

## Occultation prediction for Nederland midden

E. Longitude 5 0 0.0, Latitude 52 0 0.0, Alt. 0m;

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s
Sep 1	1 29	51.8	d	3214	A0	6.8	6.7	98+	165	13	218	53S	88	65	109	+4.0	+6.4	+1.2	-1.2	.386	-24.1	21 56	46.0	-17 53	49 394.4	809.2						
Distance of 3214 to Terminator = 19.7"; to 3km sunlit peak = 8.4"																																
Sep 3	0 18	20	M	3458	K0	6.2	5.5	99-	170	29	180	42N	328	329	352	+2.7	+7.3	+9.9	+9.9	.000	90.0	23 29	0.6	-9 15	58 398.1	727.9						
Distance of 3458 to Terminator = 6.7"; to 3km sunlit peak = 0.1"																																
Sep 3	21 49	4.6	R	18cK1	5.8	5.3s	97-	160	20	129	72S	245	274	269	+2.2	+7.4	+0.9	+1.8	.408	176.3	0 10	18.9	-5 14	55 401.0	794.6							
18 is double: ** 6.8 6.8 0.10" 90.0, dT = +0.22sec																																
18 has been reported as non-instantaneous (OCc1138). Observations are highly desired																																
18 = NSV 15038, 5.82 to 5.85, V																																
Sep 3	22 44	5.6	r	128632	K2	8.3	7.7	97-	160	26	142	73S	245	268	269	+2.0	+7.4	+1.2	+1.5	.389	174.3	0 11	35.7	-5 4 5	400.4	759.0						
Sep 4	22 49	14.5	r	129029	K4	7.9	7.2	93-	149	27	131	71N	275	303	298	+1.0	+7.1	+1.3	+1.4	.326	144.0	0 55	33.2	0 1 11	401.9	784.6						
Sep 5	0 0	33.5	R	126cK0	7.6	7.0	93-	149	35	149	52N	294	312	316	+0.8	+7.0	+2.3	+0.2	.210	123.4	0 57	13.0	0 20	32 401.2	743.6							
126 is double: AB 7.6 11.1 350.0, dT = 0.00sec																																
Sep 5	1 30	11	M	109577	SK5	7.7	6.9S	93-	148	39	176	20N	326	329	348	+0.5	+6.9	+9.9	+9.9	.000	90.0	0 59	23.3	0 46	44 400.9	721.0						
109577 is triple: AB 7.8 9.1 30" 340.0 : AC 7.8 11.1 178" 267.2																																
109577 = NSV 15219, 7.66,																																
Distance of 109577 to Terminator = 19.8"; to 3km sunlit peak = 7.4"																																
Sep 5	1 59	24.9	r	109579	K0	8.6	7.9	92-	148	39	186	71N	275	271	297	+0.4	+6.9	+2.0	-0.4	.291	141.6	0 59	36.6	0 40	15 401.0	721.0						
Sep 5	5 10	14.1	r	150SF1	6.1	5.9v	92-	147	1	24	239	60N	286	254	308	-0.1	+6.7	+1.2	-2.5	.292	134.9	1 3	49.0	1 22	1 402.5	808.0						
R150 = 26 Ceti																																
150 is triple: AB 6.1 9.5 16.0" 253.0, dT = -46sec : AC 6.1 14.1 120" 291.0, dT = -408sec																																
150 = HIP 4979, 6.06, range 0.01, 0V, Type VAR, Period 369.00369 days																																
Sep 6	0 33	28.7	r	110072	F8	8.9	8.7	87-	138	38	145	59S	224	244	244	-0.5	+6.4	+0.9	+1.9	.372	-165.9	1 41	53.3	5 3	21 401.6	747.5						
Sep 6	1 25	29.6	r	110085	G0	8.6	8.4	87-	137	42	161	51S	216	227	236	-0.6	+6.3	+0.9	+1.8	.347	-158.4	43	6.4	5 12	40 401.3	725.8						
Sep 6	1 41	28.5	r	110087	cG0	8.8	8.5	87-	137	43	166	71S	235	244	255	-0.7	+6.3	+1.3	+1.3	.370	-178.2	1 43	11.9	5 19	31 401.3	721.4						
110087 is double: AB 9.2 10.2 0.40" 7.3, dT = +0.7sec																																
110087 is a close double. Observations are highly desired																																

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s
Sep	6	1	53	21	M	110088	K0	7.6	6.8	87-	137	44	170	17N	327	333	347	-0.7	+6.3	+9.9	+9.9	.000	90.0	1	43	38.5	5	44	44	401.2	718.9	
Sep	6	4	5	42	Gr	110121	K2	8.3	7.6	86-	137	-9	39	**	GRAZE: CA 14.8N; Dist. 38km in az. 332deg. [Lat = 52.39+0.33(E.Long-5.00)]																	
Sep	6	4	13	16	r	110121	K2	8.3	7.6	86-	137	-8	39	216	26N	318	297	338	-1.1	+6.1	+4.4	-9.7	.074	101.3	1	46	32.3	6	8	59	401.6	734.0
Sep	6	4	26	6.0	r	110120	K2	8.9	8.4	86-	136	-6	38	220	86N	258	235	278	-1.2	+6.1	+1.4	-0.6	.361	162.0	1	46	30.5	5	57	13	401.7	740.1
Sep	6	23	35	1.9	R	110516	K0	6.9	6.4	80-	127	31	116	68N	276	311	294	-1.5	+5.7	+1.1	+1.5	.343	144.4	2	24	30.5	9	42	48	402.1	821.5	
Sep	7	1	34	22.4	R	362	F5	6.5	6.2	80-	126	45	149	48N	296	315	314	-1.9	+5.5	+2.5	-0.3	.204	122.5	2	27	23.4	10	11	54	400.8	737.2	
R362 = 25 (Arietis)/Ceti																																
Sep	7	23	16	58.1	r	93312	K5	8.6	7.6s	72-	116	25	100	51S	218	256	232	-2.7	+4.7	+0.1	+2.3	.407	-153.6	3	9	55.4	13	41	40	401.3	885.4	
93312 = NSV 15643, 8.5, range 0.1, V																																
Sep	7	23	22	3.4	r	93311	A2	8.4	8.3	72-	116	26	101	69S	236	274	250	-2.8	+4.7	+0.3	+2.1	.448	-171.8	3	9	50.7	13	46	4	401.2	879.9	
Sep	8	0	51	12.0	r	93334	K2	8.8	7.9	72-	116	39	122	64S	230	263	244	-2.9	+4.5	+0.7	+2.1	.401	-168.0	3	12	15.2	14	2	22	399.9	795.3	
Sep	8	2	41	35.3	R	93362	F8	8.0	7.7	71-	115	50	155	33S	200	215	214	-3.3	+4.4	+0.6	+2.8	.277	-137.7	3	15	18.7	14	18	11	398.9	723.7	
Sep	8	5	5	27	Gr	478cG5	7.4	7.0	71-	114	-1	51	**	GRAZE: CA 11.2N; Dist.147km in az. 159deg. [Lat = 50.58+0.23(E.Long-5.00)]																		
