KG
11365
910

1926phae.proj..911G

B. P. G

Spectrophotometry

3

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1926phae.proj..9116

KG11365 .918



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2 15G 1/365.910

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B Stars

Wolf Rayet Stars

F Superjants.

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1926phae.proj..9116

V

		a	0.0		2043
		Hβ	085	20565 v.	
		b	140		2090
		c	292		2140
K		d	445		2190
	2.75	e	595		2230
		f	752		2275
δ	2.55	Hδ	845	23033 v.	
i		g	930		2325
	2.00	h	1145		2385
h		i=H5	1300	24373 v.	2437
	2.10	j	1600		2500
g		H_ξ	1670	25781 v.	
	1.75	K	1875		2570
f		H_2	1890	25713 v.	
	1.55				
e					
	1.50				
d					
	1.50				
c					
	1.50				
b					
	1.40				
a					

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1926phae.proj..9126

X 14938

2φ 1378 HD 153890 F_0

a	235	420	371	623	252
b	145		161		462
c	098		-009		632
d	085		-071		694
e	089	418	-051	621	672
f	1.00		000		621
g	1.02	415	009	618	609
h	120	415	079		539
i	136		134		484
j	182	412	260	615	355
k	300	410	477	613	136 ✓

2φ 1378 HD 153575 B_8

a	.	410			
b	366		564	613	049
c	330		579		094
d	310	412	491	615	124
e	310	413	491	616	125
f	312	414	494	617	123
g	320	415	505	618	113
h	329	418	517	621	104
i	339	420	530	623	103
j		420			

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1926phae.proj..9136

6

X 14938

μ Ψ 1379 HD 153919

a	332	420	521	623	102 v	-0.43
b	230		362		261 v	-0.70
c	178	418	250	621	371 v	-0.70
d	159		201		420 v	-0.65
e	160	414	204	617	413 v	-0.67
f	164	412	215	615	400 v	-0.69
g	172		236		379 v	-0.54
h	180	410	255	613	358 v	-0.58
i	198		297		316 v	-0.57
j	247	408	393	611	218	-0.40
k	337	405	528	608	080	-0.38

μ Ψ 1379 HD 153767 Ao

a	380	418	580	621	041
b	330		579		102
c	290	415	462	618	156
d	270	413	431	616	185
e	262		418		198
f	260		415		201
g	260		415		201
h	265	411	423	614	191
i	270	410	431	613	182
j	312		494		119
k	370	409	568	612	044 v

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X 14881 μ Ψ 1291

HD 153890 F_0

a	370	730	568	863	295
b	258		412		457
c	202		305		558
d	195		290		573
e	198		297		566
f	211		324		539
g	228	735	358	866	508
h	250	737	398	867	469
i	275	739	439	869	430
j	222	740	508	869	361
k	575	741	712	870	158

μ Ψ 1293

HD 153575 B_8

a	680	740	833	869	036
b	620		792		077
c	565		752		117
d	545		736		133
e	550		740		129
f	550		740		129
g	550		740		129
h	557	739	746	869	123
i	569		755		114
j	600		778		091
k	685		836		033

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8

X 14881 μ Ψ 1292

HD 153767 A₀

a	660	750	820	875	055	
b	565	748	752	874	122	
c	482	745	683	872	189	
d	460		663		209	
e	460		663		209	
f	460	742	663	870	207	
g	462		665		205	
h	475	740	677	869	192	
i	490		690		179	
j	535		728		141	
k	652		814		055	

μ Ψ 1290

HD 153919

a	500	732	699	865	166	−0.73
b	390	732	591	865	274	−0.71
c	330		578		347	−0.61
d	310		491		374	−0.61
e	310		491		374	−0.63
f	315		498		367	−0.67
g	325	735	572	866	354	−0.56
h	346		582		334	−0.55
i	360		556		310	−0.57
j	420		623		243	−0.45
k	565		752		114	

