

Observation	V Star	Date	UT Time	Magnitude	Telescope
501	V0750 Cep	8/24/2019	23:46:03	11.317	IT07
502	NSV 15914 - R	8/26/2019	16:08:55	12.183	R-COP
503	NSV 15918 - R	8/26/2019	16:08:55	11.766	R-COP
504	NSV 15919 - R	8/26/2019	16:08:55	12.278	R-COP
505	VW Hyi - R	8/26/2019	16:08:55	9.436	R-COP
506	NSV 15914 - V	8/26/2019	16:07:49	13.194	R-COP
507	NSV 15918 - V	8/26/2019	16:07:49	12.29	R-COP
508	NSV 15919 - V	8/26/2019	16:07:49	12.661	R-COP
509	VW Hyi - V	8/26/2019	16:07:49	9.494	R-COP
510	NSV 15453 - I	8/26/2019	15:04:36	13.062	R-COP
511	WX Hyi - I	8/26/2019	15:04:36	12.401	R-COP
512	NSV 15453 - R	8/26/2019	15:03:06	13.172	R-COP
513	WX Hyi - R	8/26/2019	15:03:06	12.424	R-COP
514	NSV 15453 - V	8/26/2019	15:01:36	13.643	R-COP
515	WX Hyi - V	8/26/2019	15:01:36	12.567	R-COP
516	WX Hyi - B	8/26/2019	15:00:50	12.974	R-COP
517	R For - V	8/25/2019	16:31:49	9.217	R-COP
518	NSV 15453 - V	8/25/2019	16:25:55	13.499	R-COP
519	NSV 1023 - V	8/25/2019	16:48:25	12.01	R-COP
520	T Hor - V	8/25/2019	16:48:25	8.647	R-COP
521	NSV 15914 - V	8/25/2019	16:50:03	13.18	R-COP
522	NSV 15918 - V	8/25/2019	16:50:03	12.381	R-COP
523	NSV 15919 - V	8/25/2019	16:50:03	12.493	R-COP
524	VW Hyi - V	8/25/2019	16:50:03	10.444	R-COP
525	T Eri - V	8/25/2019	17:24:22	8.714	R-COP
526	W Eri - V	8/25/2019	17:48:51	8.66	R-COP
527	NSV 15948 - V	8/25/2019	18:00:02	9.528	R-COP
528	RS Eri - V	8/25/2019	18:00:02	12.728	R-COP
529	NSV 15453 - V	8/26/2019	14:59:56	13.911	R-COP
530	WX Hyi - V	8/26/2019	14:59:56	12.501	R-COP
531	NSV 15914 - V	8/26/2019	16:07:49	13.185	R-COP
532	NSV 15918 - V	8/26/2019	16:07:49	12.269	R-COP
533	NSV 15919 - V	8/26/2019	16:07:49	12.665	R-COP
534	VW Hyi - V	8/26/2019	16:07:49	9.48	R-COP
535	AT Ara - B	8/31/2019	15:02:19	12.504	R-COP
536	NSV 22282 - B	8/31/2019	15:02:19	13.465	R-COP
537	AT Ara - V	8/31/2019	15:04:36	12.402	R-COP
538	NSV 22282 - V	8/31/2019	15:04:36	12.573	R-COP
539	BE Ara - V	8/31/2019	15:13:23	16.015	R-COP
540	BF Ara - V	8/31/2019	15:13:23	15.736	R-COP
541	KO Cra - v	8/31/2019	15:17:37	14.059	R-COP
542	KO Cra - B	8/31/2019	15:18:51	14.316	R-COP
543	GX CrA - B	8/31/2019	15:22:55	14.543	R-COP
544	WX CrA - B	8/31/2019	15:22:55	11.972	R-COP
545	GI CrA - V	8/31/2019	15:23:55	13.117	R-COP

546	GP CrA - V	8/31/2019	15:23:55	14.834	R-COP
547	GU CrA - V	8/31/2019	15:23:55	14.04	R-COP
548	GV CrA - V	8/31/2019	15:23:55	14.186	R-COP
549	GX CrA - V	8/31/2019	15:23:55	13.163	R-COP
550	WX CrA - V	8/31/2019	15:23:55	10.585	R-COP
551	GV CrA - B	8/31/2019	15:25:19	15.335	R-COP
552	GX CrA - B	8/31/2019	15:25:19	14.892	R-COP
553	GY CrA - B	8/31/2019	15:25:19	14.227	R-COP
554	WX CrA - B	8/31/2019	15:25:19	11.944	R-COP
555	GU CrA - V	8/31/2019	15:26:20	13.962	R-COP
556	GV CrA - V	8/31/2019	15:26:20	14.065	R-COP
557	GX CrA - V	8/31/2019	15:26:20	13.103	R-COP
558	GY CrA - v	8/31/2019	15:26:20	12.458	R-COP
559	WX CrA - V	8/31/2019	15:26:20	10.59	R-COP
560	SY CrA - V	8/31/2019	15:29:11	14.406	R-COP
561	AA Ind - V	8/31/2019	19:15:32	15.305	R-COP
562	NSV 14151	8/31/2019	19:17:11	12.887	R-COP