Sep	8	5	5	38	m	478cG5	7.4	7.0	71-	114	-1	50	210	11N	336	317	349	-3.7	+4.2	+9.9	+9.9	.000	90.0	3	18	27.1	15	10	38	398.7	708.2	
478 is double: AB 7.5 15.4 0.030" 191.1																																
478 is a close double. Observations are highly desired																																
Sep	8	21	23	22.1	r	577	F4	6.0	5.8S	64-	106	5	68	62N	287	324	297	-3.9	+3.7	-0.2	+1.2	.440	143.4	3	53	10.0	17	19	38	401.31066.3		
577 = NSV 15826, 5.95, , Type VAR:																																
Sep	9	1	9	8	M	593pF4	5.9	5.7v	63-	105	39	112	14N	336	13	346	-4.1	+3.3	+9.9	+9.9	.000	90.0	4	0	48.8	18	11	38	397.4	822.5		
*** A light curve is desired as 593 is in the Kepler2 program {ID = 210688161}																																
593 is double: AB 5.9 11.0 176" 275.9																																
593 = HIP 18735, 5.89, range 0.00, 6V, Type VAR, Period 0.42378 days																																
Sep	10	3	17	57.8	r	76831dK0	9.0	8.2	52-	93	51	132	30S	203	233	208	-5.5	+1.7	+0.4	+3.3	.266	-132.1	4	54	54.0	20	56	52	392.4	755.5		
76831 is double: AB 10.9 12.2 7.6" 149.0, dT = -17sec																																
76831 is a close double. Observations are highly desired																																
Sep	10	3	21	35.0	r	76828kK0	9.0	8.4	52-	93	52	133	42N	312	341	317	-5.5	+1.7	+2.4	-1.4	.193	119.1	4	54	37.0	21	21	30	392.3	753.2		
*** A light curve is desired as 76828 is in the Kepler2 program {ID = 247395276}																																
Sep	10	3	32	28.9	r	735	K0	8.9	8.4	52-	93	53	136	70S	244	271	249	-5.5	+1.7	+1.1	+1.7	.389	-172.5	4	54	44.5	21	5	59	392.2	745.6	

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s	
Sep	10	4	7	29	M	76850	F0	7.4	7.2v	52-	92	-10	57	149	12N	342	2	347	-5.6	+1.6	+9.9	+9.9	.000	90.0	4	56	14.2	21	34	20	391.9	726.6
76850 = TAOS 22.00001, 7.34, range 0.00, 4V, Type DSCT, Period 0.046335 days, Phase 2%																																
Sep	11	0	12	18.7	R	77418	K0	7.7	7.2	43-	82	19	78	41S	219	260	219	-5.9	+0.6	-0.4	+2.2	.416	-142.3	5	41	59.5	22	33	7	391.2	998.9	
Sep	11	0	14	29.2	R	77405	F5	7.9	7.7	43-	82	20	78	61N	297	338	297	-5.9	+0.6	+0.3	+1.0	.400	139.7	5	41	46.8	22	52	13	391.1	996.4	
Sep	11	0	17	47.1	r	77410cA0	8.8	8.7	43-	82	20	79	75S	254	295	254	-5.9	+0.6	+0.0	+1.7	.522	-176.7	5	41	49.8	22	41	16	391.0	992.3		
77410 is double: ** 9.4 9.4 0.060" 140.0, dT = +0.05sec																																
77410 has been reported as non-instantaneous (OCc 321). Observations are highly desired																																
Sep	11	0	22	30.0	R	861	K2	6.4	5.7	43-	82	21	79	66S	245	286	245	-5.9	+0.6	-0.1	+1.8	.509	-167.8	5	42	4.0	22	39	37	390.9	986.7	
R861 = 175 H1. Tauri																																
Sep	11	0	47	1.8	r	77443	B9	8.3	8.3s	43-	82	24	84	58S	236	278	236	-5.9	+0.6	-0.1	+2.0	.474	-159.5	5	43	2.0	22	40	32	390.5	957.9	
77443 = NSV 16641, 8.23 to 8.31, Hp																																
Sep	11	0	48	2.2	r	77439	F0	8.8	8.6	43-	82	25	84	68N	290	332	290	-5.9	+0.6	+0.5	+1.2	.421	146.4	5	42	56.8	22	54	27	390.4	956.9	
Sep	11	0	51	44.6	r	77447	K2	9.0	8.4	43-	82	25	85	62S	240	282	240	-5.9	+0.6	+0.0	+2.0	.482	-163.6	5	43	9.5	22	42	1	390.4	952.4	
Sep	11	1	36	20.1	R	77488	K5	8.2	7.3	43-	82	32	93	64N	295	337	295	-6.0	+0.5	+0.8	+1.0	.373	141.4	5	44	38.9	23	1	15	389.6	901.3	
Sep	11	1	48	38.4	R	77496cG5	8.4	7.9	43-	82	34	95	85S	264	306	264	-6.0	+0.5	+0.5	+1.6	.465	172.1	5	44	57.8	22	54	37	389.4	887.2		
77496 is double: AB 9.0 9.4 0.50" 133.4, dT = +0.7sec																																
77496 is a close double. Observations are highly desired																																
Sep	11	2	12	0.7	R	77532cK0	8.2	7.6	43-	82	37	100	37S	216	257	216	-6.0	+0.4	+0.1	+2.8	.349	-139.7	5	46	10.6	22	46	22	389.0	862.3		
77532 is double: ** 9.1 9.1 0.050" 350.0, dT = +0.1sec																																
77532 has been reported as non-instantaneous (OCc 323). Observations are highly desired																																
Sep	11	2	28	19.6	r	77538	K2	8.8	8.2	43-	81	40	104	73N	286	326	285	-6.1	+0.4	+1.0	+1.0	.391	150.7	5	46	16.7	23	4	39	388.7	845.1	
Sep	11	2	55	11.0	R	77552	M0	8.6	7.7s	42-	81	44	110	62N	297	336	297	-6.1	+0.3	+1.3	+0.5	.330	139.5	5	47	11.6	23	10	18	388.3	818.8	
77552 = NSV 2631, 8.47 to 8.59, V																																
Sep	11	3	2	25.9	R	77559	K0	7.6	7.0	42-	81	45	112	57S	236	274	235	-6.1	+0.3	+0.6	+2.2	.403	-159.0	5	47	29.4	22	55	21	388.2	811.8	
Sep	11	4	15	47.7	R	77613	A2	8.4	8.2	42-	81	-9	54	132	32S	211	241	210	-6.3	+0.2	+0.7	+3.3	.273	-132.8	5	49	59.6	22	57	32	387.2	753.8
Sep	11	4	16	38.9	r	77610SF0	9.0	8.7	42-	81	-9	54	133	40S	219	248	218	-6.3	+0.2	+0.8	+2.8	.310	-140.5	5	49	53.6	22	58	48	387.2	753.2	
77610 is triple: AB 9.0 10.7 12.7" 251.0, dT = -35sec : AC 8.																																