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H.D 153890

m = 6.5

F0

	Cor.	refer. to 153767 Δm
a	−0.3	−1.2
b	−0.3	−1.2
c	−0.2	−1.1
d	−0.2	−1.1
e	−0.2	−1.1
f	−0.2	−1.1
g	−0.1	−1.0
h	−0.1	−1.0
i	−0.1	−1.0
J	0.0	−0.9
K	0.0	−0.9

HD 153575

m = 8.0

B8

	Cor	Δm
	−0.1	+0.5
	−0.1	+0.5
	−0.1	+0.5
	−0.1	+0.5
	−0.1	+0.5
	−0.1	+0.5
	−0.2	+0.4
	−0.2	+0.4
	−0.2	+0.4
	−0.2	+0.4
	−0.3	+0.3

Ao Am 153767 m = 7.4

Observed gradient
for H.D. 153919

$\bar{X}$ 14881	−0.63
$\bar{X}$ 14938	−0.77

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1926phae.proj..9116

10

X 14944

(a) HD 164152 A0 8.6 BM -32.13617

a	445	505	648 v	703 v	055 v
b	360	505	556 v		147 v
c	300		477 v		226 v
d	275		439 v		264 v
e	270		431 v		272 v
f	260		415 v		288 v
g	260		415 v		288 v
h	275		439 v		264 v
i	290		462 v		241 v
j	330		578 v		185 v
k	430		684 v		069 v

HD 164270 B0p 8.6 BM -32.13623

a	430	509	634 v	707 v	073 v
b	385		586 v		121 v
c	350		544 v		163 v
d	350		544 v		163 v
e	355	508	550 v	706 v	156 v
f	358		554 v		152 v
g	372	505	571 v	703 v	132 v
h	380		580 v		123 v
i	410		613 v		090 v
j	450		653 v		050 v
k					

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1926phae.proj...9176

c

XIV944 HD 162557 Bg 8m.9 -32.13558

μ4 1401

a						
b						
c						
d	350	√20	√44 v	724 v	180 v	Bg
e	350	√20	√44 v		180 v	11700 °(+.11)
f	352		√47 v		177 v	
g	350	√25	√44 v	720 v	176 v	a 0
h	360	√25	√56 v		164 v	b 0
i	369	√20	√67 v	716 v	149 v	c 0
j	400		602 v		114 v	d 0 8.9
k	469	√78	671 v	714 v	043 v	e -0.1 8.8

-32.13565

f -0.1 8.8

g -0.1 8.8

h -0.1 8.8

i -0.1 8.8

j -0.1 8.8

k -0.1 8.8

b HD 162598 Ao 8m.8

μ4 1402

a	440	√05	644 v	703 v	059 v
b	368		√06 v		137 v
c	310	√05	491 v	703 v	212 v
d	290		462 v		241 v
e	285		455 v		248 v
f	285	√02	455 v	701 v	246 v
g	285		455 v		246 v
h	292		465 v		236 v
i	300	√00	477 v	699 v	222 v
j	338		529 v		170 v
k	420		623 v		076 v

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Redetermination of the phot. magn. of comp. Stars K 14944.
Sequence on MC 8681
pl. AM 12035 J.5.

= a	5-8-4	= 9.24	9.40
= b	5-5-4	= 9.56	9.74
= c	5-3-4	= 9.78	9.98

4 = 9.02
5 = 10.10

B_g

a	-0.0	10.0
b	-0.0	10.0
c	-0.0	10.0
d	-0.0	10.0
e	-0.1	9.9
f	-0.1	9.9
g	-0.1	9.9
h	-0.1	9.9
i	-0.1	9.9
j	-0.1	9.9
k	-0.1	9.9

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1926phae.proj..9136

H 3298 1 γ Lyrae

α	360	410	556	613	057	
a	288		459		154	
l	340		532		081	
p	318		502		111	
c	150		176		437	
γ	143		155		458	
δ	218		338		~~627~~ 57	
ε	280		447		~~(16 67)~~	

