This article was processed by the author using Springer-Verlag
LaTeX A&A style file *L-AA* version 3.

Table 7. Orbital elements for the S stars with no (strong) light variations. The symbol > is used for uncertainties exceeding the parameter values in case of badly constrained orbits. N is the number of measurements used to derive the orbital solution and $O-C$ the residue around this solution. ΔT is the span of the observations

Id HD/DM	P [days]	T [HJD -2400000]	e	γ [$\mathrm{km\,s^{-1}}$]	ω [deg]	K [$\mathrm{km\,s^{-1}}$]	$f(m)$	$a\sin i$ [Gm]	N	$O-C$ [$\mathrm{km\,s^{-1}}$]	ΔT [days]
30959	$P>1900$								12		1895
49368	2995.903	45145.37	0.357	49.85	184.37	4.43	2.201e-02	170.39	23	0.577	3635
	67.152	65.01	0.048	0.13	7.27	0.20	3.083e-03	8.73			
63733	1160.701	45990.92	0.231	1.91	168.22	6.08	2.492e-02	94.38	14	0.379	2685
	8.922	42.60	0.034	0.12	8.91	0.21	2.628e-03	3.39			
95875	197.236	48843.35	0.023	40.61	25.86	14.21	5.878e-02	38.54	10	0.699	1826
	0.365	91.98	>	1.06	>	2.12	9.405e-03	2.06			
170970	4391.997	48213.21	0.084	-35.77	237.10	3.62	2.133e-02	217.58	39	0.332	3463
	201.991	277.15	0.043	0.06	24.40	0.09	1.856e-03	11.35			
184185	$P>3400$								22		3403
191589	377.342	48844.02	0.253	-9.74	128.63	22.30	3.937e-01	111.96	41	0.292	1895
	0.138	0.99	0.003	0.08	1.15	0.09	5.052e-03	0.48			
218634	$P>3700$								28		3780
246818	2548.543	47115.84	0.182	-45.52	344.20	2.40	3.473e-03	82.66	17	0.595	3718
	73.188	234.81	0.111	0.19	35.59	0.34	1.494e-03	12.06			
288833	$P>3900$								18		3721
343486	3165.723	46880.50	0.241	4.86	65.93	5.05	3.862e-02	213.21	37	0.823	3398
	37.626	89.02	0.035	0.15	10.78	0.20	4.804e-03	9.16			
$+21^\circ$ 255	4137.166	43578.31	0.209	-38.48	316.59	4.29	3.178e-02	238.82	36	0.511	4068
	316.831	260.49	0.043	0.27	11.95	0.16	4.321e-03	20.36			
$+23^\circ$3992	3095.574	45365.62	0.105	-26.72	286.42	4.75	3.380e-02	200.90	43	0.706	4135
	41.740	177.00	0.034	0.12	19.87	0.19	4.011e-03	8.35			
$+28^\circ$4592	1252.941	48161.32	0.091	-37.47	13.80	5.01	1.617e-02	85.97	34	0.316	3611
	3.538	33.83	0.017	0.06	9.92	0.08	8.147e-04	1.46			
$+31^\circ$4391	$P>3600$								28		3607
$+79^\circ$ 156	$P>3900$								19		3936