4 9.0 112" 132.0, dT = -21sec																																
Sep	11	4	20	47	Gr	77617	G5	8.8	8.4	42-	81	-9	56	**	GRAZE: CA 11.2N;	Dist.162km	in az. 154deg.	[Lat = 50.38+0.30(E.Long-5.00)]														

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s	
Sep	11	4	22	38	m	77617	G5	8.8	8.4	42-	81	-8	55	134	11N	348	17	348	-6.3	+0.2	+9.9	+9.9	.000	90.0	5	50	31.0	23	27	43	387.1	750.0
Sep	12	0	26	39.1	r	78562	K0	8.7	8.2	33-	71	14	70	57S	241	281	236	-6.4	-0.8	-0.3	+1.8	.521	-158.5	6	37	40.0	23	31	8	386.1	11049.9	
Sep	12	0	34	49.7	R	1017SK0	6.8			33-	71	16	72	75S	259	299	254	-6.4	-0.9	-0.2	+1.6	.555	-176.5	6	37	52.5	23	36	16	385.9	1040.2	
1017 is triple: Aa,Ab 7.00 8.80 0.10" 146.0, dT = +0.07sec : AB 6.8 12.5 23.1" 34.3, dT = +29sec																																
1017 is a close double. Observations are highly desired																																
Sep	12	0	57	17.5	r	78588	A2	8.8	8.7	33-	70	19	76	23S	208	248	202	-6.4	-0.9	-0.7	+2.8	.309	-124.8	6	39	21.2	23	26	59	385.5	1014.1	
Sep	12	1	5	9.8	r	X 90914	9.0	8.4	33-	70	20	77	73S	257	298	252	-6.4	-0.9	+0.0	+1.7	.535	-174.7	6	39	4.8	23	37	52	385.3	1004.1		
Sep	12	1	31	51.2	R	1024	F5	7.4	7.2	33-	70	24	82	76S	260	302	254	-6.4	-1.0	+0.1	+1.7	.520	-177.5	6	40	5.4	23	40	26	384.8	972.2	
Sep	12	1	40	11.4	R	78623	F5	8.5	8.3	33-	70	25	83	67S	251	293	246	-6.4	-1.0	+0.1	+1.8	.506	-168.8	6	40	26.7	23	38	43	384.5	951.2	
Sep	12	1	50	13.0	R	78637	K2	8.1	7.6	33-	70	27	85	38N	327	9	321	-6.4	-1.0	+1.3	-0.5	.222	115.8	6	41	15.7	23	57	28			
Sep	12	3	8	51	Gr	78690	K7	8.9	8.1	32-	69	39	**	GRAZE: CA 12.0N; Dist.111km in az. 148deg. [Lat = 50.82+0.39(E.Long-5.00384.7 962.4																		
Sep	12	3	10	37	m	78690	K7	8.9	8.1	32-	69	39	100	12N	353	35	347	-6.5	-1.1	+9.9	+9.9	.000	90.0	6	44	34.2	24	5	37	383.0	861.8	
Sep	12	3	29	0.6	R	78687	K2	8.7	8.1	32-	69	41	104	85N	280	321	274	-6.6	-1.2	+0.9	+1.1	.434	163.1	6	44	12.5	23	53	8	382.7	841.9	
Sep	12	3	40	2	Gr	78712	A3	8.1	7.9	32-	69	44	**	GRAZE: CA 11.7N; Dist.143km in az. 151deg. [Lat = 50.52+0.34(E.Long-5.00)]																		
Sep	12	3	42	6	M	78712	A3	8.1	7.9	32-	69	43	107	11N	354	34	347	-6.6	-1.2	+9.9	+9.9	.000	90.0	6	45	37.1	24	7	36	382.5	830.4	
Sep	12	3	51	13.7	R	78707	K2	7.2	6.5	32-	69	44	110	31S	216	255	209	-6.6	-1.2	+0.3	+3.3	.295	-131.8	6	45	23.3	23	38	46	382.4	821.1	
Sep	12	4	25	3	m	78735	F2	8.9	8.7	32-	69	-8	49	118	11N	355	31	348	-6.7	-1.3	+9.9	+9.9	.000	90.0	6	46	59.5	24	10	57	381.9	792.8
Sep	12	4	37	53.1	R	78733c	F5	7.8	7.5	32-	69	-6	51	122	31S	216	251	210	-6.7	-1.3	+0.6	+3.4	.277	-131.0	6	46	50.8	23	40	49	381.7	782.2
78733 is double: ** 8.9 9.0 0.034" 127.0, dT = 0.00sec																																
78733 has been reported as non-instantaneous (OCc 268). Observations are highly desired																																
Sep	12	4	46	15.7	r	78729	F0	8.7	8.5	32-	69	-4	52	124	70S	255	289	249	-6.7	-1.3	+1.1	+1.5	.413	-170.1	6	46	40.2	23	49	50	381.6	775.8
Sep	12	4	56	50	Gr	78753	A0	8.6	8.6	32-	69	-3	53	**	GRAZE: CA 9.6N; Dist. 91km in az. 341deg. [Lat = 52.86+0.21(E.Long-5.00)]																	
Sep	13	0	7	57.7	r	79519	G5	8.1	7.7	24-	59	4	57	9S	199	233	188	-6.5	-2.2	-1.4	+3.1	.206	-109.5	7	34	44.4	22	57	11	381.3	1141.9	
Sep	13	0	30	19.0	R	79527	G5	7.3	6.8	24-	58	7	61	42S	233	269	222	-6.5	-2.2	-0.6	+1.8	.487	-143.7	7	35	11.3	23	2	45	380.8	1116.6	
Sep	13	2	9	49.0	d	1161	K5	5.9	5.1	23-	58	21	79	-50S	141	182	130	-6.5	-2.4	+0.6	+0.1	.338	-51.7	7	40	58.5	23	1	7	379.0	1001.3	
Sep	13	2	45	56	Gr	79618	F5	7.7	7.4	23-	57	27	**	GRAZE: CA 12.2N; Dist.205km in az. 148deg. [Lat = 49.82+0.39(E.Long-5.00)]																		
Sep	13	2	46	37.0	R	1161	K5	5.9	5.1	23-	57	26	86	27S	218	260	206	-6.5	-2.5	-0.3	+3.0	.323	-128.3	7	40	58.5	23	1	7	378.2	955.8	

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s		
Sep	13	2	48	59	M	79618	F5	7.7	7.4	23-	57	27	85	12N	359	42	348	-6.5	-2.5	+9.9	+9.9	.000	90.0	7	41	44.7	23	30	52	378.2	954.0	
