

BBSAG

BULLETIN

101

1992 August 15

134. List of Minima of Eclipsing Binaries

The following table lists 18 photoelectric (underlined), 27 CCD-measured and 280 visual heliocentric minima of eclipsing binaries obtained primarily from March 1992 to September 1992 by the following observers:

| | |
|-----|---|
| FAc | Francesco Acerbi, Codogno, Italy |
| EBl | Ernst Blättler, Wald, Switzerland |
| GB | Guy Boistel, Sautron, France |
| RD | Roger Diethelm, R. Szafraniec Observatory, Metzerlen, Switzerland |
| KL | Kurt Locher, Grüt, Switzerland |
| APs | Anton Paschke, Rüti, Switzerland |
| HP | Hermann Peter, Otelfingen, Switzerland |

The O-C values generally refer to the linear elements of the GCVS 1985, with the remarked exceptions. For the reduction of the visual minima, the tracing paper method was employed, while most of the photoelectric observations were reduced with the Kwee-van Woerden algorithm.

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| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|-----------|------|-------------------|---------------|----------------|----|-----|---------------------|
| 29837 | 2334+483 | AD And | s | 48827.444 | 0.005 | +0.017 | 8 | HP | |
| 29838 | 0139+445 | EP And | s | 48819.576 | 0.006 | +0.027 | 6 | KL | |
| 29839 | 2324+452 | LO And | s | 48820.456 | 0.005 | +0.032 | 7 | HP | elem. GEOS No. 11 |
| 29840 | 1844+107 | KO Aql | p | <u>48755.5128</u> | <u>0.0008</u> | <u>+0.0365</u> | 42 | EBl | pe |
| 29841 | 1900+157 | KP Aql | s | 48803.393 | 0.005 | -0.011 | 10 | HP | |
| 29842 | | | s | <u>48803.394</u> | <u>0.003</u> | <u>-0.010</u> | 26 | EBl | pe, B |
| 29843 | 1945+091 | OO Aql | s | <u>48801.4406</u> | <u>0.0004</u> | <u>-0.0038</u> | 32 | EBl | pe, B |
| 29844 | 1931+004 | V416 Aql | p | 48766.540 | 0.010 | -0.041 | 6 | KL | |
| 29845 | 1847+106 | V479 Aql | p | 48802.485 | 0.005 | -0.034 | 6 | KL | |
| 29846 | 1908+120 | V917 Aql | p | 48801.530 | 0.012 | +0.084 | 13 | KL | |
| 29847 | 1922+159 | V1353 Aql | p | 48827.417 | 0.004 | +0.030 | 10 | HP | |
| 29848 | 0542+411 | ZZ Aur | p | 48699.385 | 0.004 | +0.004 | 7 | HP | |
| 29849 | 0602+483 | KO Aur | p | 48686.351 | 0.005 | +0.004 | 8 | HP | |
| 29850 | 1402+302 | TU Boo | s | 48760.383 | 0.005 | -0.043 | 7 | HP | |
| 29851 | | | s | 48761.354 | 0.002 | -0.045 | 6 | KL | |
| 29852 | | | s | 48795.407 | 0.005 | -0.041 | 9 | HP | |
| 29853 | | | s | 48819.402 | 0.005 | -0.044 | 7 | HP | |
| 29854 | 1458+353 | TY Boo | p | 48720.404 | 0.005 | +0.047 | 11 | HP | |
| 29855 | | | p | 48733.416 | 0.005 | +0.056 | 7 | HP | |
| 29856 | | | p | 48753.399 | 0.005 | +0.059 | 10 | HP | |
| 29857 | | | p | 48760.380 | 0.006 | +0.062 | 7 | HP | |
| 29858 | | | p | 48766.397 | 0.006 | +0.054 | 7 | HP | |
| 29859 | | | p | 48817.456 | 0.007 | +0.052 | 11 | HP | |
| 29860 | 1419+473 | UW Boo | p | 48733.388 | 0.005 | +0.002 | 13 | HP | |
| 29861 | 1533+436 | YY Boo | p | 48803.402 | 0.005 | -0.009 | 8 | HP | |
| 29862 | 1137+805 | AL Cam | p | 48763.367 | 0.004 | -0.021 | 6 | HP | |
| 29863 | 0759+153 | UU Cnc | p | <u>48707.09</u> | <u>0.03</u> | <u>-5.03</u> | 14 | RD | pe, BV |
| 29864 | 0906+306 | WW Cnc | p | 48688.371 | 0.005 | -0.325 | 8 | HP | |