563	NSV 14156	8/31/2019	19:17:11	12.052	R-COP
564	T Gru	8/31/2019	19:17:11	10.838	R-COP
565	NSV 14157	8/31/2019	19:18:29	10.001	R-COP
566	S Gru	8/31/2019	19:18:29	9.212	R-COP
567	SU Men	8/31/2019	19:33:06	14.527	R-COP
568	V0730 CrA - B	9/1/2019	13:54:40	10.343	R-COP
569	V0730 CrA - V	9/1/2019	13:55:14	9.852	R-COP
570	BN CrA - B	9/1/2019	13:56:24	14.205	R-COP
571	BN CrA - V	9/1/2019	13:57:10	11.44	R-COP
572	NSV 9803	9/1/2019	13:58:08	15.163	R-COP
573	VY Pav	9/1/2019	13:58:08	11.755	R-COP
574	RR Tel	9/1/2019	14:04:11	15.144	R-COP
575	LO CrA - B	9/6/2019	12:16:56	13.906	R-COP
576	MM CrA - B	9/6/2019	12:16:56	14.543	R-COP
577	NSV 24126 - B	9/6/2019	12:16:56	9.68	R-COP
578	LO CrA - V	9/6/2019	12:17:58	12.834	R-COP
579	MM CrA - V	9/6/2019	12:17:58	15.403	R-COP
580	NSV 24126 - V	9/6/2019	12:17:58	8.501	R-COP
581	NO CrA - V	9/6/2019	12:17:58	13.433	R-COP
582	NO CrA - B	9/6/2019	12:19:22	14.68	R-COP
583	NP CrA - B	9/6/2019	12:19:22	14.463	R-COP
584	NSV 24126 - B	9/6/2019	12:19:22	9.529	R-COP
585	MM CrA - V	9/6/2019	12:20:22	15.325	R-COP
586	MV CrA - V	9/6/2019	12:20:22	15.485	R-COP
587	NO CrA - V	9/6/2019	12:20:22	13.036	R-COP
588	NP CrA - V	9/6/2019	12:20:22	14.967	R-COP
589	NSV 24126 - V	9/6/2019	12:20:22	8.232	R-COP
590	NT CrA - V	9/6/2019	12:20:22	15.422	R-COP
591	AA Ind - V	9/6/2019	18:51:00	14.511	R-COP
592	NSV 14151	9/6/2019	18:52:40	12.771	R-COP

593	NSV 14156	9/6/2019	18:52:40	11.495	R-COP
594	T Gru	9/6/2019	18:52:40	10.256	R-COP
595	S Gru	9/6/2019	18:53:56	9.44	R-COP
596	BP Hyi	9/6/2019	18:59:59	15.287	R-COP
597	NSV 15453	9/6/2019	19:08:57	13.364	R-COP
598	WX Hyi	9/6/2019	19:08:57	14.333	R-COP
599	R For - V	9/6/2019	19:18:50	9.578	R-COP
600	T Eri - V	9/6/2019	19:21:41	7.854	R-COP
601	GI CrA	9/6/2019	11:48:38	13.376	R-COP
602	GP CrA	9/6/2019	11:48:38	13.875	R-COP
603	GX CrA	9/6/2019	11:48:38	13.616	R-COP
604	WX CrA	9/6/2019	11:48:38	11.218	R-COP
605	GX CrA	9/6/2019	11:51:04	13.537	R-COP
606	GY CrA	9/6/2019	11:51:04	12.818	R-COP
607	WX CrA	9/6/2019	11:51:04	11.227	R-COP
608	NSV 22282 - B	9/7/2019	12:03:57	13.175	R-COP
609	NSV 22373 - B	9/7/2019	12:03:57	7.74	R-COP
610	AT Ara - V	9/7/2019	12:05:13	13.789	R-COP
611	NSV 22282 - V	9/7/2019	12:05:13	12.346	R-COP
612	NSV 22373 - V	9/7/2019	12:05:13	7.113	R-COP
613	V0730 CrA - V	9/7/2019	12:16:32	9.687	R-COP
614	RR Tel	9/7/2019	12:30:19	11.431	R-COP
615	NSV 16648 - V	9/21/2019	10:20:11	15.311	R-COP
616	QR Ori - V	9/21/2019	10:20:11	14.191	R-COP
617	V0519 Ori - V	9/21/2019	10:20:11	12.954	R-COP
618	V0625 Ori - V	9/21/2019	10:20:11	13.189	R-COP
619	V0626 Ori - V	9/21/2019	10:20:11	15.707	R-COP
620	V0627 Ori - V	9/21/2019	10:20:11	14.093	R-COP
621	V0628 Ori - V	9/21/2019	10:20:11	15.087	R-COP
622	V0629 Ori - V	9/21/2019	10:20:11	14.384	R-COP
623	V0630 Ori - V	9/21/2019	10:20:11	13.904	R-COP
624	V1022 Ori - V	9/21/2019	10:20:11	13.146	R-COP
625	QR Ori - B	9/21/2019	19:19:25	15.09	R-COP
626	V0519 Ori - B	9/21/2019	19:19:25	13.244	R-COP
627	V0625 Ori - B	9/21/2019	19:19:25	14.379	R-COP
628	V0627 Ori - B	9/21/2019	19:19:25	15.037	R-COP