Sep	13	2	52	37.2	R	79603	DA2	8.4		23-	57	27	87	83S	274	316	263	-6.5	-2.5	+0.4	+1.4	.515	175.2	7	40	45.3	23	14	48	378.1	948.3	
79603 is double: AB 8.51 11.29 2.62" 144.8, dT = +3sec																																
79603 is a close double. Observations are highly desired																																
Sep	13	3	11	18.3	R	79616	A0	8.2	8.1	23-	57	30	90	47S	238	281	227	-6.5	-2.6	+0.1	+2.3	.433	-148.8	7	41	37.1	23	5	27	377.8	927.0	
Sep	13	3	55	8.5	R	79634	K0	8.5	7.9	23-	57	37	99	89S	281	322	269	-6.6	-2.6	+0.7	+1.1	.473	169.7	7	43	2.3	23	16	42	376.9	879.0	
Sep	13	4	36	2.7	R	79657	K5	7.4	6.6	22-	56	-6	43	107	75N	297	337	285	-6.6	-2.7	+1.1	+0.5	.415	154.4	7	44	32.1	23	20	43	376.3	839.1
Sep	13	4	41	54.8	R	79663	K0	7.5	6.9	22-	56	-5	43	109	28S	219	259	208	-6.6	-2.7	+0.4	+3.5	.280	-127.8	7	45	1.9	23	1	11	376.2	834.1
Sep	13	6	47	44.7	r	1178	SG2	6.3	S	22-	56	14	58	148	72S	264	285	252	-6.9	-2.8	+1.4	+0.8	.407	-168.0	7	48	33.6	23	8	27	374.6	755.5
R1178 = 82 Geminorum																																
1178 is quadruple: AB 6.85 7.30 0.26" 24.0, dT = +0.32sec : AB,C 5.6 13.5 4.1" 35.8, dT = +7sec : AB,D 5.6 12.0 66" 25.0, dT = +84sec																																
1178 is a close double. Observations are highly desired																																
1178 = NSV 17606, 6.18, , Type VAR:																																
Sep	14	0	59	47.9	r	80262	kF8	8.1	7.8	15-	46	2	57	72N	305	339	289	-6.1	-3.6	-0.2	+0.6	.551	150.1	8	34	39.2	21	29	35	375.1	11155.3	
*** A light curve is desired as 80262 is in the Kepler2 program {ID = 212072039}																																
Sep	14	1	46	5.0	R	80281	A0	8.8	8.8	15-	45	8	66	48S	246	283	230	-6.1	-3.7	-0.4	+1.7	.530	-150.6	8	36	36.2	21	11	24	374.3	1103.1	
Sep	14	4	2	22	M	1308	SA1	4.7	4.7	14-	44	-11	28	90	12N	7	48	350	-6.0	-3.9	+9.9	+9.9	.000	90.0	8	43	17.1	21	28	7	371.6	944.4
R1308 = Asellus Borealis = Gamma Cancri																																
1308 is triple: AC 4.7 14.1 91" 258.0 : AB 4.7 10.2 116" 67.0																																
Sep	14	4	46	50.0	r	80388	K0	8.1	7.5	14-	44	-5	34	99	4S	202	243	186	-6.1	-4.0	-0.5	+7.6	.125	-104.5	8	44	19.2	20	52	37	370.8	896.3
Sep	15	4	23	57.5	r	98711	cF2	8.9	8.7	7-	31	-9	20	86	72N	314	354	294	-5.0	-5.0	+0.4	+0.3	.479	148.6	9	41	31.1	17	53	13	366.7	996.5
98711 is double: AB 9.2 9.8 0.17" 338.7, dT = -0.32sec																																
98711 is a close double. Observations are highly desired																																
Sep	20	17	54	22.5	d	2114	SA*	5.3	S	15+	46	-3	11	230	39S	156	127	140	+3.8	-3.2	+0.8	-2.0	.364	-44.4	14	49	19.1	-14	8	56	361.8	893.0
R2114 = mu Librae																																
2114 is multiple: AB 5.61 6.62 1.95" 7.1, dT = -5sec : AC 5.6 14.7 11.9" 295.9, dT = -25sec : AD 5.6 14.1 25.6" 164.6, dT = +70sec : AE 5.6 12.6 26.9" 230.8, dT = +20sec																																
2114 is a close double. Observations are highly desired																																
2114 = NSV 6816, 5.32, , Type ACV, Period 25.3992 days, Phase 10%																																

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s	
Sep	21	18	44	12.4	d	159512	G3	8.0	7.6	25+	60	-11	7	227	54N	65	37	54	+5.2	-1.7	+0.8	-1.0	.371	40.7	15	49	6.1	-18	42	15	366.3	868.7
Sep	25	19	37	42.8	d	188547	DF5	7.8		68+	111	13	187	41S	127	122	139	+6.7	+4.3	+1.9	-0.8	.268	-46.7	19	46	25.4	-24	52	42	385.7	731.6	
188547 is double: AB 8.23 9.39 1.24" 285.6, dT = -4sec																																
188547 is a close double. Observations are highly desired																																
Sep	26	20	46	27.4	d	189613	K0	7.2	6.7	77+	123	15	191	51N	33	26	49	+6.2	+5.4	+0.9	+0.5	.301	39.1	20	43	26.4	-22	27	14	390.0	734.3	
Sep	27	21	19	32.3	D	3164	SB3	4.5	4.6v	85+	135	19	187	88N	65	60	84	+5.5	+6.3	+1.4	+0.1	.382	2.1	21	37	4.8	-19	27	58	393.6	729.2	
R3164 = epsilon Capricorni																																