| 29865 | 0858+268 | WY Cnc | p | 48692.322 | 0.005 | -0.011 | 10 | HP | |
| 29866 | | | p | <u>48721.3516</u> | <u>0.0007</u> | <u>-0.0091</u> | 18 | RD | pe, B |
| 29867 | 0720+068 | RY CMi | p | 48698.355 | 0.020 | -0.801 | 15 | APs | CCD, normal minimum |
| 29868 | 0731+052 | SX CMi | p | 48672.41 | 0.01 | -1.41 | 40 | APs | CCD |
| 29869 | 0734+056 | TT CMi | p | 48662.435: | 0.02 | -0.043: | 15 | APs | CCD |
| 29870 | 0734+079 | TU CMi | p | 48681.352 | 0.007 | +0.081 | 19 | APs | CCD |
| 29871 | 0737+048 | TX CMi | s | 48571.517 | 0.007 | +0.070 | 8 | APs | CCD |
| 29872 | | | p | 48651.501 | 0.005 | +0.114 | 13 | APs | CCD |
| 29873 | | | s | 48655.595 | 0.005 | +0.124 | 15 | APs | CCD |
| 29874 | | | s | 48677.385 | 0.005 | +0.130 | 12 | APs | CCD |
| 29875 | 0738+029 | TY CMi | p | 48676.386: | 0.01 | +0.639: | 20 | APs | CCD |
| 29876 | | | p | 48689.377 | 0.005 | +0.639 | 16 | APs | CCD |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|-----------------|------|-----------|-------|--------|----|-----|-----------------------------|
| 29877 | 0751+037 | XZ CMi | p | 48686.296 | 0.005 | +0.013 | 7 | HP | |
| 29878 | | | p | 48712.324 | 0.005 | -0.006 | 7 | HP | |
| 29879 | 0727+107 | AC CMi | s | 48699.365 | 0.004 | +0.008 | 18 | APs | CCD |
| 29880 | | | s | 48712.370 | 0.003 | +0.005 | 18 | APs | CCD |
| 29881 | 0737+040 | AK CMi | p | 48689.335 | 0.004 | -0.009 | 7 | HP | |
| 29882 | 0722-000 | AP CMi | p | 48673.399 | 0.007 | -0.443 | 29 | APs | CCD |
| 29883 | 0800+018 | BH CMi | p | 48639.605 | 0.01 | +0.098 | 45 | APs | CCD |
| 29884 | 0244+694 | RZ Cas | p | 48747.462 | | +0.014 | 15 | GB | |
| 29885 | 0123+698 | AE Cas | p | 48820.527 | 0.010 | +0.074 | 10 | KL | |
| 29886 | 2302+592 | CR Cas | p | 48819.550 | 0.012 | -0.044 | 6 | KL | |
| 29887 | 0042+628 | CW Cas | p | 48802.425 | 0.005 | +0.055 | 8 | HP | |
| 29888 | 2350+572 | EP Cas | p | 48801.464 | 0.004 | -0.034 | 8 | HP | |
| 29889 | | | p | 48823.432 | 0.004 | -0.029 | 6 | HP | |
| 29890 | 0049+501 | V364 Cas | p | 48830.417 | 0.004 | -0.005 | 7 | HP | |
| 29891 | 0037+499 | V523 Cas | s | 48803.466 | 0.004 | +0.016 | 7 | HP | |
| 29892 | | | p | 48803.581 | 0.003 | +0.015 | 7 | KL | |
| 29893 | | | p | 48820.413 | 0.005 | +0.021 | 8 | HP | |
| 29894 | 2038+754 | VW Cep | p | 48506.584 | 0.010 | -0.051 | 10 | FAC | |
| 29895 | 2244+674 | WY Cep | p | 48801.458 | 0.005 | +0.024 | 9 | HP | |
| 29896 | 2243+678 | ZZ Cep | p | 48817.420 | 0.005 | -0.006 | 13 | HP | |
| 29897 | 2239+583 | BE Cep | p | 48789.510 | 0.012 | -0.078 | 6 | KL | |
| 29898 | 2017+766 | EG Cep | p | 48747.525 | | +0.005 | 19 | GB | |
| 29899 | | | p | 48819.431 | 0.005 | +0.020 | 9 | HP | |
| 29900 | 2127+649 | GI Cep | p | 48801.468 | 0.005 | -0.009 | 9 | HP | |
| 29901 | 2109+575 | IO Cep | p | 48763.439 | 0.005 | +0.023 | 6 | KL | |
| 29902 | 0220+809 | V358 Cep | p | 48749.402 | 0.004 | +0.013 | 7 | KL | elem. BBSAG Bull. 96, p. 10 |
| 29903 | 1230+269 | RW Com | s | 48720.319 | 0.006 | +0.006 | 6 | HP | |
| 29904 | | | s | 48737.387 | 0.004 | -0.014 | 5 | HP | |
| 29905 | | | s | 48760.414 | 0.005 | -0.010 | 7 | HP | |
| 29906 | | | s | 48788.416 | 0.005 | -0.016 | 6 | HP | |