MRA = $3^h 08^m$ $z = 40°$

1-31

2 γ Lyrae

						mean
α	350	412	544	615	071	064
a	270		431		184	169
l	330		579		096	088
p	345		538		077	094
c	180	415	255	618	363	400
γ	143	416	155	619	464	461
δ	150		176		442	358
ε	192		283		336	250

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14

H 3398 3 plates

α	240	428	380	631	251
a	146		164		467
l	295	429	371	633	252
p	205		301		232
c	058		-237		870
γ	045	430	-347	634	981
δ	075		-125		759
ε	120		079		555

4 plates

α	170	420	280	623	393
a	085	422	-071	625	696
l	140		186		479
p	150		176		449
c	035	425	-457	628	1084
γ	025		-502		1230
δ	045		-347		985
ε	080		-097		725

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H 3398 ν γ Lyrae

d	110	405	091	608	561	
a	042		-377		985	
l	095	407	-022	610	682	
p	100	408	-0990	611	611	
c	015	410	-824	613	1439	
g	010		-1000		1613	
s	018		-745		1358	
e	042		-377		990	

✓

6 γ Cygni HA = 2h 14m Z = 26°

-0.20

1.1.

d	140	412	146	615	469	0.14
a	058		-237		852	0.12
l	148		170		445	0.33
p	170		230		385	0.55
c	060		-222		837	0.82
g	085		-071		686	1.23
s	170		230		385	1.47
e	280		447		168	

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H 3398 7 o Aquarii V 1^h55^m Z=.530

+0.35	α	170	425	230	628	398	029	1.66
	a	098		-009		637	039	
	b	165	427	218	630	412	0.40	
	β	138.		140		490	0.23	
	c	040		-398		1028	0.40	
	γ	030		-525		1053	0.44	
	δ	050	428	-201	.631	932	0.42	
	ε	080		-097		728	0.32	

8 π Aquarii V 0^h57^m Z=43

+0.06 1.37

α	190	439	279	642	363	0.38
a	160		+042		683	0.31
b	180		255		387	0.44
β	165		218		424	0.38
c	052		-284		926	0.62
γ	048		-347		989	0.75
δ	060		-222		864	0.54
ε	085		-079		713	(0.36)

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H 3298 9 O Star (20h0 +35°7 ✓ 3h34m

Z = 40°

0.0

α	262	385	418	586	168	1.07	1.31
a	188	387	274	588	314	1.13	
b	260	390	415	591	176	1.16	
β	270		431		160	1.24	
c	138		140		451	1.35	
γ	130	392	114	593	479	1.50	
δ	160		204		389	1.47	
ε	200	393	301	594	293	1.40	

3h12m Z = 35°

10 57 Cygni ✓

1.22

−0.09

α	258	448	412	657	239	0.79
a	140		146		505	0.68
b	217		336		315	0.62
β	200		301		350	0.67
c	052	449	−284	652	936	0.60
γ	045		−347		999	0.73
δ	062		−208		860	0.54
ε	098		−009		661	0.46

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H 3398 11 – 41 Cygni ✓ $3^h 53^m$ $Z = 48°$

1.49

+0.18

κ	062	402	-208	604	812	
a	030		-523		1127	
b	100	403	000	605	605	0.04
p	088	405	-056	607	662	-0.08
c	030	406	-523	608	1131	0.24
g	038	407	-420	610	1030	0.67
d	070	409	-155	612	767	0.73
e	120		079		533	0.82

12 π_2 Cygni ✓ $3^h 47^m$ $Z = 39°$

1.29

-0.02

κ	125	412	061	615	554	-0.01
a	050		-301		816	0.16
b	105		020		594	0.07
p	090		-046		661	-0.08
c	018	410	-745	613	1358	+0.05
g	015		-824		1437	+0.10
d	022		-658		1271	+0.04
e	040		-398		1011	-0.02