3164 is triple: AC 4.5 14.1 61" 165.4, dT = -31sec : AB 4.5 10.1 66" 46.0, dT = +164sec																																
3164 = eps Cap, 4.48 to 4.72, V, Type GCAS																																
Sep	27	22	2	47.6	d	164528	B8	7.5	7.5	85+	135	17	198	48N	24	12	44	+5.4	+6.3	+0.6	+0.7	.292	41.8	21	37	37.7	-19	13	52	393.8	746.9	
Sep	27	22	37	12.0	r	3164	SB3	4.5	4.6v	86+	135	15	206	-89N	247	230	267	+5.3	+6.3	+1.1	-0.5	.401	178.2	21	37	4.8	-19	27	58	394.2	767.9	
R3164 = epsilon Capricorni																																
3164 is triple: AC 4.5 14.1 61" 165.4, dT = -22sec : AB 4.5 10.1 66" 46.0, dT = +153sec																																
3164 = eps Cap, 4.48 to 4.72, V, Type GCAS																																
Sep	28	0	49	22.9	d	3175	G8	4.7	4.3	86+	136	3	234	89N	65	33	85	+5.1	+6.2	+0.5	-0.9	.458	0.7	21	42	39.5	-18	51	59	395.8	880.1	
R3175 = kappa Capricorni																																
Sep	30	23	34	13.5	d	147033	K0	7.7	7.0	99+	168	32	190	80N	28	22	51	+2.6	+7.2	+0.8	+1.2	.329	28.8	0	1	7.3	-5	52	28	400.4	729.8	
Distance of 147033 to Terminator = 18.8"; to 3km sunlit peak = 7.8"																																
Sep	30	23	40	0.4	d	147032	F5	7.8	7.6	99+	168	32	191	68N	16	9	39	+2.6	+7.2	+0.5	+1.6	.284	41.0	0	1	2.8	-5	50	6	400.5	731.1	
Distance of 147032 to Terminator = 16.6"; to 3km sunlit peak = 6.3"																																
Sep	30	23	49	1.5	D	3536c	M3	4.4	3.5v	99+	168	31	194	44S	83	75	107	+2.6	+7.2	+1.7	-0.3	.337	-26.7	.02	0	1	57.6	-6	0	51	400.5	733.3
R3536 = 30 Piscium (YY)																																
3536 is double: ** 5.2 5.2 0.050" 140.0, dT = +0.08sec																																
3536 has been reported as non-instantaneous (OCc1092). Observations are highly desired																																
3536 = YY Psc, 4.31 to 4.41, V, Type SR																																
Distance of 3536 to Terminator = 9.4"; to 3km sunlit peak = 1.7"																																

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV							
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s
Oct 1	0 58	28.8	r	3536c	M3	4.4	3.5	v	99+	169	27	213	-83S	210	191	234	+2.4	+7.2	+0.7	+0.8	.350	-153.1	.02	0	1	57.6	-6	0	51	401.0	763.2
R3536 = 30 Piscium (YY)																															
3536 is double: ** 5.2 5.2 0.050" 140.0, dT = -0.05sec																															
3536 has been reported as non-instantaneous (OCc1092). Observations are highly desired																															
3536 = YY Psc, 4.31 to 4.41, V, Type SR																															
Oct 2	21 40	0.3	R	109873	A0	7.4	7.3		99-	168	32	132	65S	247	275	269	+0.8	+6.6	+1.0	+1.7	.395	170.9	1	24	54.6	3	20	58	402.7	781.0	
Distance of 109873 to Terminator = 17.9"; to 3km sunlit peak = 7.2"																															
Oct 2	22 59	10.9	R	210DB	B9	6.6	6.7		99-	167	39	154	41S	222	238	243	+0.6	+6.5	+1.0	+1.7	.366	-165.2	1	26	53.6	3	32	8	402.1	737.9	
210 is double: AB 6.7 9.5 5.6" 329.6, dT = +5sec																															
210 is a close double. Observations are highly desired																															
Distance of 210 to Terminator = 9.9"; to 3km sunlit peak = 1.9"																															
Oct 2	23 32	52.0	R	109899	K2	7.6	7.1		99-	167	41	164	82S	263	272	284	+0.5	+6.4	+1.7	+0.7	.334	153.6	1	27	16.6	3	48	19	401.9	727.0	
Oct 2	23 47	42.2	r	109904	G5	8.6	8.1		99-	167	42	169	87S	268	275	289	+0.4	+6.4	+1.8	+0.4	.317	148.6	1	27	34.7	3	52	39	401.9	723.7	
Oct 3	19 14	57.7	r	303c	K0	6.4	5.9		96-	158	9	89	79N	273	312	292	-0.2	+6.0	+0.1	+1.6	.429	151.2	2	4	51.0	7	44	8	405.3	963.0	
303 is double: ** 7.2 7.4 0.40" 115.0, dT = +0.9sec																															
303 has been reported as non-instantaneous (OCc1174). Observations are highly desired																															
Oct 3	23 0	40.4	r	110383	G5	8.2	7.6		96-	157	40	140	63S	234	257	252	-0.6	+5.7	+1.0	+1.8	.387	-175.3	2	10	49.3	8	22	7	402.2	757.8	
Oct 3	23 32	19.5	R	322SG	0	5.6	5.3		96-	157	43	150	87S	258	276	276	-0.7	+5.6	+1.5	+1.2	.358	160.5	2	11	21.1	8	34	11	401.9	740.7	