629	V0629 Ori - B	9/21/2019	19:19:25	15.15	R-COP
630	V0630 Ori - B	9/21/2019	19:19:25	14.932	R-COP
631	V1022 Ori - B	9/21/2019	19:19:25	14.146	R-COP
632	HI Ori - V	9/21/2019	19:16:03	13.241	R-COP
633	HK Ori - V	9/21/2019	19:16:03	11.496	R-COP
634	HM Ori - V	9/21/2019	19:16:03	13.144	R-COP
635	V0450 Ori - V	9/21/2019	19:16:03	15.04	R-COP
636	V0454 Ori - V	9/21/2019	19:16:03	14.488	R-COP
637	V0458 Ori - V	9/21/2019	19:16:03	14.273	R-COP
638	HI Ori - B	9/21/2019	19:15:29	14.617	R-COP
639	HK Ori - B	9/21/2019	19:15:29	12.109	R-COP

640	HM Ori - B	9/21/2019	19:15:29	14.113	R-COP
641	HI Ori - V	9/21/2019	19:08:40	13.305	R-COP
642	HK Ori - V	9/21/2019	19:08:40	11.566	R-COP
643	V0448 Ori - V	9/21/2019	19:08:40	14.587	R-COP
644	V0450 Ori - V	9/21/2019	19:08:40	15.606	R-COP
645	HI Ori - B	9/21/2019	19:08:05	14.355	R-COP
646	HK Ori - B	9/21/2019	19:08:05	11.962	R-COP
647	HI Ori - V	9/21/2019	19:04:46	13.317	R-COP
648	HK Ori - V	9/21/2019	19:04:46	11.606	R-COP
649	V0448 Ori - V	9/21/2019	19:04:46	14.881	R-COP
650	V0450 Ori - V	9/21/2019	19:04:46	15.562	R-COP
651	HI Ori - B	9/21/2019	19:04:00	14.358	R-COP
652	HK Ori - B	9/21/2019	19:04:00	11.956	R-COP
653	V0436 Ori - V	9/21/2019	19:00:36	14.11	R-COP
654	V0437 Ori - V	9/21/2019	19:00:36	14.849	R-COP
655	V0436 Ori - V	9/21/2019	18:56:26	13.997	R-COP
656	V0437 Ori - V	9/21/2019	18:56:26	14.964	R-COP
657	V1804 Ori - V	9/21/2019	18:14:27	7.588	R-COP
658	V1804 Ori - B	9/21/2019	18:13:27	7.539	R-COP
659	S Col - V	9/21/2019	17:16:14	11.385	R-COP
660	S Col - B	9/21/2019	17:15:39	13.101	R-COP
661	TV Col - V	9/21/2019	17:02:05	14.23	R-COP
662	TV Col - B	9/21/2019	17:01:31	14.511	R-COP
663	V1804 Ori - V	9/21/2019	18:17:05	7.82	R-COP
664	V1804 Ori - B	9/21/2019	18:15:49	7.545	R-COP
665	S Dor - B	9/21/2019	16:50:48	9.294	R-COP
666	S Dor - V	9/21/2019	16:51:23	8.99	R-COP
667	T Col - V	9/21/2019	16:48:32	7.494	R-COP
668	R Ret - V	9/21/2019	16:26:43	7.893	R-COP
669	R Ret - B	9/21/2019	16:26:07	9.33	R-COP
670	SU Men	9/21/2019	16:35:45	12.803	R-COP
671	NSV 15914 - V	9/21/2019	16:31:36	12.37	R-COP
672	NSV 15918 - V	9/21/2019	16:31:36	11.952	R-COP
673	NSV 15919 - V	9/21/2019	16:31:36	12.901	R-COP
674	VW Hyi - V	9/21/2019	16:31:36	14.184	R-COP
675	NSV 15914 - B	9/21/2019	16:30:50	13.869	R-COP
676	NSV 15918 - B	9/21/2019	16:30:50	13.095	R-COP
677	NSV 15919 - B	9/21/2019	16:30:50	13.6	R-COP
678	VW Hyi - B	9/21/2019	16:30:50	14.464	R-COP
679	W Eri - V	9/21/2019	16:22:31	8.679	R-COP
680	W Eri - B	9/21/2019	16:22:06	10.329	R-COP
681	NSV 15948 - V	9/21/2019	16:19:49	9.648	R-COP
682	RS Eri - V	9/21/2019	16:19:49	12.804	R-COP
683	T Eri - V	9/21/2019	16:14:33	8.204	R-COP
684	T Eri - B	9/21/2019	16:14:09	9.54	R-COP
685	NSV 1023 - V	9/21/2019	16:11:45	11.989	R-COP
686	T Hor - V	9/21/2019	16:11:45	9.136	R-COP

687	R For - V	9/21/2019	16:08:20	10.285	R-COP
688	R Hor - V	9/21/2019	16:00:28	10.973	R-COP
689	NSV 15453 - V	9/21/2019	15:56:07	13.724	R-COP
690	WX Hyi - V	9/21/2019	15:56:07	13.274	R-COP
691	NSV 15453 - B	9/21/2019	15:55:22	14.407	R-COP