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1926phae.proj..9136

H3398 13 2 Lacerta ✓ $2^h 21^m$ $Z = 26°$

−0.20 1.14

α	170	398	230	600	370	0.35
a	080	398	−097		697	0.31
b	145	398	161		439	0.35
p	120		079		521	0.16
c	030		−523		1123	0.26
d	029		−538		1138	0.46
e	038	400	−420	602	1022	0.08
E	055		−260		862	0.12

$Z = 30$

−0.15 14 2 Lacer ✓ $2^h 38^m$ 1.16

α	225	439	342	642	300	0.58
a	095		−022		664	0.34
b	160		204		438	0.35
p	170		230		412	0.43
c	040		−398		1040	0.38
d	030		−523		1165	0.41
e	045		−347		989	0.30
E	070		−155		797	0.20

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1926phae.proj..91G

20
H 3298 15-6 Lacertae $2^h 43^m$ $z = 31^\circ$

−0.14	α	200	429	301	633	332	0.47	1.17
	a	100		000		633	0.40	
	b	170	428	230	631	401	0.42	
	β	150	426	176	629	453	0.30	
	c	045		−347		970	0.52	
	γ	040		−398		1027		
	δ	050		−301		930	0.41	
	ε	075		−125		754	0.27	

16-6 Lacerta $2^h 54^m$ 32°

1.18

−0.13	α	210	430	322	634	312	0.50	
	a	095		−022		656	0.37	
	b	155	428	190	631	445	0.34	
	β	150		176		455	0.30	
	c	040		−398		1029	0.40	
	γ	038		−420		1051		
	δ	048		−319		950	0.37	
	ε	068		−168		799	0.26	

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1926phae.proj..9.1.G

X 14877 μ4 1395

HDC 150592 8.5 B9

a	465	490	668	690	022
b	438		642		048
c	403		605		085
d	380		580		110
e	370		568		122
f	370		568		122
g	380		580		110
h	387		588		102
i	395		597		093
j	420		623		067
K					

HDC 150500 7.2 B8

a	310	490	491	690	199
b	195		290		400
c	138		140		550
d	115		061		629
e	105		021		669
f	105		021		669
g	108		033		657
h	115	487	061	688	627
i	127		104		584
j	155	482	190	683	498
K	280		447		236

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1926phae.proj..9116

X 14877 μφ 1396

HD 150958 78 Oe

a	395	492	597	692	095	7.94 pm.
b	300		477		215	7.84
c	238		377		315	7.81
d	210		322		370	780
e	215		332		360	7.84
f	228	490	358	690	332	7.91
g	240		380		310	7.90
h	250	488	398	688	290	7.90
i	260	487	415	688	273	788
j	310	482	491	683	192	7.98
k	410	480	613	681	068	

Corrections made according to pp. 11 and 9.

	magn. of 150592 (B9)	magn. of 150500 (B8)
a	8.5	7.1
b	8.5	7.1
c	8.5	7.1
d	8.5	7.1
e	8.4	7.1
f	8.4	7.1
g	8.4	7.0
h	8.4	7.0
i	8.4	7.0
j	8.4	7.0
k	8.4	6.9

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1926phae.proj..9196

X 14928 $p\phi$ 1393

HD 150592 8.5 B9

a					
b					
c	415	468	618	670	052
d	400		602		068
e	398		600		070
f	392	470	593	672	079
g	390		591		081
h	400		602		070
i	411	471	614	673	059
j	427	473	630	675	045
k					

HD 150500 7.2 B8

a					
b					
c	175	475	243	668	425
d	149		173		495
e	145		161		507
f	142		152		516
g	142		152		516
h	155	478	190	679	489
i	165		218		461
j	200		201		378
k					

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1926phae.proj..91G

24

X 14928 μ 1394

HD 150958 7.8 Oe

a						
b						
c	282	478	450	679	229	7.84
d	255		406		273	7.83
e	258		412		267	7.83
f	260		415		264	7.83
g	267		427		252	7.83
h	275		439		240	7.82
i	288		459		220	7.84
j	315		498		181	7.82
k						