| 29907 | | | s | 48802.421 | 0.005 | -0.014 | 7 | HP | |
| 29908 | 1232+236 | RZ Com | p | 48686.395 | 0.004 | +0.016 | 8 | HP | |
| 29909 | | | p | 48733.440 | 0.007 | +0.008 | 8 | HP | |
| 29910 | | | p | 48753.427 | 0.004 | +0.024 | 9 | HP | |
| 29911 | | | p | 48795.396 | 0.004 | +0.018 | 9 | HP | |
| 29912 | 1247+189 | SS Com | s | 48689.403 | 0.006 | | 7 | HP | |
| 29913 | | | p | 48720.356 | 0.005 | | 11 | HP | |
| 29914 | 1209+228 | CC Com | s | 48688.416 | 0.005 | -0.007 | 7 | HP | |
| 29915 | | | s | 48737.412 | 0.004 | -0.002 | 6 | HP | |
| 29916 | | | s | 48739.402 | 0.005 | +0.002 | 4 | HP | |
| 29917 | | | p | 48761.366 | 0.005 | +0.007 | 7 | HP | |
| 29918 | | | s | 48801.406 | 0.004 | -0.008 | 7 | HP | |
| 29919 | | | s | 48803.393 | 0.005 | -0.007 | 6 | HP | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|-----------|------|-------------------|---------------|----------------|----|-----|---------------------|
| 29920 | 1516+318 | U CrB | p | <u>48753.393</u> | <u>0.002</u> | <u>+0.063</u> | 30 | EBl | pe |
| 29921 | 1604+274 | TW CrB | p | 48758.376 | 0.005 | +0.007 | 7 | HP | |
| 29922 | | | p | 48768.394 | 0.005 | +0.014 | 6 | HP | |
| 29923 | | | p | 48788.414 | 0.005 | +0.013 | 9 | HP | |
| 29924 | 1205-128 | W Crv | p | 48737.403 | 0.004 | +0.008 | 6 | HP | |
| 29925 | | | p | 48763.396 | 0.002 | -0.001 | 6 | KL | |
| 29926 | | | p | 48763.397 | 0.005 | +0.001 | 6 | HP | |
| 29927 | 1227-177 | RR Crv | p | 48756.53 | 0.01 | +0.73 | 30 | APs | CCD, normal minimum |
| 29928 | 2005+461 | SW Cyg | p | 48823.444 | 0.004 | -0.110 | 10 | HP | |
| 29929 | 2002+414 | WW Cyg | p | 48788.438 | 0.005 | +0.008 | 9 | HP | |
| 29930 | | | p | 48788.440 | 0.003 | +0.009 | 6 | KL | |
| 29931 | 2051+386 | WZ Cyg | p | 48721.627 | 0.010 | +0.018 | 5 | KL | |
| 29932 | | | p | 48768.399 | 0.005 | +0.032 | 6 | HP | |
| 29933 | | | p | 48789.445 | 0.004 | +0.038 | 11 | HP | |
| 29934 | | | p | 48803.468 | 0.004 | +0.034 | 6 | HP | |
| 29935 | | | p | 48820.420 | 0.005 | +0.036 | 9 | HP | |
| 29936 | 2022+467 | ZZ Cyg | p | 48723.630 | 0.003 | -0.022 | 5 | KL | |
| 29937 | | | p | 48803.472 | 0.004 | -0.015 | 7 | HP | |
| 29938 | | | p | 48820.446 | 0.004 | -0.013 | 9 | HP | |
| 29939 | 2111+305 | AE Cyg | p | 48827.397 | 0.006 | +0.005 | 8 | HP | |
| 29940 | 1939+466 | BR Cyg | p | 48820.594 | 0.002 | -0.002 | 10 | KL | |
| 29941 | 2056+349 | CG Cyg | p | 48789.388 | 0.005 | +0.027 | 8 | HP | |
| 29942 | | | p | 48823.487 | 0.005 | +0.045 | 8 | HP | |
| 29943 | | | p | 48830.423 | 0.004 | +0.038 | 7 | HP | |
| 29944 | 2156+523 | DO Cyg | p | 48803.434 | 0.005 | -0.006 | 9 | HP | |
| 29945 | | | p | 48827.386 | 0.004 | +0.006 | 8 | HP | |
| 29946 | 1924+292 | DX Cyg | p | 48724.604 | 0.005 | -0.078 | 9 | KL | |
| 29947 | 2007+304 | KR Cyg | p | 48820.440 | 0.006 | +0.019 | 9 | HP | |
| 29948 | 2113+372 | V387 Cyg | p | 48807.408 | 0.006 | +0.002 | 7 | HP | |
| 29949 | 2027+389 | V456 Cyg | p | 48768.458 | 0.004 | +0.026 | 10 | HP | |
| 29950 | | | s | 48789.397 | 0.006 | +0.021 | 6 | KL | |
| 29951 | | | p | 48801.436 | 0.004 | +0.029 | 7 | HP | |
| 29952 | 2151+535 | V680 Cyg | p | 48830.370 | 0.005 | +0.023 | 7 | HP | |
| 29953 | 1924+298 | V687 Cyg | p | 48819.427 | 0.004 | +0.005 | 9 | HP | |