692	WX Hyi - B	9/21/2019	15:55:22	13.389	R-COP
693	BP Hyi - V	9/21/2019	15:47:15	16.461	R-COP
694	NSV 14157	9/21/2019	15:41:13	16.191	R-COP
695	S Gru	9/21/2019	15:41:13	10.304	R-COP
696	NSV 14151	9/21/2019	15:39:58	12.95	R-COP
697	NSV 14156	9/21/2019	15:39:58	11.695	R-COP
698	T Gru	9/21/2019	15:39:58	10.137	R-COP
699	AA Ind	9/21/2019	15:38:18	15.208	R-COP
700	RR Tel	9/21/2019	15:35:23	14.785	R-COP
701	V0650 CrA - V	9/21/2019	15:29:19	10.545	R-COP
702	V0651 CrA - V	9/21/2019	15:29:19	12.594	R-COP
703	V0650 CrA - B	9/21/2019	15:28:19	15.179	R-COP
704	V0651 CrA - B	9/21/2019	15:28:19	14.001	R-COP
705	V0730 CrA - V	9/21/2019	15:27:04	10.049	R-COP
706	V0730 CrA - B	9/21/2019	15:26:28	10.44	R-COP
707	BN CrA - V	9/21/2019	15:25:22	13.576	R-COP
708	BN CrA - B	9/21/2019	15:24:36	13.006	R-COP
709	GI CrA - V	9/21/2019	15:23:13	13.576	R-COP
710	GO CrA - V	9/21/2019	15:23:13	14.632	R-COP
711	GP CrA - V	9/21/2019	15:23:13	14.73	R-COP
712	GU CrA - V	9/21/2019	15:23:13	14.394	R-COP
713	GV CrA - V	9/21/2019	15:23:13	13.856	R-COP
714	GX CrA - V	9/21/2019	15:23:13	12.936	R-COP
715	GY CrA - V	9/21/2019	15:23:13	12.206	R-COP
716	WX CrA - V	9/21/2019	15:23:13	10.534	R-COP
717	SY CrA - V	9/21/2019	15:17:48	15.273	R-COP
718	LO CrA - V	9/21/2019	15:08:44	12.441	R-COP
719	LT CrA - V	9/21/2019	15:08:44	16.655	R-COP
720	MM CrA - V	9/21/2019	15:08:44	14.922	R-COP
721	MV CrA - V	9/21/2019	15:08:44	14.602	R-COP
722	NO CrA - V	9/21/2019	15:08:44	13.662	R-COP
723	NP CrA - V	9/21/2019	15:08:44	15.734	R-COP
724	NSV 24126 - V	9/21/2019	15:08:44	8.116	R-COP
725	LO CrA - B	9/21/2019	15:07:44	14.123	R-COP
726	MM CrA - B	9/21/2019	15:07:44	14.879	R-COP
727	MV CrA - B	9/21/2019	15:07:44	14.988	R-COP
728	NO CrA - B	9/21/2019	15:07:44	14.142	R-COP
729	NP CrA - B	9/21/2019	15:07:44	15.994	R-COP
730	NSV 24126 - B	9/21/2019	15:07:44	9.528	R-COP
731	BF Ara - V	9/21/2019	14:58:13	17.308	R-COP
732	AT Ara - V	9/21/2019	14:49:30	15.253	R-COP
733	NSV 22282 - V	9/21/2019	14:49:30	12.622	R-COP

734	NSV 22373 - V	9/21/2019	14:49:30	7.566	R-COP
735	AT Ara - B	9/21/2019	14:48:17	15.78	R-COP
736	NSV 22282 - B	9/21/2019	14:48:17	13.692	R-COP
737	NSV 22373 - B	9/21/2019	14:48:17	7.121	R-COP
738	MM CrA - B	9/21/2019	15:21:58	15.264	R-COP
739	MV CrA - B	9/21/2019	15:21:58	15.193	R-COP
740	NO CrA - B	9/21/2019	15:21:58	15.401	R-COP
741	NP CrA - B	9/21/2019	15:21:58	16.616	R-COP
742	NSV 24126 - B	9/21/2019	15:21:58	9.68	R-COP
743	GU CrA - V	10/1/2019	14:16:23	14.622	R-COP
744	GV CrA - V	10/1/2019	14:16:23	13.566	R-COP
745	GX CrA - V	10/1/2019	14:16:23	12.797	R-COP
746	GY CrA - V	10/1/2019	14:16:23	12.414	R-COP
747	GZ CrA - V	10/1/2019	14:16:23	14.689	R-COP
748	WX CrA - V	10/1/2019	14:16:23	10.872	R-COP
749	MM CrA - V	10/1/2019	14:17:25	15.406	R-COP
750	MV CrA - V	10/1/2019	14:17:25	16.368	R-COP
751	NO CrA - V	10/1/2019	14:17:25	13.693	R-COP
752	NP CrA - V	10/1/2019	14:17:25	15.626	R-COP
753	NSV 24126 - V	10/1/2019	14:17:25	8.387	R-COP
754	AA Ind	10/2/2019	11:51:55	14.71	R-COP
755	VY Pav	10/2/2019	11:54:13	12.334	R-COP