R322 = 64 Ceti																															
322 is double: AC 5.7 13.8 282.0, dT = 0.00sec																															
Oct 3	23 37	41.9	D	327c	G8	4.4	3.9	s	96-	157	44	151	-43N	34	52	52	-0.7	+5.6	+0.8	+2.1	.346	24.1	2	13	0.0	8	50	48	401.9	739.1	
R327 = xi 1 Ceti																															
327 is double: AB 4.3 0.002" 209.3, dT = -0.01sec																															
327 = NSV 749, 4.35 to 4.38, V, Type E:																															
Oct 4	0 20	21.7	r	110404	K5	8.8	8.1		96-	156	46	165	79N	271	280	290	-0.9	+5.6	+1.9	+0.4	.309	146.5	2	12	21.2	8	47	19	401.7	722.4	
Oct 4	0 50	30.9	R	327c	G8	4.4	3.9	s	96-	156	47	176	88N	262	265	280	-0.9	+5.5	+1.7	+0.4	.336	156.1	2	13	0.0	8	50	48	401.6	715.8	
R327 = xi 1 Ceti																															
327 is double: AB 4.3 0.002" 209.3, dT = 0.00sec																															
327 = NSV 749, 4.35 to 4.38, V, Type E:																															

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s		
Oct	4	22	6	28.6	r	428	A3	8.5	8.4	92-	146	32	112	40N	309	345	325	-1.7	+4.8	+2.1	+0.2	.164	112.6	2	54	37.6	12	56	21	402.3	834.9	
Oct	4	23	17	18.7	r	93192	K2	8.7	8.1	91-	146	42	130	89N	260	289	275	-1.9	+4.7	+1.2	+1.5	.376	161.0	2	56	9.7	12	58	22	401.5	774.7	
Oct	5	5	11	31.9	R	93261	G8	7.4	6.9	91-	144	-6	35	246	39S	208	172	222	-3.0	+4.2	+0.9	+1.1	.301	-138.6	3	4	49.6	13	47	51	401.8	781.2
Oct	5	21	11	11.6	R	527	wK0	6.2	5.7	86-	136	21	89	83N	267	307	279	-2.9	+3.7	+0.3	+1.7	.451	159.2	3	39	25.8	16	32	12	402.2	940.6	
527 is double: AB 6.2 13.8 36" 156.6, dT = +28sec																																
Oct	6	3	14	51	Gr	93619	kK0	8.6	7.8	85-	134	54	**	GRAZE: CA 12.4N; Dist. 4km in az. 159deg. [Lat = 51.96+0.23(E.Long-5.00)]																		
Oct	6	3	14	51	gr	93619	kK0	8.6	7.8	85-	134	55	199	12N	338	325	349	-3.8	+3.1	+9.9	+9.9	.000	90.0	3	49	21.4	17	48	50	398.7	700.7	
*** A light curve is desired as 93619 is in the Kepler2 program {ID = 210660597}																																
Oct	6	4	3	32.4	R	93630	kG0	7.5	7.2	85-	134	51	217	40S	210	187	221	-4.0	+3.1	+1.2	+1.8	.284	-140.7	3	50	23.0	17	28	35	398.9	711.0	
*** A light curve is desired as 93630 is in the Kepler2 program {ID = 210636095}																																
Oct	6	20	38	45.2	r	93941	kA0	7.5	7.3	79-	125	12	73	55N	298	336	305	-4.1	+2.4	+0.1	+1.1	.368	133.9	4	27	1.6	19	50	36	400.9	1032.7	
*** A light curve is desired as 93941 is in the Kepler2 program {ID = 210798332}																																
Oct	6	22	12	51.2	R	93973	pF6	7.1	6.8	78-	125	25	90	59S	232	273	239	-4.2	+2.3	+0.0	+2.1	.455	-162.5	4	30	18.0	19	50	26	399.3	925.0	
*** A light curve is desired as 93973 is in the Kepler2 program {ID = 210798162}																																
93973 is double: AB 7.2 11.2 0.22" 260.9, dT = -0.43sec																																
93973 is a close double. Observations are highly desired																																
Oct	6	22	50	46.7	r	76638	PG8	8.6	8.2s	78-	124	31	97	75N	278	319	285	-4.2	+2.2	+0.7	+1.4	.399	151.0	4	31	15.7	20	7	59	398.6	882.8	
*** A light curve is highly desired as 76638 is in the Kepler2 program {ID = 210817382}																																
76638 is double: AB 8.7 14.4 19.6" 308.3, dT = -42sec																																
76638 = NSV 16049, 8.58, range 0.03, V																																
Oct	7	1	54	5.7	d	700	cB8	5.9	5.9E	77-	123	55	146	-66N	59	81	66	-4.7	+1.9	+1.2	+1.7	.372	10.4	4	38	15.8	20	41	5	396.4	727.2	
R700 = HU Tauri (129 H1.)																																
700 is double: ** 6.0 7.5 350.0, dT = 0.00sec																																
700 = HU Tau, 5.85 to 6.68, V, Type EA/SD:, Period 2.05630398 days, Phase 70%																																
Oct	7	3	13	57.6	R	700	cB8	5.9	5.9E	77-	123	59	180	89S	262	262	268	-4.9	+1.8	+1.6	+0.3	.358	169.8	4	38	15.8	20	41	5	396.0	699.1	
R700 = HU Tauri (129 H1.)																																