| 29954 | 2011+404 | V726 Cyg | p | 48801.508 | 0.003 | +0.027 | 6 | KL | |
| 29955 | 2025+586 | V728 Cyg | p | 48780.409 | 0.005 | -0.029 | 6 | KL | |
| 29956 | | | p | 48780.418 | 0.005 | -0.020 | 9 | HP | |
| 29957 | 2040+531 | V749 Cyg | p | 48724.584 | 0.005 | +0.004 | 6 | KL | |
| 29958 | 1952+362 | V822 Cyg | p | 48801.510 | 0.011 | -0.084 | 9 | KL | |
| 29959 | 2119+355 | V836 Cyg | s | <u>48760.566</u> | <u>0.003</u> | <u>-0.002</u> | 16 | EBl | pe |
| 29960 | 2122+334 | V1073 Cyg | p | <u>48823.4853</u> | <u>0.0011</u> | <u>-0.0460</u> | 28 | EBl | pe, B |
| 29961 | 1924+523 | V1918 Cyg | p | 48749.462 | | -0.017 | 16 | GB | elem. IBVS No. 3090 |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|-----------|----------|------|-------------------|---------------|----------------|----|-----|----------------------------|
| 29962 | 2101+130 | TY Del | p | 48817.461 | 0.005 | +0.054 | 9 | HP | |
| 29963 | 1142+725 | Z Dra | p | 48712.301 | 0.005 | -0.066 | 7 | HP | |
| 29964 | | | p | 48819.533 | 0.006 | -0.073 | 8 | KL | |
| 29965 | 1841+626 | RR Dra | p | 48795.529 | 0.003 | +0.035 | 6 | KL | |
| 29966 | 1822+588 | RZ Dra | p | 48761.395 | 0.004 | +0.019 | 7 | HP | |
| 29967 | | | p | 48783.430 | 0.004 | +0.019 | 11 | HP | |
| 29968 | | | p | 48788.397 | 0.004 | +0.028 | 7 | HP | |
| 29969 | 1533+640 | TW Dra | p | 48770.422 | 0.004 | +0.023 | 10 | HP | |
| 29970 | 1820+475 | TZ Dra | p | 48817.414 | 0.004 | +0.002 | 9 | HP | |
| 29971 | | | p | 48830.397 | 0.004 | -0.006 | 8 | HP | |
| 29972 | 1926+688 | UZ Dra | p | 48823.436 | 0.004 | +0.016 | 8 | HP | |
| 29973 | 1655+5278 | AI Dra | p | 48747.451 | | +0.019 | 11 | GB | |
| 29974 | 1214+651 | AR Dra | p | 48780.458 | 0.004 | -0.004 | 6 | KL | |
| 29975 | 1731+572 | CV Dra | p | 48508.540 | 0.005 | -0.015 | 9 | FAc | elem. IBVS No. 3213 |
| 29976 | 1922+698 | DW Dra | p | 48780.456 | 0.006 | +0.006 | 6 | KL | elem. BBSAG Bull. 84, p. 6 |
| 29977 | 0558+231 | RW Gem | p | 48688.388 | 0.004 | +0.001 | 12 | HP | |
| 29978 | 0733+170 | TX Gem | p | 48733.347 | 0.004 | -0.009 | 9 | HP | |
| 29979 | | | p | 48733.358 | 0.005 | +0.001 | 8 | KL | |
| 29980 | 0628+197 | AY Gem | p | 48699.332 | 0.006 | -0.018 | 8 | HP | |
| 29981 | 0644+169 | FG Gem | p | 48691.348 | 0.003 | -0.016 | 12 | APs | CCD |
| 29982 | 0749+272 | GW Gem | p | 48708.328 | 0.005 | +0.012 | 5 | HP | |
| 29983 | | | p | 48733.387 | 0.004 | +0.012 | 7 | HP | |
| 29984 | 1737+329 | SZ Her | p | 48758.405 | 0.005 | -0.014 | 8 | HP | |
| 29985 | | | p | 48789.494 | 0.003 | -0.013 | 7 | KL | |
| 29986 | | | p | 48803.400 | 0.004 | -0.015 | 6 | HP | |
| 29987 | | | p | 48830.402 | 0.005 | -0.009 | 7 | HP | |
| 29988 | 1717+419 | TX Her | p | 48756.398 | 0.005 | +0.023 | 9 | HP | |
| 29989 | | | s | <u>48757.4161</u> | <u>0.0015</u> | <u>+0.0113</u> | 16 | RD | pe, B |
| 29990 | 1615+090 | CC Her | p | 48761.513 | 0.003 | +0.044 | 6 | KL | |
| 29991 | | | p | 48768.450 | 0.005 | +0.045 | 10 | HP | |
| 29992 | | | p | 48801.392 | 0.005 | +0.042 | 7 | HP | |
| 29993 | | | p | 48820.468 | 0.004 | +0.043 | 10 | HP | |
| 29994 | | | p | 48827.405 | 0.003 | +0.045 | 9 | HP | |
| 29995 | 1618+183 | CT Her | p | 48823.474 | 0.005 | -0.002 | 11 | HP | |