756	OV Pav	10/2/2019	11:54:13	15.624	R-COP
757	NSV 9803	10/2/2019	11:54:13	16.141	R-COP
758	SY CrA - V	10/2/2019	11:57:01	15.674	R-COP
759	SY CrA - B	10/2/2019	11:58:17	16.967	R-COP
760	V0394 CrA - V	10/2/2019	12:00:42	16.033	R-COP
761	LT CrA - B	10/2/2019	12:06:53	16.185	R-COP
762	MM CrA - B	10/2/2019	12:06:53	16.08	R-COP
763	MV CrA - B	10/2/2019	12:06:53	16.552	R-COP
764	NO CrA - B	10/2/2019	12:06:53	15.354	R-COP
765	NP CrA - B	10/2/2019	12:06:53	16.267	R-COP
766	NSV 24126 - B	10/2/2019	12:06:53	9.687	R-COP
767	LT CrA - V	10/2/2019	12:07:51	15.858	R-COP
768	MM CrA - V	10/2/2019	12:07:51	16.022	R-COP
769	MV CrA - V	10/2/2019	12:07:51	15.81	R-COP
770	NO CrA - V	10/2/2019	12:07:51	13.635	R-COP
771	NP CrA - V	10/2/2019	12:07:51	15.547	R-COP
772	NSV 24126 - V	10/2/2019	12:07:51	9.063	R-COP
773	GO CrA - V	10/2/2019	12:11:38	15.311	R-COP
774	GP CrA - V	10/2/2019	12:11:38	14.988	R-COP
775	GU CrA - V	10/2/2019	12:11:38	14.556	R-COP
776	GV CrA - V	10/2/2019	12:11:38	13.667	R-COP
777	GX CrA - V	10/2/2019	12:11:38	12.863	R-COP
778	GY CrA - V	10/2/2019	12:11:38	12.334	R-COP
779	WX CrA - V	10/2/2019	12:11:38	10.572	R-COP
780	BN CrA - B	10/2/2019	12:55:38	13.22	R-COP

781	BN CrA - V	10/2/2019	12:56:27	12.073	R-COP
782	V0730 CrA - B	10/2/2019	12:57:34	10.377	R-COP
783	V0730 CrA - V	10/2/2019	12:58:15	9.977	R-COP
784	V0650 CrA - B	10/2/2019	12:59:30	14.96	R-COP
785	V0651 CrA - B	10/2/2019	12:59:30	13.511	R-COP
786	V0650 CrA - V	10/2/2019	13:00:29	10.459	R-COP
787	V0651 CrA - V	10/2/2019	13:00:29	12.232	R-COP
788	RR Tel	10/2/2019	13:08:18	15.126	R-COP
789	NSV 14157	10/2/2019	13:11:44	9.854	R-COP
790	S Gru	10/2/2019	13:11:44	10.745	R-COP
791	NSV 14151	10/2/2019	13:13:00	12.899	R-COP
792	NSV 14156	10/2/2019	13:13:00	11.529	R-COP
793	T Gru	10/2/2019	13:13:00	9.619	R-COP
794	R For - B	10/2/2019	13:46:18	15.581	R-COP
795	R For - V	10/2/2019	13:46:43	10.594	R-COP
796	NSV 15453 - B	10/2/2019	13:51:39	14.44	R-COP
797	WX Hyi - B	10/2/2019	13:51:39	12.591	R-COP
798	NSV 15453 - V	10/2/2019	13:52:24	13.694	R-COP
799	WX Hyi - V	10/2/2019	13:52:24	12.497	R-COP
800	BP Hyi	10/2/2019	14:00:22	16.279	R-COP
801	R Hor - B	10/2/2019	14:13:08	12.86	R-COP
802	R Hor - V	10/2/2019	14:13:32	10.89	R-COP
803	NSV 1023	10/2/2019	14:16:15	12.01	R-COP
804	T Hor	10/2/2019	14:16:15	9.783	R-COP
805	NSV 15914 - B	10/2/2019	14:24:08	13.673	R-COP
806	NSV 15918 - B	10/2/2019	14:24:08	12.993	R-COP
807	NSV 15919 - B	10/2/2019	14:24:08	13.595	R-COP
808	VW Hyi - B	10/2/2019	14:24:08	14.428	R-COP
809	NSV 15914 - V	10/2/2019	14:24:53	12.274	R-COP
810	NSV 15918 - V	10/2/2019	14:24:53	11.847	R-COP
811	NSV 15919 - V	10/2/2019	14:24:53	12.869	R-COP
812	VW Hyi - V	10/2/2019	14:24:53	14.169	R-COP
813	R Ret - B	10/2/2019	14:29:11	9.826	R-COP
814	R Ret - V	10/2/2019	14:29:47	8.473	R-COP
815	SU Men	10/2/2019	14:33:05	12.804	R-COP
816	TU Men - B	10/2/2019	14:35:50	12.187	R-COP
817	TU Men - V	10/2/2019	14:36:34	12.126	R-COP
818	S Dor - B	10/2/2019	14:56:52	9.247	R-COP
819	S Dor - V	10/2/2019	14:57:26	8.976	R-COP