700 is double: ** 6.0 7.5 350.0, dT = 0.00sec																																
700 = HU Tau, 5.85 to 6.68, V, Type EA/SD:, Period 2.05630398 days, Phase 70%																																



day	Time	P	Star	Sp	Mag	Mag	%Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s	
Oct	7	3	34	49.0	r	76687kF5	8.7	8.4	77-	123	59	189	59S	232	226	239	-5.0	+1.8	+1.4	+1.3	.340	-159.6	4	38	59.5	20	36	14	396.0	697.3	
*** A light curve is desired as 76687 is in the Kepler2 program {ID = 247305974}																															
Oct	7	5	15	16.4	R	76708wK3	8.1	7.5v	77-	122	-6	52	228	88N	266	236	272	-5.3	+1.7	+1.4	-0.8	.371	171.2	4	41	18.9	20	54	5	396.2	721.4
76708 is double: AB 5.8 19.4 14.4" 199.0, dT = -15sec																															
76708 = V0834 Tau, 7.94 to 8.33, V, Type BY, Period 3.980 days																															
Oct	7	21	13	46.1	R	792 G8	5.0	4.5	70-	114	11	69	60S	237	275	239	-5.2	+1.0	-0.4	+1.7	.514	-160.9	5	19	16.6	22	5	47	397.6	1050.1	
R792 = 109 Tauri																															
Oct	7	23	25	36.3	r	77147 F5	8.8	8.5	70-	113	31	93	31S	208	250	210	-5.4	+0.7	-0.2	+2.8	.325	-134.0	5	24	19.2	22	18	20	395.3	897.6	
Oct	8	1	46	22.0	r	77189 G5	8.7	8.3	69-	112	51	125	58N	299	333	301	-5.7	+0.5	+1.8	-0.1	.284	135.4	5	28	6.0	22	55	50	393.2	760.6	
Oct	8	2	0	54.5	R	77191 K0	7.2	6.6	69-	112	53	130	72S	250	280	251	-5.7	+0.5	+1.1	+1.6	.392	-174.5	5	28	25.7	22	44	33	393.0	749.8	
Oct	8	4	43	18	m	77253 B2	8.8	8.7	68-	111	-12	61	198	7N	351	339	352	-6.2	+0.3	+9.9	+9.9	.000	90.0	5	33	33.6	23	20	32	392.1	700.6
Oct	8	4	57	21.4	R	77246wK0	7.9	7.2	68-	111	-9	60	204	70N	288	272	289	-6.2	+0.3	+1.6	-1.3	.330	153.4	5	33	5.4	23	8	32	392.1	703.0
77246 is double: AB 13.0 13.4 11.8" 351.1, dT = -16sec																															
Oct	8	5	3	41.3	R	77249 F8	8.6	8.2	68-	111	-8	59	207	66S	244	226	245	-6.2	+0.3	+1.6	+0.6	.353	-162.2	5	33	19.0	22	57	27	392.1	704.4
<b>Oct 8 22 29 3 Gr 954cG8 6.1 5.6 60- 102 17 ** GRAZE: CA 11.4N; Dist. 74km in az. 136deg. [Lat = 51.07+0.59(E.Long-5.00)]</b>																															
<b>Oct 8 22 30 27 M 954cG8 6.1 5.6 60- 102 16 72 11N 350 30 347 -6.2 -0.6 +9.9+9.9 .000 90.0 6 16 19.0 23 58 12 392.61023.2</b>																															
R954 = 8 Geminorum																															
954 is double: ** 6.9 6.9 0.10" 90.0																															
954 has been reported as non-instantaneous (OCc 288). Observations are highly desired																															
Oct	8	23	12	3.9	R	956 B3	6.2	6.0v	60-	102	22	80	80S	262	304	259	-6.2	-0.6	+0.1	+1.6	.511	177.9	6	16	58.7	23	44	27	391.8	972.3	
R956 = 9 Geminorum																															
956 = PX Gem, 6.23 to 6.30, V, Type ACYG, Period 13.700 days, Phase 30%																															
Oct	8	23	37	43.2	r	78192 M0	8.4	7.5v	60-	102	26	84	77N	285	328	282	-6.2	-0.7	+0.4	+1.2	.448	154.6	6	17	56.1	23	52	52	391.4	941.9	
78192 = ASAS J061756+2352.9, 8.3, range 0.09, V, Type MISC, Period 33.310481 days, Phase 92%																															
Oct	8	23	49	2.4	R	960 G5	6.6	6.1	60-	101	28	86	25S	207	249	203	-6.2	-0.7	-0.5	+3.1	.294	-126.9	6	18	54.4	23	36	12	391.2	929.0	
R960 = 10 Geminorum																															
Oct	8	23	51	9.4	r	78197wK0	8.2	7.6	60-	101	28	87	84S	266	309	263	-6.2	-0.7	+0.3	+1.6	.485	173.8	6	18	22.3	23	48	58	391.1	926.0	
78197 is double: AB 8.3 14.9 17.6" 149.7, dT = +16sec																															

day	Time	P	Star	Sp	Mag	Mag	%Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV								
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s
Oct 9	1 8	58.6	R	78258	cG0	8.2	7.9	59-	101	40	102	81N	281	322	277	-6.4	-0.9	+0.9	+1.2	.415	159.2	6 20	59.5	23 59	15	389.8	839.7				
78258 is double: 7.0 9.3 350.0, dT = 0.00sec																															
Oct 9	1 23	5.9	R	972	K0	7.3	6.6	59-	101	42	105	38S	220	261	216	-6.4	-0.9	+0.3	+2.9	.332	-139.5	6 21	49.2	23 45	38	389.6	825.6				
Oct 9	2 20	20.1	r	78304	pF5	9.0	8.7	59-	100	50	119	67N	295	331	291	-6.5	-1.0	+1.5	+0.3	.341	146.3	6 23	16.2	24 7	46	388.7	774.0				