| 29996 | 1732+151 | DP Her | p | 48780.478 | 0.004 | +0.047 | 6 | KL | |
| 29997 | 1848+235 | GL Her | p | 48823.409 | 0.007 | +0.019 | 8 | HP | |
| 29998 | | | p | 48830.449 | 0.005 | +0.024 | 10 | HP | |
| 29999 | 1819+144 | MT Her | p | 48761.411 | 0.010 | -0.007 | 6 | KL | |
| 30000 | 1751+437 | V338 Her | p | 48817.458 | 0.004 | +0.002 | 8 | HP | |
| 30001 | 1822+250 | V342 Her | p | 48819.460 | 0.004 | +0.009 | 8 | HP | |
| 30002 | 1654+377 | V359 Her | p | 48763.391 | 0.004 | +0.083 | 8 | HP | |
| 30003 | | | p | 48770.398 | 0.005 | +0.067 | 7 | HP | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|-----------|------------------|------|-------------------|---------------|----------------|-----|-----|--|
| 30004 | 1716+418 | V728 Her | p | 48761.448 | 0.007 | -0.009 | 7 | HP | elem. IBVS No. 3234 |
| 30005 | | | p | 48820.401 | 0.006 | +0.033 | 10 | HP | |
| 30006 | 0903-080 | RX Hya | p | 48686.383 | 0.005 | +0.026 | 10 | HP | |
| 30007 | 0811+006 | WY Hya | s | 48689.421 | 0.007 | +0.006 | 8 | HP | |
| 30008 | | | s | 48712.337 | 0.005 | +0.010 | 8 | HP | |
| 30009 | 0932+055 | AV Hya | p | 48688.330 | 0.005 | -0.010 | 7 | HP | |
| 30010 | 2213+484 | AU Lac | p | 48803.531 | 0.003 | -0.008 | 6 | KL | |
| 30011 | 22266+535 | DG Lac | p | 48721.582 | 0.009 | -0.078 | 4 | KL | |
| 30012 | 0933+264 | Y Leo | p | 48756.383 | 0.004 | -0.003 | 9 | HP | |
| 30013 | 0945+132 | UU Leo | p | 48733.458 | 0.004 | +0.037 | 19 | APs | CCD |
| 30014 | 1035+145 | UV Leo | p | 48763.397 | 0.004 | +0.013 | 9 | HP | |
| 30015 | 0956+140 | XX Leo | s | <u>48733.391</u> | <u>0.003</u> | | 12 | RD | pe, B; see note on page 8 CCD, normal minimum |
| 30016 | | | s | 48734.355 | 0.010 | | 39 | APs | |
| 30017 | 0958+176 | XY Leo | p | 48689.396 | 0.004 | +0.056 | 9 | HP | |
| 30018 | | | p | 48720.372 | 0.006 | +0.065 | 12 | HP | |
| 30019 | | | p | 48760.423 | 0.005 | +0.059 | 7 | HP | |
| 30020 | | | p | 48766.374 | 0.006 | +0.044 | 8 | HP | |
| 30021 | 0959+172 | XZ Leo | p | 48763.372 | 0.006 | +0.012 | 8 | HP | |
| 30022 | 0950+162 | AG Leo | p | 48682.49 | 0.02 | -0.03 | 104 | APs | CCD |
| 30023 | 1059+101 | AM Leo | s | <u>48733.3404</u> | <u>0.0005</u> | <u>-0.0035</u> | 20 | EBl | pe |
| 30024 | 0945+335 | T LMi | p | 48737.346 | 0.006 | -0.014 | 8 | HP | |
| 30025 | 1458-083 | Delta Lib | p | <u>48788.4165</u> | <u>0.0003</u> | <u>+0.0219</u> | 36 | EBl | pe, B |
| 30026 | 0809+574 | SX Lyn | p | 48766.400 | 0.004 | +0.010 | 8 | HP | |
| 30027 | 0912+429 | UU Lyn | p | 48739.342 | 0.005 | -0.003 | 9 | HP | |
| 30028 | | | p | 48760.425 | 0.007 | -0.001 | 7 | HP | |
| 30029 | | | p | 48768.396 | 0.007 | +0.006 | 5 | HP | |
| 30030 | 1814+410 | TZ Lyr | p | 48737.401 | 0.005 | +0.011 | 6 | HP | |
| 30031 | | | p | 48783.400 | 0.004 | +0.002 | 6 | HP | |
| 30032 | | | p | 48802.434 | 0.004 | -0.001 | 8 | HP | |
| 30033 | | | p | 48820.420 | 0.004 | +0.004 | 9 | HP | |
| 30034 | 1919+378 | UZ Lyr | p | 48722.618 | 0.003 | 0.000 | 10 | KL | |
| 30035 | | | p | 48830.418 | 0.005 | -0.004 | 7 | HP | |
| 30036 | 1913+269 | AK Lyr | p | 48802.451 | 0.008 | -0.682 | 6 | KL | |
| 30037 | 1831+377 | EW Lyr | p | 48789.442 | 0.005 | +0.252 | 10 | HP | |