820	T Eri - B	10/2/2019	14:58:38	9.834	R-COP
821	T Eri - V	10/2/2019	14:59:03	8.421	R-COP
822	W Eri - V	10/2/2019	15:09:50	9.048	R-COP
823	NSV 15948 - B	10/2/2019	15:28:30	10.121	R-COP
824	RS Eri - B	10/2/2019	15:28:30	14.391	R-COP
825	NSV 15948 - V	10/2/2019	15:28:54	9.649	R-COP
826	RS Eri - V	10/2/2019	15:28:54	12.51	R-COP
827	T Col - B	10/2/2019	16:01:00	9.382	R-COP

828	T Col - V	10/2/2019	16:01:34	8.105	R-COP
829	T Lep - B	10/2/2019	16:09:29	13.793	R-COP
830	T Lep - V	10/2/2019	16:10:04	11.491	R-COP
831	TV Col - B	10/2/2019	16:12:40	14.587	R-COP
832	TV Col - V	10/2/2019	16:13:15	14.172	R-COP
833	S Col - B	10/2/2019	16:32:36	12.422	R-COP
834	S Col - V	10/2/2019	16:33:10	10.843	R-COP
835	BI Ori - B	10/2/2019	17:27:23	17.291	R-COP
836	V1804 Ori - B	10/2/2019	17:27:23	7.868	R-COP
837	BI Ori - V	10/2/2019	17:28:38	16.521	R-COP
838	V1804 Ori - V	10/2/2019	17:28:38	8.466	R-COP
839	V0436 Ori - B	10/2/2019	18:07:15	15.292	R-COP
840	V0436 Ori - V	10/2/2019	18:08:01	13.979	R-COP
841	V0436 Ori - V	10/2/2019	18:12:12	13.936	R-COP
842	V0437 Ori - V	10/2/2019	18:12:12	14.878	R-COP
843	HI Ori - B	10/2/2019	18:15:37	14.355	R-COP
844	HK Ori - B	10/2/2019	18:15:37	12.133	R-COP
845	V0448 Ori - B	10/2/2019	18:15:37	15.566	R-COP
846	HI Ori - V	10/2/2019	18:16:23	13.209	R-COP
847	HK Ori - V	10/2/2019	18:16:23	11.667	R-COP
848	V0448 Ori - V	10/2/2019	18:16:23	14.598	R-COP
849	V0450 Ori - V	10/2/2019	18:16:23	15.74	R-COP
850	V0455 Ori - V	10/2/2019	18:16:23	16.828	R-COP
851	HI Ori - B	10/2/2019	18:19:44	14.232	R-COP
852	HK Ori - B	10/2/2019	18:19:44	12.18	R-COP
853	V0448 Ori - B	10/2/2019	18:19:44	15.749	R-COP
854	HI Ori - V	10/2/2019	18:20:20	13.208	R-COP
855	HK Ori - V	10/2/2019	18:20:20	11.651	R-COP
856	V0448 Ori - V	10/2/2019	18:20:20	14.669	R-COP
857	V0450 Ori - V	10/2/2019	18:20:20	15.85	R-COP
858	V0455 Ori - V	10/2/2019	18:20:20	16.409	R-COP
859	HI Ori - B	10/2/2019	18:23:35	14.469	R-COP
860	HK Ori - B	10/2/2019	18:23:35	12.218	R-COP
861	HM Ori - B	10/2/2019	18:23:35	14.276	R-COP
862	V0454 Ori - B	10/2/2019	18:23:35	15.173	R-COP
863	HI Ori - V	10/2/2019	18:24:09	13.153	R-COP
864	HK Ori - V	10/2/2019	18:24:09	11.621	R-COP
865	HM Ori - V	10/2/2019	18:24:09	13.09	R-COP
866	V0454 Ori - V	10/2/2019	18:24:09	14.343	R-COP
867	V0450 Ori - V	10/2/2019	18:24:09	16.214	R-COP
868	NSV 16648 - B	10/2/2019	18:29:22	16.761	R-COP
869	QR Ori - B	10/2/2019	18:29:22	15.664	R-COP
870	V0625 Ori - B	10/2/2019	18:29:22	14.157	R-COP
871	V0626 Ori - B	10/2/2019	18:29:22	16.618	R-COP
872	V0627 Ori - B	10/2/2019	18:29:22	15.027	R-COP
873	V0628 Ori - B	10/2/2019	18:29:22	15.932	R-COP
874	V0629 Ori - B	10/2/2019	18:29:22	15.466	R-COP

875	V0630 Ori - B	10/2/2019	18:29:22	14.95	R-COP
876	V1022 Ori - B	10/2/2019	18:29:22	12.897	R-COP
877	NSV 16648 - V	10/2/2019	18:30:21	15.261	R-COP
878	QR Ori - V	10/2/2019	18:30:21	14.513	R-COP
879	V0625 Ori - V	10/2/2019	18:30:21	12.907	R-COP
880	V0626 Ori - V	10/2/2019	18:30:21	15.355	R-COP
881	V0627 Ori - V	10/2/2019	18:30:21	14.085	R-COP
882	V0628 Ori - V	10/2/2019	18:30:21	15.263	R-COP