*** A light curve is desired as 78304 is in the Kepler2 program {ID = 202073466}																															
78304 is double: ** 9.8 9.8 0.050" 350.0, dT = -0.08sec																															
78304 has been reported as non-instantaneous (OCc1310). Observations are highly desired																															
Oct 9	2 30	47.1	R	78312	A2	8.6	8.5	59-	100	51	122	89S	272	307	268	-6.5	-1.0	+1.2	+1.1	.400	169.9	6 23	28.5	24 2	20	388.6	765.7				
Oct 9	2 46	17	d	78336	F8	7.7	7.4	59-	100	53	126	4N	359	32	355	-6.6	-1.0	+9.9	+9.9	.045	83.5	6 25	0.9	24 18	8	388.4	755.6				
Oct 9	2 50	34	Gr	78336	F8	7.7	7.4	59-	100	54	**	GRAZE: CA 10.1N; Dist. 13km in az. 338deg. [Lat = 52.12+0.25(E.Long-5.00)]																			
Oct 9	2 54	42	R	78336	F8	7.7	7.4	59-	100	54	129	17N	346	18	342	-6.6	-1.0	+9.9	+9.9	.045	96.5	6 25	0.9	24 18	8	388.3	749.7				
Oct 9	3 23	32.2	r	X 87620		8.9	8.1	S	59-	100	57	140	75N	287	313	283	-6.7	-1.1	+1.6	+0.1	.355	156.0	6 25	2.5	24 9	11	388.0	732.1			
X 87620 = NSV 2949, 10.3,																															
Oct 9	22 47	29	M	1092	F5	5.9	5.6	50-	90	11	65	11N	356	34	348	-6.8	-2.0	+9.9	+9.9	.000	90.0	7 12	26.4	24 7	43	387.9	1067.8				
R1092 = 48 Geminorum																															
Oct 9	23 52	8.2	r	79190	A0	8.9	8.9	50-	90	21	77	60N	308	349	299	-6.8	-2.1	+0.5	+0.7	.395	138.5	7 14	12.8	24 1	9	386.7	989.7				
Oct 10	0 2	32.8	r	79194	F5	8.7	8.5	50-	90	22	79	65N	303	344	294	-6.8	-2.1	+0.4	+0.8	.418	143.4	7 14	33.3	24 0	28	386.5	977.2				
Oct 10	0 32	20.1	R	79214	G5	7.9	7.4	49-	89	26	84	76S	264	306	255	-6.8	-2.2	+0.2	+1.6	.502	-177.4	7 15	29.6	23 51	24	385.9	941.3				
Oct 10	1 3	21.4	R	79236	F8	8.1	7.9	49-	89	31	90	78S	266	308	257	-6.8	-2.2	+0.4	+1.6	.484	-179.4	7 16	36.3	23 52	59	385.4	905.2				
Oct 10	1 33	56.7	r	79251	cK0	8.7	8.2	49-	89	36	96	80N	288	331	279	-6.9	-2.3	+0.8	+1.0	.435	158.6	7 17	43.1	23 59	47	384.8	871.3				
79251 is double: 6.4 9.5 350.0, dT = 0.00sec																															
Oct 10	1 38	43.1	R	79257	cF5	8.4		49-	89	36	97	60N	308	350	299	-6.9	-2.3	+1.1	+0.3	.349	138.7	7 18	4.0	24 4	39	384.7	866.4				
79257 is double: AB 8.72 9.81 0.40" 165.4, dT = +0.9sec																															
79257 is a close double. Observations are highly desired																															
Oct 10	1 58	20.4	r	1107	A0	9.0	9.0	49-	89	39	101	50N	318	0	309	-6.9	-2.3	+1.3	-0.4	.285	128.9	7 18	51.5	24 7	6	384.4	846.1				
Oct 10	23 56	4.8	r	79997	K0	8.0	7.3	39-	78	12	69	66N	307	346	294	-6.9	-3.4	+0.1	+0.6	.466	144.9	8 10	54.7	22 43	43	381.7	1054.9				
Oct 11	2 10	32	Gr	80065	F8	8.8	8.5	38-	77	32	**	GRAZE: CA 9.7N; Dist. 93km in az. 337deg. [Lat = 52.92+0.27(E.Long-5.00)]																			
Oct 11	2 18	29.7	r	80065	F8	8.8	8.5	38-	77	33	95	27N	347	29	333	-7.0	-3.6	+1.9	-3.7	.141	106.9	8 16	58.3	22 45	45	379.0	889.2				

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA	Libration	A	B	RV	Cct	durn	R.A. (J2000)	Dec	Mdist	SV									
m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s	
Oct	13	2	12	30	m	98983	wK2	8.4	8.0	19-	51	11	78	10N	15	53	353	-5.8	-5.5	+9.9	+9.9	.000	90.0	10	10	39.7	16	2	15	369.01049.9			
98983 is double: AB 7.0 10.4 18.6" 302.1																																	
Oct	13	2	15	48.3	R	98974	G5	8.6	8.1	19-	51	11	79	66N	319	358	297	-5.8	-5.5	+0.2	+0.2	.484	146.0	10	9	43.4	15	55	59	368.91044.7			
Oct	13	2	50	45.8	R	98984	F0	8.0	7.8	18-	51	16	85	79S	283	323	261	-5.8	-5.6	+0.2	+1.2	.562	-177.4	10	10	42.9	15	42	16	368.21004.4			
Oct	13	5	20	31.5	r	99030	F8	8.8	8.4	18-	50	-7	38	117	83N	302	336	280	-5.8	-5.7	+0.9	+0.2	.475	168.6	10	16	0.0	15	23	42	365.5 858.2		
Oct	13	8	17	53.3	r	1514	A1	6.2	6.2s	17-	48	18	53	174	41N	344	348	322	-6.1	-5.6	+0.6	-2.6	.306	132.6	10	21	50.3	14	58	33	363.6 797.3		
R1514 = 42 Leonis																																	
1514 = NSV 4828, 6.09 to 6.17, V																																	
Oct	14	4	23	18.0	R	99474	cF8	8.4		10-	37	18	97	44S	254	292	230	-4.3	-6.1	+0.3	+2.2	.442	-142.0	11	9	48.2	10	9	26	362.3 985.7			
99474 is double: AB 8.59 9.87 0.59" 302.4, dT = -0.9sec																																	
99474 is a close double. Observations are highly desired																																	