| 30038 | | | p | 48789.442 | 0.004 | +0.253 | 6 | KL | |
| 30039 | 1910.462 | FL Lyr | p | 48807.381 | 0.006 | -0.002 | 7 | HP | |
| 30040 | 0658-086 | BB Mon | p | 48712.351 | 0.004 | +0.001 | 9 | HP | |
| 30041 | 0757-033 | BO Mon | p | 48712.341 | 0.005 | -0.044 | 8 | HP | |
| 30042 | 0643-002 | DD Mon | p | 48689.344 | 0.005 | +0.089 | 8 | HP | |
| 30043 | 1713+012 | U Oph | p | <u>48762.396</u> | <u>0.004</u> | <u>+0.006</u> | 20 | EBl | pe |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|----------|------|-------------------|---------------|----------------|----|-----|---------|
| 30044 | 1816+142 | V501 Oph | p | 48820.410 | 0.005 | -0.004 | 10 | HP | |
| 30045 | 1638+006 | V502 Oph | s | <u>48762.3964</u> | <u>0.0015</u> | <u>-0.0518</u> | 20 | EBl | pe |
| 30046 | 1738+078 | V506 Oph | p | 48827.467 | 0.004 | +0.029 | 6 | HP | |
| 30047 | 1756+135 | V508 Oph | p | 48768.390 | 0.005 | +0.019 | 6 | HP | |
| 30048 | | | p | 48780.438 | 0.004 | +0.001 | 9 | HP | |
| 30049 | | | p | 48783.550 | 0.003 | +0.009 | 6 | KL | |
| 30050 | | | p | 48788.380 | 0.004 | +0.011 | 6 | HP | |
| 30051 | 1754+049 | V566 Oph | s | <u>48768.5348</u> | <u>0.0005</u> | <u>+0.0342</u> | 22 | EBl | pe |
| 30052 | 1820+040 | V916 Oph | p | 48796.416 | 0.004 | +0.063 | 4 | KL | |
| 30053 | 0548+094 | FR Ori | p | 48686.339 | 0.005 | +0.099 | 10 | HP | |
| 30054 | 0610+214 | FT Ori | p | 48692.312 | 0.004 | +0.011 | 10 | HP | |
| 30055 | 0538+025 | FZ Ori | s | 48689.290 | 0.005 | -0.011 | 8 | HP | |
| 30056 | 0608+185 | V392 Ori | p | 48688.364 | 0.008 | 0.000 | 8 | HP | |
| 30057 | 2226+177 | UX Peg | p | 48820.459 | 0.016 | -0.013 | 6 | KL | |
| 30058 | 2125+047 | BN Peg | p | 48803.580 | 0.003 | -0.001 | 8 | KL | |
| 30059 | 0256+389 | ST Per | p | 48689.306 | 0.005 | +0.046 | 11 | HP | |
| 30060 | 0405+464 | XZ Per | p | 48686.362 | 0.007 | -0.014 | 7 | HP | |
| 30061 | 0256+437 | IU Per | p | 48699.317 | 0.005 | +0.020 | 7 | HP | |
| 30062 | 0433+441 | KR Per | p | 48712.326 | 0.004 | -0.010 | 7 | HP | |
| 30063 | 1922+163 | CU Sge | p | 48801.435 | 0.004 | +0.023 | 8 | HP | |
| 30064 | | | p | 48820.434 | 0.004 | +0.022 | 8 | HP | |
| 30065 | 1957+190 | CW Sge | | 48802.440 | 0.005 | | 7 | HP | |
| 30066 | | | | 48803.457 | 0.005 | | 11 | HP | |
| 30067 | 1756-173 | WX Sgr | p | 48780.531 | 0.003 | -0.052 | 6 | KL | |
| 30068 | 1819-252 | XZ Sgr | p | 48795.539 | 0.005 | +0.049 | 7 | KL | |
| 30069 | 1836-227 | DV Sgr | p | 48795.531 | 0.005 | -0.162 | 6 | KL | |
| 30070 | 1950-147 | V505 Sgr | p | <u>48820.4759</u> | <u>0.0010</u> | <u>+0.0035</u> | 22 | EBl | pe, B |
| 30071 | 1556+173 | AO Ser | p | 48723.614 | 0.004 | +0.017 | 7 | KL | |
| 30072 | | | p | 48761.429 | 0.005 | +0.020 | 7 | HP | |
| 30073 | | | p | 48761.430 | 0.008 | +0.021 | 6 | KL | |
| 30074 | | | p | 48768.458 | 0.004 | +0.014 | 7 | HP | |
| 30075 | | | p | 48783.409 | 0.005 | +0.016 | 9 | HP | |
| 30076 | | | p | 48819.462 | 0.005 | +0.016 | 9 | HP | |
| 30077 | 1536+024 | AS Ser | p | 48761.410 | 0.006 | +0.008 | 7 | HP | |
| 30078 | | | p | 48768.425 | 0.006 | +0.034 | 9 | HP | |
| 30079 | | | p | 48795.447 | 0.005 | +0.031 | 9 | HP | |
| 30080 | | | p | 48802.442 | 0.006 | +0.038 | 6 | HP | |