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1926phae.proj..9113

X 14887 μ Ψ 1413
HDC 163724 8.0 Ao

a	450		653		028
b	420	480	623	681	058
c	398		600		081
d	380		580		101
e	375		574		104
f	380		580		101
g	385		586		095
h	393		594		087
i	415		618		063
j	435		638		043
k					

μ 1414 HD 163482 7.1 Ao

a	380		556		125
b	245	480	389	681	292
c	190		279		402
d	165		218		463
e	162	483	210		471
f	165		218		463
g	162		210		471
h	170		230		457
i	185		267		414
j	220		342		339
k					

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1926phae.proj..9116

X 14887 mq 1413

HDC 163758 7.1 de

a	405		608		073	7.56
b	330	480	578	681	163	7.60
c	270		431		250	7.52
d	250		398		283	7.55
e	242		384		297	7.53
f	245		389		294	7.52
g	240		380		301	7.57
h	260		415		266	7.57
i	275		439		242	7.55
j	310		491		190	7.55

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1926phae.proj..9113

X 14933 pm 1415

HD 163724 8.0 Ao

a	420	450	623	653	030
b	370		568		085
c	320		505		148
d	295		470		173
e	285		454		199
f	270		431		222
g	270		431		222
h	270		431		222
i	280		447		206
j	320		505		148
k	288		589		064

pm 1416 HD 163482 7.1 Ao

a	270	450	431	653	222
b	170		230		423
c	120		079		574
d	100	448	000	657	657
e	098		-009		660
f	092		-036		687
g	088	446	-056	649	705
h	080	445	-097	648	745
i	085		-071		719
j	100		000		648
k	208	440	318	644	326

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1926phae.proj..9116

X 14933 μ 1415
H 163758 7.1 Oe

a	200	450	477	653	176	7.33
b	200		301		352	7.20
c	150		176		477	7.31
d	128		107		546	7.31
e	122		086		567	7.29
f	125		097		556	7.36
g	125		097		556	7.38
h	140		146		507	7.51
i	150		176		477	7.53
j	185		267		386	7.46
k	300		477		176	7.61

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1926phae.proj..9136

H 3412 H 3412 Pf 2478

5 Lacert

α	300	390	477	591	114
a	160		204		387
b	225		252		239
p	290		462		129
c	125		130		461
γ	090		-046		637
δ	090		-046		637
ε	125		097		494

MMA = $2^h 54^m$ $z = 32°$

1.18 6 α Lacert

α	120	387	079	588	509
a	080		-097		685
β	138		140		448
β	100	385	000	586	586
c	040		-398		984
γ	029		-538		1124
δ	045		-347		933
ε	085		-071		657

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1926phae.proj..91G

μ4 3439

H 3412 7 2 Cocentaur

α	075	380	-125	580	705
a	045		-347		927
b	095		-022		602
A	070		-185		785
c	020		-699		1279
f	020		-699		1279
δ	030		-523		1103
ε	060		-222		802

μ4 3445

12 - 1 cen. 2^h29 Z = 3/0 1.08

±
-0.02

α	140	380	146	580	434	0.90
a	090		-046		626	087
b	150	375	176	574	398	0.89
β	170	370	230	568	338	(1.07)
c	040		-398		966	0.78
f	030		-523		1091	0.59
δ	042	367	-377	565	942	0.71
ε	068	365	-168	562	730	0.51

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1926phae.proj..9116

HP 3445 Star near to λ Cygni

H 3412 12a — ~~HRP 1747~~ unidentified star $2^h 29^m$

−0.02 $Z = 30°$

α	150	380	176	580	704	0.95	
a	085		−097		677	0.77	1.16
b	160		204		376	097	
A	205		312		268	(1.20)	
c	080		−097		677	1.19	
δ	080		−097		677	1.19	
δ	135		130		450		
ε	200		301		279		

