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PHOTOELECTRIC MINIMA OF FOUR RS CVn TYPE BINARY SYSTEMS: RT And, SV Cam, WY Cnc, AND Z Her

We present 23 moments of minima observations of four RS CVn type binary systems made with 30 cm Maksutov telescope (for RT And, WY Cnc and Z Her) and with the 30 cm Cassegrain telescope (for SV Cam) of the Ankara University Observatory. Both telescopes are equipped with an SSP-5A photometer containing a side-on R1414 Hamamatsu photomultiplier, but R4457 Hamamatsu photomultiplier for the Cassegrain telescope. Individual measurements for RT And and WY Cnc and Z Her were obtained in B and V filters, for SV Cam were obtained in B and V and R filters. The reduction of the photoelectric data was made by standard procedures for differential extinction and light-time effect. The comparison stars used in observations of the four systems are listed in Table 1. All minimum times were computed using the method of Kwee and van Woerden (1956). The results are listed in Table 2 with their mean errors.

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Table 1. The comparison stars used

Variable	Comparison		
RT And	BD +52°3382		
SV Cam	BD +82°0176		
WY Cnc	BD +27°1708		
Z Her	BD +14°3378		

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Reference:

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Table 2. Brightness minima of RT And, SV Cam, WY Cnc and Z Her

Star	Min	Min. HJD	Mean	Filter
	Туре	+2400000	err.	
RT And	I	49981.4916	0.0007	В
	I	49981.4913	0.0055	V
	II	50004.4447	0.0018	В
	II	50004.4471	0.0018	V
SV Cam	I	50259.4743	0.0014	В
	I	50259.4833	0.0009	V
	I	50259.4841	0.0011	\mathbf{R}
	I	50268.3777	0.0007	В
	I	50268.3781	0.0018	V
	I	50268.3816	0.0003	R
	II	50257.4228	0.0001	В
	II	50257.4163	0.0050	V
	II	50257.4068	0.0035	\mathbf{R}
	II	50273.4243	0.0034	В
	II	50273.4337	0.0038	V
	II	50273.4310	0.0047	R
WY Cnc	I	50184.3595	0.0010	В
	I	50184.3586	0.0013	V
Z Her	I	50247.3567	0.0040	В
	Ι	50247.3554	0.0012	V