883	V0629 Ori - V	10/2/2019	18:30:21	14.357	R-COP
884	V0630 Ori - V	10/2/2019	18:30:21	13.898	R-COP
885	V1022 Ori - V	10/2/2019	18:30:21	12.697	R-COP
886	AT Ara - B	10/5/2019	11:53:09	16.088	R-COP
887	NSV 22282 - B	10/5/2019	11:53:09	13.754	R-COP
888	NSV 22373 - B	10/5/2019	11:53:09	7.979	R-COP
889	HD 158202 - B	10/5/2019	11:53:09	9.759	R-COP
890	AT Ara - V	10/5/2019	11:54:22	15.295	R-COP
891	NSV 22282 - V	10/5/2019	11:54:22	12.602	R-COP
892	NSV 22373 - V	10/5/2019	11:54:22	8.651	R-COP
893	HD 158202 - V	10/5/2019	11:54:22	9.913	R-COP
894	BE Ara - V	10/5/2019	12:03:05	17.889	R-COP
895	BF Ara - V	10/5/2019	12:03:05	18.147	R-COP
896	T Eri	10/18/2019	17:46:05	9.792	R-COP
897	W Eri - V	10/18/2019	17:48:50	10.174	R-COP
898	V0436 Ori - V	10/18/2019	18:03:48	13.878	R-COP
899	V0437 Ori - V	10/18/2019	18:03:48	14.909	R-COP
900	V0436 Ori - V	10/18/2019	18:07:57	13.999	R-COP
901	V0437 Ori - V	10/18/2019	18:07:57	15.029	R-COP
902	HI Ori - B	10/18/2019	18:11:26	14.656	R-COP
903	HK Ori - B	10/18/2019	18:11:26	12.083	R-COP
904	V0448 Ori - B	10/18/2019	18:11:26	15.712	R-COP
905	V0450 Ori - B	10/18/2019	18:11:26	16.03	R-COP
906	HI Ori - V	10/18/2019	18:12:14	13.434	R-COP
907	HK Ori - V	10/18/2019	18:12:14	11.597	R-COP
908	V0448 Ori - V	10/18/2019	18:12:14	14.45	R-COP
909	V0450 Ori - V	10/18/2019	18:12:14	14.788	R-COP
910	V0455 Ori - V	10/18/2019	18:12:14	16.185	R-COP
911	HI Ori - B	10/18/2019	18:15:30	14.674	R-COP
912	HK Ori - B	10/18/2019	18:15:30	12.046	R-COP
913	HI Ori - V	10/18/2019	18:16:06	13.356	R-COP
914	HK Ori - V	10/18/2019	18:16:06	11.621	R-COP
915	V0448 Ori - V	10/18/2019	18:16:06	14.514	R-COP
916	V0450 Ori - V	10/18/2019	18:16:06	14.813	R-COP
917	QR Ori - B	10/18/2019	18:25:06	15.84	R-COP
918	V0625 Ori - B	10/18/2019	18:25:06	14.014	R-COP
919	V0626 Ori - B	10/18/2019	18:25:06	15.759	R-COP
920	V0627 Ori - B	10/18/2019	18:25:06	14.731	R-COP
921	V0629 Ori - B	10/18/2019	18:25:06	15.274	R-COP

922	V0630 Ori - B	10/18/2019	18:25:06	15.179	R-COP
923	V1022 Ori - B	10/18/2019	18:25:06	14.192	R-COP
924	QR Ori - V	10/18/2019	18:26:06	14.555	R-COP
925	V0625 Ori - V	10/18/2019	18:26:06	13.043	R-COP
926	V0626 Ori - V	10/18/2019	18:26:06	15.575	R-COP
927	V0627 Ori - V	10/18/2019	18:26:06	13.974	R-COP
928	V0628 Ori - V	10/18/2019	18:26:06	15.066	R-COP
929	V0629 Ori - V	10/18/2019	18:26:06	14.278	R-COP
930	V0630 Ori - V	10/18/2019	18:26:06	13.852	R-COP
931	V1022 Ori - V	10/18/2019	18:26:06	13.019	R-COP
932	NSV 16648 - V	10/18/2019	18:26:06	15.159	R-COP
933	V1804 Ori	10/18/2019	18:37:31	8.114	R-COP
934	T Lep - B	10/18/2019	18:43:33	13.11	R-COP
935	T Lep - V	10/18/2019	18:44:09	10.929	R-COP
936	T Col - B	10/18/2019	18:46:32	10.123	R-COP
937	T Col - V	10/18/2019	18:47:06	8.662	R-COP
938	TV Col - B	10/18/2019	18:48:08	14.594	R-COP
939	TV Col - V	10/18/2019	18:48:42	14.221	R-COP
940	S Col - B	10/18/2019	18:53:00	11.105	R-COP
941	S Col - V	10/18/2019	18:53:36	9.694	R-COP
942	R Hor - B	10/18/2019	19:26:00	12.473	R-COP
943	R Hor - V	10/18/2019	19:26:23	10.524	R-COP