1 − β Lyrae $5^h 13^m$ $Z = 62°$

+0.95 2.13

α	110	418	041	621	580	0.60	
a	060		−222		843	0.46	
b	115		061		560	0.46	
A	120		079		542		
c	045		−347		978	0.76	
δ	040		−398		1019	0.94	
δ	065		−187		808	1.03	
ε	100	415	000	618	618	0.91	

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1926phae.proj..91G

32

H 3412

+0.17

μ Cygni 3482

4 JJ Cygni $4^h 05^m$ $Z = 42°$

α	090	400	-046	602	648	0.48	1.25
a	082		-495		1097	(0.10)	
b	070		-155		757		
A	080		-097		699		
c	042		-377		979	0.76	
γ	045		-347		949	~~1.05~~	
δ	075		-125		727	1.24	
ε	105		021		581	1.08	

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1926phae.proj..913G

β. is not used.

pg 3460

43405 3 - 9 Sagittae $2^h 33^m$ $Z = 42°$

+0.30	α	112	255	049	406	357	0.68	rejected, wrong at the suggestion of the other image
	a	032		-495		901	0.64	
	b	055	252	-260	401	661	0.55	1.35
	β	110		041		360	0.53	
	c	038		-420		821	86	
	γ	035		-456		857	98	
	δ	050		-301		702	1.16	
	ε	070		-155		556	1.10	
	α1	~~260~~ 060	255	-222	406	628	0.59	rejected more to suggestion
	x	~~060~~ 100	252	000	401	401	0.52	

pg 3460

8 - ~~β Lyrae~~ ε Lacertae MMA. $1^h 33^m$ $Z = 18°$

1.05

	α	290	367	462	565	103	
	a	155		190	27	375	
	b	225		352		213	1.05
	β	308		489		076	
	c	190		246		419	
	γ	102		009		556	
	δ	108		033		532	
	ε	150		176		389	
	α1	220	365	342	562	220	
	x	300	368	477	566	089	

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1926phae.proj..91G

H 3405

μφ 3461

9 - ~~Lyrae~~ Draconis

α	260	408	415	611	196	150
a	160	408	~~204~~		407	421
b	232		365		246	230
β	285	405	455	608	153	115
c	122		086		522	470
γ	112	402	049	604	545	550
δ	125	400	097	602	505	518
ε	165		218		384	386
ζ1	230	408	362	611	249	235
x	295	405	470	608	138	114

μφ 3461

10 ~~Lyrae~~ Draconis

α	180	377	255	576	321
a	055	375	-260	574	~~83~~ 4
b	100		000		574
β	200	374	301	573	272
c	050	372	-301	571	872
γ	038		-420		991
δ	042	370	-377	568	945
ε	070		-155		723
ζ1	108	377	033	576	543
x	180	375	255	406	~~151~~ 519

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1926phae.proj..9.1.6

Rs 3462

11 ~~type~~ 2 lac

H 3405

α	100	380	000	580	580
a	030		-523		1103
b	065		-187		767
ρ	130		114		651
c	025		-602		1182
δ	022		-658		1238
δ	025		-602		1182
ε	050		-301		881
α	060	378	-222	576	798
x	123	380	090	580	490

ps 3467

16a - HRP 189 too weak

α	210	320	322	505	183	1.06
a	150		176		329	
b	203		308		197	
ρ	230	318	362	502	140	
c	115	315	061	498	437	
δ	105	312	021	494	473	
δ	125	310	097	491	394	
ε	150		176		315	

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1926phae.proj..9136

H 3405 my 3464

6 – π Aquarii 0.45m Z = 420

+0.30 1.35

α	310	377	044	576	535	0.56
a	042		-377		953	0.54
b	090		-046		622	0.63
p	125		097		489	
c	040		-398		974	0.59
f	035		-456		1032	0.67
g	058		-304		877	0.86
e	070		-185		731	0.73
+1	080	378	-097	578	670	0.52
x	145		161		417	0.49

