526 | 1 | 13 58 1093 | -14 01 365 | 10.201 | 0.340 | 0.145 | 0.432 | 3 | 2.691 | 3 | |
| 228091 | 121882 | 5557 | 1372 | 1 | 13 58 2554 | -11 09 267 | 9.538 | 0.317 | 0.134 | 0.458 | 3 | 2.658 | 3 | |
| 228116 | 122025 | 5557 | 205 | 1 | 13 59 2299 | -10 44 043 | 9.779 | 0.414 | 0.177 | 0.338 | 3 | 2.598 | 3 | |
| 228133 | 122123 | 5557 | 694 | 1 | 14 00 0364 | -11 47 088 | 8.650 | 0.345 | 0.150 | 0.353 | 3 | 2.618 | 3 | |
| 228139 | 122170 | 5560 | 1176 | 1 | 14 00 2397 | -14 13 202 | 9.785 | 0.335 | 0.153 | 0.380 | 3 | 2.637 | 3 | |
| 228157 | | 5557 | 1148 | 1 | 14 01 1401 | -10 22 384 | 8.864 | 0.314 | 0.128 | 0.485 | 3 | 2.655 | 3 | |
| 228158 | 122304 | 5560 | 879 | 1 | 14 01 2310 | -12 55 063 | 9.843 | 0.366 | 0.163 | 0.398 | 3 | 2.624 | 3 | |
| 228171 | 122347 | 5560 | 4 | 1 | 14 01 4156 | -13 12 451 | 10.037 | 0.346 | 0.138 | 0.374 | 3 | 2.668 | 3 | |
| 228183 | 122485 | 5557 | 941 | 1 | 14 02 2536 | -11 42 428 | 9.978 | 0.375 | 0.155 | 0.369 | 3 | 2.628 | 3 | |
| 228190 | -09 3836 | 5557 | 710 | 1 | 14 02 3192 | -10 27 435 | 9.550 | 0.293 | 0.158 | 0.466 | 3 | 2.676 | 3 | W |
| 228222 | -12 3949 | 5560 | 1030 | 1 | 14 03 3989 | -13 05 474 | 10.587 | 0.367 | 0.149 | 0.362 | 3 | 2.637 | 3 | |
| 228224 | 122701 | 5560 | 188 | 1 | 14 03 4264 | -13 17 197 | 9.373 | 0.372 | 0.148 | 0.288 | 3 | 2.605 | 3 | |
| 228235 | 122800 | 5557 | 128 | 1 | 14 04 1210 | -12 07 474 | 7.921 | 0.266 | 0.146 | 0.622 | 4 | 2.725 | 4 | |
| 228269 | 123036 | 5557 | 340 | 1 | 14 05 3276 | -11 29 131 | 9.595 | 0.294 | 0.148 | 0.462 | 3 | 2.689 | 3 | |
| 228277 | 123066 | 5560 | 260 | 1 | 14 05 5174 | -14 14 336 | 9.351 | 0.312 | 0.158 | 0.426 | 3 | 2.684 | 3 | |
| 228325 | 123381 | 6137 | 36 | 1 | 14 07 4122 | -15 46 544 | 10.390 | 0.431 | 0.187 | 0.291 | 3 | 2.616 | 3 | |
| 228328 | 123411 | 5558 | 1536 | 1 | 14 07 5019 | -12 03 099 | 10.608 | 0.289 | 0.140 | 0.441 | 3 | 2.652 | 3 | |
| 228332 | 123453 | 5561 | 1076 | 1 | 14 08 0393 | -12 55 420 | 7.623 | 0.382 | 0.174 | 0.333 | 3 | 2.625 | 3 | |
| 228336 | 123455 | 5561 | 1066 | 1 | 14 08 1053 | -14 20 427 | 9.402 | 0.389 | 0.135 | 0.455 | 3 | 2.663 | 3 | |
| 228339 | -12 3968 | 5561 | 1196 | 1 | 14 08 1622 | -12 47 158 | 10.746 | 0.402 | 0.167 | 0.412 | 3 | 2.606 | 3 | |
| 228345 | 123524 | 5558 | 1082 | 1 | 14 08 3017 | -12 26 059 | 10.270 | 0.393 | 0.157 | 0.374 | 3 | 2.622 | 3 | |
| 228351 | -11 3674 | 5558 | 1051 | 1 | 14 08 4507 | -12 22 141 | 10.803 | 0.310 | 0.155 | 0.407 | 3 | 2.641 | 3 | |
| 228372 | 123677 | 5558 | 1048 | 1 | 14 09 2329 | -12 23 446 | 9.892 | 0.273 | 0.124 | 0.603 | 3 | 2.729 | 3 | W |
| 228378 | 123729 | 5558 | 1253 | 2 | 14 09 4060 | -11 04 197 | 9.643 | 0.271 | 0.147 | 0.516 | 3 | 2.718 | 3 | |
| 228388 | 123829 | 5561 | 228 | 1 | 14 10 0982 | -13 20 456 | 9.093 | 0.400 | 0.159 | 0.283 | 3 | 2.608 | 3 | |
| 228390 | 123849 | 5561 | 653 | 1 | 14 10 1984 | -14 13 166 | 7.585 | 0.572 | 0.199 | 0.324 | 3 | 2.579 | 3 | |
| 228392 | -12 3984 | 5561 | 61 | 1 | 14 10 2637 | -13 09 436 | 10.694 | 0.475 | 0.212 | 0.288 | 3 | 2.592 | 3 | |
| 228396 | 123900 | 5558 | 919 | 1 | 14 10 3435 | -11 23 299 | 8.878 | 0.283 | 0.126 | 0.498 | 4 | 2.714 | 3 | |
| 228400 | 123932 | 5561 | 496 | 1 | 14 10 4912 | -14 48 043 | 10.178 | 0.305 | 0.157 | 0.460 | 3 | 2.680 | 3 | |
| 228425 | -12 3995 | 5561 | 113 | 1 | 14 11 4543 | -12 55 513 | 10.332 | 0.391 | 0.161 | 0.426 | 3 | 2.617 | 3 | |
| 228428 | 124119 | 5558 | 161 | 1 | 14 11 4876 | -10 58 356 | 10.371 | 0.319 | 0.139 | 0.402 | 3 | 2.687 | 3 | |
| 228432 | -11 3685 | 5561 | 144 | 1 | 14 11 5988 | -12 31 266 | 10.177 | 0.375 | 0.135 | 0.348 | 3 | 2.664 | 3 | |
| 228438 | 124161 | 6138 | 45 | 1 | 14 12 0840 | -15 20 049 | 9.963 | 0.332 | 0.160 | 0.398 | 3 | 2.652 | 3 | |
| 228444 | -10 3843 | 5558 | 955 | 1 | 14 12 2279 | -11 24 551 | 10.710 | 0.339 | 0.131 | 0.439 | 3 | 2.633 | 3 | |