944	NSV 1023 - B	10/18/2019	19:28:41	12.47	R-COP
945	T Hor - B	10/18/2019	19:28:41	12.272	R-COP
946	NSV 1023 - V	10/18/2019	19:29:07	12.029	R-COP
947	T Hor - V	10/18/2019	19:29:07	10.949	R-COP
948	NSV 15453 - B	10/18/2019	19:34:10	14.595	R-COP
949	WX Hyi - B	10/18/2019	19:34:10	15.356	R-COP
950	NSV 15453 - V	10/18/2019	19:34:56	13.698	R-COP
951	WX Hyi - V	10/18/2019	19:34:56	15.051	R-COP
952	BP Hyi - V	10/18/2019	19:42:49	16.087	R-COP
953	NSV 15918 - B	10/18/2019	19:49:54	12.952	R-COP
954	NSV 15919 - B	10/18/2019	19:49:54	13.589	R-COP
955	VW Hyi - B	10/18/2019	19:49:54	13.302	R-COP
956	NSV 15918 - V	10/18/2019	19:50:40	12.003	R-COP
957	NSV 15919 - V	10/18/2019	19:50:40	12.889	R-COP
958	VW Hyi - V	10/18/2019	19:50:40	12.887	R-COP
959	R Ret - B	10/18/2019	19:55:06	10.683	R-COP
960	V0650 CrA - V	10/19/2019	13:27:32	9.982	R-COP
961	V0651 CrA - V	10/19/2019	13:27:32	12.018	R-COP
962	TU Men - V	10/19/2019	17:06:22	16.866	R-COP
963	R Ret - V	10/19/2019	17:13:25	9.117	R-COP
964	MM CrA - B	10/21/2019	12:12:44	15.966	R-COP
965	MV CrA - B	10/21/2019	12:12:44	16.305	R-COP
966	NO CrA - B	10/21/2019	12:12:44	14.977	R-COP
967	NP CrA - B	10/21/2019	12:12:44	15.049	R-COP
968	NSV 24126 - B	10/21/2019	12:12:44	9.608	R-COP

969	NT CrA - B	10/21/2019	12:12:44	16.74	R-COP
970	OO CrA - B	10/21/2019	12:12:44	15.469	R-COP
971	W CrA - B	10/21/2019	12:12:44	11.844	R-COP
972	MM CrA - V	10/21/2019	12:13:44	15.415	R-COP
973	MV CrA - V	10/21/2019	12:13:44	15.641	R-COP
974	NO CrA - V	10/21/2019	12:13:44	13.265	R-COP
975	NP CrA - V	10/21/2019	12:13:44	14.794	R-COP
976	NSV 24126 - V	10/21/2019	12:13:44	8.722	R-COP
977	NT CrA - V	10/21/2019	12:13:44	16.027	R-COP
978	OO CrA - V	10/21/2019	12:13:44	14.871	R-COP
979	W CrA - V	10/21/2019	12:13:44	9.98	R-COP
980	GU CrA - V	10/21/2019	12:14:48	14.592	R-COP
981	GV CrA - V	10/21/2019	12:14:48	13.291	R-COP
982	GX CrA - V	10/21/2019	12:14:48	12.821	R-COP
983	GY CrA - V	10/21/2019	12:14:48	12.53	R-COP
984	WX CrA - V	10/21/2019	12:14:48	10.567	R-COP
985	R For	10/22/2019	18:56:53	11.011	R-COP
986	SU Men	10/18/2019	20:06:25	12.794	R-COP
987	NSV 14151	10/19/2019	12:02:29	12.921	R-COP
988	NSV 14156	10/19/2019	12:02:29	11.595	R-COP
989	T Gru	10/19/2019	12:02:29	8.724	R-COP
990	NSV 14157	10/19/2019	12:03:48	9.893	R-COP
991	S Gru	10/19/2019	12:03:48	11.326	R-COP
992	AT Ara - B	10/19/2019	12:10:41	15.806	R-COP
993	NSV 22282 - B	10/19/2019	12:10:41	13.778	R-COP
994	AT Ara - V	10/19/2019	12:11:57	15.122	R-COP
995	NSV 22282 - V	10/19/2019	12:11:57	12.595	R-COP
996	NSV 9803	10/19/2019	12:05:39	16.231	R-COP
997	OV Pav	10/19/2019	12:05:39	15.249	R-COP
998	VY Pav	10/19/2019	12:05:39	12.285	R-COP
999	HI Ori - B	10/26/2019	16:41:24	14.685	R-COP
1000	HK Ori - B	10/26/2019	16:41:24	12.059	R-COP
1001	V0450 Ori - B	10/26/2019	16:41:24	15.896	R-COP
1002	HI Ori - V	10/26/2019	16:42:09	13.235	R-COP
1003	HK Ori - V	10/26/2019	16:42:09	11.621	R-COP
1004	V0448 Ori - V	10/26/2019	16:42:09	14.734	R-COP
1005	V0450 Ori - V	10/26/2019	16:42:09	15.737	R-COP
1006	V0455 Ori - V	10/26/2019	16:42:09	16.035	R-COP