7 – θ Hor (20h 53m, +44° 5) 2h 27

Z = 27°

+0.07 1.12

α	225	372	371	571	200	1.04
a	132	370	121	568	447	1.47
b	210		322		246	1.46
p	95		389		160	1.16
c	195		1097		479	1.51
f	112		049		579	1.54
g	150	368	176	566	2390	1.73
e	180		255		311	1.67
+1	188	370	274	568	294	1.84
x	270	370	431		137	1.41

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1926phae.proj..9116

μ Cyg 3465

H 3405 14- HD 114470 HH 2h17m

z = 35°

+0.17 1.22

~~α~~	~~080~~	285	~~-097~~	455	~~552~~	~~0.35~~
a	028		~~-699~~		1254	0.25
b	~~068~~		-222		677	0.57
b	0					
c	032	282	-495	450	945	0.63
γ	048		-319		769	1.11
δ						
ε				~~455~~		
~~H~~	035		-456	~~678~~	901	0.18
x	105		021		434	0.45

μ Cyg 3468

0.00 17 λ Cas 1h11m

z = 18°

~~α~~	~~230~~	~~360~~	~~362~~	~~556~~	~~194~~	~~1.04~~
a	200		000		556	1.26
b	~~168~~		204		~~352~~	1.23
b						
c	~~280~~		-097		653	1.18
γ	~~048~~		~~-108~~		~~664~~	~~1.29~~
δ	098		-009		565	1.47
ε	132		121		435	~~1.39~~
α1	160		204		352	1.18
x	225		352		204	1.16

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1926phae.proj..9136

H 3405

cf 3463

MA = 0 19m

4 - β Piscium

Z = 40°

+0.25

1.30

~~α~~	~~110~~	~~302~~	~~041~~	~~480~~	~~439~~	~~0.54~~
a	042		-377		857	0.71
e	070	300	-155	477	632	0.61
D						
c	035		-456		933	0.65
γ	030		-523		1000	0.73
δ	040	298	-398	474	872	0.88
ε	070		-155		629	0.93
ζ	075	302	-125	480	605	0.63
x	132	300	121	477	356	0.64

5 o Aquarii

0h57m Z = 46°

+0.39

1.44

α	055	328	-260	476	776	0.51
a	030		-523		1039	0.42
e	060		-222		738	0.39
D						
c	028	326	-658	473	1171	0.84
γ	020		-699		1212	0.35
δ	025		-682		1165	0.45
ε	040		-398		911	0.23
X	110		041		472	0.34

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1926phae.proj..0139

pg 3483

H 3405

15 HRP 8926 $2^h 41^m$ $Z = 30°$

1.16

+0.11

α_1	095	268	-022	528	450	0.94
a	055		-260		688	1.01
b	095		-022		450	1.02
x	140		146		282	0.89
c	042		-377		805	0.89
γ	089		-409		837	1.00
δ	050		-301		729	1.12
ε	072		-143		571	1.07

16 ~~HRP 189~~ 0 Cass. on the edge of the Plate

$0^h 41^m$

$Z = 10°$

1.02

-0.03

α_1	100	330	000	518	518	0.79
a	060		-222		740	0.91
b	100	332	000	521	521	0.86
x	160	333	204	522	328	0.77
c	050	335	-301	525	826	0.85
γ	048	338	-219	529	748	1.15
δ	065		-187		716	1.12
ε	085		-071		600	1.00

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1926phae.proj..9146

40

H 3469

H 3469

δ - α Lacerta

α_1	205	370	312	568	256
a	120		079		489
b	185		267		301
x	265		423		145
c	095		-022		590
γ	080		-097		665
δ	075		-125		693
ε	100		000		568

H 3470

6 - α Lacerta

dec A $2^h 24^m$

$\zeta = 26°$

1.13

α_1	100	380	000	580	580
a	045		-347		917
b	085		-071		651
x	155		190		390
c	030		-523		1103
γ	025		-602		1182
δ	028		-553		1133
ε	039		-409		989