| 30081 | | | p | 48823.409 | 0.005 | +0.038 | 8 | HP | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|-----------------|------|-----------|-------|--------|----|-----|---------------------|
| 30082 | 1554+224 | AU Ser | p | 48739.361 | 0.006 | -0.017 | 7 | HP | |
| 30083 | | | p | 48761.381 | 0.005 | -0.027 | 7 | HP | |
| 30084 | | | p | 48761.387 | 0.003 | -0.022 | 6 | KL | |
| 30085 | | | p | 48766.410 | 0.005 | -0.023 | 6 | HP | |
| 30086 | | | p | 48783.411 | 0.005 | -0.028 | 8 | HP | |
| 30087 | | | p | 48795.396 | 0.004 | -0.024 | 9 | HP | |
| 30088 | | | p | 48817.422 | 0.004 | -0.029 | 7 | HP | |
| 30089 | | | s | 48830.368 | 0.004 | -0.031 | 8 | HP | |
| 30090 | 1553+176 | BI Ser | p | 48768.402 | 0.007 | -0.485 | 6 | HP | |
| 30091 | | | p | 48780.452 | 0.005 | -0.485 | 10 | HP | |
| 30092 | | | p | 48827.438 | 0.006 | -0.488 | 6 | HP | |
| 30093 | 1534+156 | CC Ser | s | 48783.410 | 0.007 | +0.014 | 8 | HP | |
| 30094 | 1823-017 | EG Ser | p | 48749.522 | 0.007 | +0.074 | 24 | APs | CCD |
| 30095 | 1535+190 | LX Ser | p | 48766.527 | 0.002 | +0.004 | 5 | KL | |
| 30096 | 0400+279 | RW Tau | p | 48688.327 | 0.004 | -0.064 | 9 | HP | |
| 30097 | 0548+281 | SV Tau | p | 48686.311 | 0.007 | -0.007 | 9 | HP | |
| 30098 | | | p | 48699.313 | 0.004 | -0.007 | 6 | HP | |
| 30099 | 0353+293 | AN Tau | p | 48700.309 | 0.006 | +0.156 | 7 | HP | |
| 30100 | 0553+252 | EN Tau | p | 48686.338 | 0.004 | -0.001 | 8 | HP | |
| 30101 | 0427+254 | GW Tau | p | 48688.354 | 0.005 | +0.006 | 6 | HP | |
| 30102 | 0549+162 | V726 Tau | p | 48699.320 | 0.006 | +0.035 | 9 | HP | |
| 30103 | 1206+563 | TY UMa | p | 48733.388 | 0.005 | +0.050 | 11 | HP | elem. IBVS No. 1949 |
| 30104 | | | s | 48753.411 | 0.004 | +0.041 | 10 | HP | |
| 30105 | | | p | 48761.386 | 0.005 | +0.039 | 7 | HP | |
| 30106 | | | s | 48770.431 | 0.005 | +0.043 | 7 | HP | |
| 30107 | | | p | 48789.408 | 0.005 | +0.052 | 9 | HP | |
| 30108 | | | p | 48795.428 | 0.006 | +0.045 | 12 | HP | |
| 30109 | 1334+521 | UX UMa | p | 48765.411 | 0.002 | -0.002 | 6 | KL | |
| 30110 | 0934+562 | VV UMa | p | 48737.381 | 0.005 | -0.008 | 7 | HP | |
| 30111 | | | p | 48770.367 | 0.004 | -0.016 | 8 | HP | |
| 30112 | | | p | 48783.423 | 0.005 | -0.021 | 7 | HP | |
| 30113 | 0906+546 | XY UMa | p | 48720.343 | 0.004 | +0.026 | 10 | HP | |
| 30114 | | | p | 48753.377 | 0.004 | +0.010 | 10 | HP | |
| 30115 | 0928+496 | XZ UMa | p | 48686.393 | 0.005 | -0.012 | 8 | HP | |
| 30116 | | | p | 48763.391 | 0.004 | -0.020 | 9 | HP | |
| 30117 | 1026+620 | ZZ UMa | p | 48689.393 | 0.005 | +0.008 | 8 | HP | |
| 30118 | | | p | 48712.385 | 0.005 | +0.008 | 8 | HP | |
| 30119 | 0943+459 | AA UMa | s | 48688.333 | 0.004 | +0.003 | 7 | HP | |
| 30120 | | | p | 48720.383 | 0.006 | -0.014 | 11 | HP | |
| 30121 | | | s | 48739.353 | 0.006 | -0.003 | 9 | HP | |
| 30122 | | | s | 48753.392 | 0.004 | -0.008 | 12 | HP | |
| 30123 | | | s | 48760.422 | 0.005 | +0.001 | 7 | HP | |
| 30124 | 1042+525 | BH UMa | p | 48689.375 | 0.008 | -0.097 | 11 | HP | |
| 30125 | | | p | 48733.379 | 0.006 | -0.109 | 9 | HP | |
| 30126 | | | p | 48763.421 | 0.006 | -0.111 | 8 | HP | |
| 30127 | | | p | 48770.403 | 0.006 | -0.116 | 10 | HP | |
| 30128 | 1402-099 | VV Vir | p | 48762.373 | 0.009 | -0.011 | 6 | KL | |

| Nr | Design. | Star | Type | O | e. | O-C | n | Obs | Remarks |
|-------|----------|--------|------|-------------------|---------------|----------------|----|-----|---------------------------|
| 30129 | 1158+132 | AG Vir | s | <u>48733.3964</u> | <u>0.0019</u> | <u>+0.0062</u> | 20 | RD | pe, B |
| 30130 | 1325+033 | AW Vir | s | 48739.450 | 0.004 | +0.014 | 16 | APs | CCD |
| 30131 | | | p | 48753.435 | 0.006 | +0.016 | 9 | HP | |
| 30132 | | | s | 48762.452 | 0.004 | +0.006 | 35 | APs | CCD |
| 30133 | | | p | 48770.413 | 0.004 | +0.002 | 12 | HP | |
| 30134 | 1325+041 | AX Vir | p | 48733.359 | 0.005 | +0.016 | 6 | HP | |
| 30135 | | | p | 48761.437 | 0.004 | -0.007 | 8 | HP | |
| 30136 | | | p | 48761.438 | 0.007 | -0.006 | 30 | APs | CCD, normal minimum |
| 30137 | | | p | 48780.417 | 0.004 | +0.004 | 16 | APs | CCD |
| 30138 | 1340+048 | AZ Vir | p | 48653.652 | 0.003 | -0.009 | 30 | APs | CCD |
| 30139 | | | p | 48733.375 | 0.004 | -0.009 | 9 | HP | |
| 30140 | | | s | 48780.412 | 0.005 | -0.002 | 11 | HP | |
| 30141 | | | s | 48795.436 | 0.006 | -0.014 | 7 | HP | |
| 30142 | 1345-003 | BF Vir | p | 48737.401 | 0.005 | +0.025 | 7 | HP | |
| 30143 | | | p | 48753.411 | 0.004 | +0.020 | 10 | HP | |
| 30144 | 1355-014 | BH Vir | s | 48760.416 | 0.005 | -0.005 | 8 | HP | |
| 30145 | | | p | 48786.427 | 0.006 | -0.008 | 8 | HP | |
| 30146 | | | p | 48789.421 | 0.005 | +0.001 | 10 | HP | |
| 30147 | 1502+045 | CG Vir | p | 48679.616 | 0.006 | -0.213 | 19 | APs | CCD |
| 30148 | 1406-153 | CX Vir | p | 48766.467 | 0.004 | -0.006 | 36 | APs | CCD, elem. MNRAS 231. 397 |
| 30149 | 1919+254 | Z Vul | p | <u>48780.3951</u> | <u>0.0005</u> | <u>-0.0058</u> | 32 | EBl | pe, B |
| 30150 | | | p | 48807.407 | 0.005 | +0.002 | 10 | HP | |
| 30151 | 2026+246 | AW Vul | p | 48802.399 | 0.004 | -0.001 | 7 | HP | |
| 30152 | | | p | 48827.403 | 0.004 | +0.004 | 8 | HP | |
| 30153 | 2033+224 | AY Vul | p | 48827.472 | 0.005 | +0.005 | 9 | HP | |
| 30154 | 1954+237 | BO Vul | p | 48783.549 | 0.003 | +0.029 | 10 | KL | |
| 30155 | | | p | 48789.386 | 0.006 | +0.029 | 6 | HP | |
| 30156 | 2023+208 | BP Vul | p | 48723.609 | 0.004 | -0.008 | 6 | KL | |
| 30157 | 1935+218 | BS Vul | p | 48780.481 | 0.005 | +0.009 | 9 | HP | |
| 30158 | | | p | 48801.421 | 0.005 | +0.007 | 8 | HP | |
| 30159 | 2044+280 | BU Vul | p | 48801.480 | 0.004 | +0.008 | 7 | HP | |
| 30160 | | | p | 48817.416 | 0.004 | +0.012 | 9 | HP | |
| 30161 | 2023+263 | CD Vul | p | 48830.419 | 0.005 | +0.007 | 7 | HP | |

XX Leonis

The table above includes two minima of XX Leonis, a star on which the GCVS (edition 1985) contains the remark "Period should be checked.". Extensive coverage of the light curve of XX Leonis as well as a number of photoelectric measurements in B show that the period given in the GCVS is essentially correct but needs better precision. Furthermore we can state with security that the two minima given here are both secondaries. We expect to continue our work during the next observing season, after which we will present a complete light curve as well as refined elements.

A. Paschke, R. Diethelm