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1926phae.proj..9136

H 3460 μ 3420

7 – α Lacerta

α1	050	380	-398	580	881
a	020		-699		1279
b	050		-301		881
x	100		000		580
c	010		-1000		1580
r	012		-921		1501
δ	025		-824		1404
ε	025		-602		1182

3 – 35 Cygni μ 3469 β 4h 45m

z = 45°

+0.28

α1	050	380	-301	580	881	0.31	1.41
a	080		-523		1103	0.57	
b	100		000		580	0.90	
x	195		290		290	1.04	
c	060		-222		802	1.16	
r	070		-125		705	1.46	
δ	120		079		501		
ε	162		210		770		

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1926phae.proj..9146

H 3410

11 – HRP 189 pg 3471 $1^h 12^m$ $Z = 15°$

−0.09	α1	111	380	045	580	5355	0.83	1.04
	a	055		−260		840	0.86	
	b	100		000		580	0.90	
	x	162		210		370	0.79	
	c	030		−523		1103	0.76	
	g	020		−699		1279	0.60	
	d	030		−523		1103	0.78	
	ε	040		−398		978	0.78	

12a HRP 144 $1^h 42^m$ $Z = 21°$

−0.06	α1	130	380	114	580	461	0.95	1.07
	a	055		−260		840	0.86	
	b	108		033		547	0.96	
	x	170		230		350	0.85	
	c	028		−602		1182	0.67	
	g	018		−745		1325	0.54	
	d	022		−658		1238	0.58	
	ε	037		−432		1012	0.71	

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1926phae.proj..9036

H 3414 γ Q 3474

9 - 2 Lacerta

$\alpha 1$	138	280	140	447	307
a	086		-065		512
b	130	277	114	443	329
x	175		243		200
c	058		-237		680
γ	050		-301		744
δ	065	-	-187		630
Σ	090		-046		489

γ^1 25

1.04 8 2 Lacerta $z = 15°$

$\alpha 1$	230	209	362	490	128
a	177		248		242
b	220		342		148
x	258	311	412	493	081
c	128	315	107	498	391
γ	118		072		426
δ	125	317	097	501	404
Σ	160	320	204	505	307

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1926phae.proj..9116

H 3444

μ 9 3475
10 - d Lacerta

α_1	090	278	-046	444	490
a	045		-347		791
b	080		-097		541
x	120	280	079	447	368
c	035		-456		903
γ	025		-602		1049
ζ	082		-495		942
ε	050		-301		748

11 d Lacertae

					Bor
α_1	040	280	~~-055~~	447	~~544~~
a	035		-456		903
b	040		-398		845
x	055		-260		707
c	015		-824		1271
γ					
ζ					
ε					

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1926phae.proj..9113

H 3444 — 6 Cygni — overexposed!

α1	042	265				
a	020					
b	030					
x	058	260				
c	009	260				
β	008					
δ	012					
ε	020					

H 3473

1 γ Lyrae — 3^h23 — $z = 41°$

+0.20

1.33

α1	088	310	-056	491	547	0.09
a	040		-398		889	0.09
b	090	305	-046	484	530	0.32
x	135		120		354	0.35
c	020	303	-699	481	1180	
γ	023		-638		1119	0.24
δ	040	300	-398	477	875	0.39
ε	072		-147		624	0.49

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1926phae.proj..9116

3414

13 HRP 111470 μφ 3476

$2^h 17^m$ $Z = 31°$

	21	040	282	-398	450	848	~~0.02~~
+0.17	a	020		-699		1149	
	b	042		-377		827	0.02
	x	094		-027		477	0.16
	c	020		-699		1149	0.07
	γ	020		-699		1149	0.24
	δ	040		-398		848	0.42
	ε	060		-222		672	0.42

1.21

2 γ Lyrae μφ 3473

$3^h 30^m$ $Z = 43°$

+0.24

1.37

21	140	280	146	447	301	0.76
a	080	280	-097	450	534	0.68
b	135		136		317	0.77
x	175	275	243	439	196	0.77
c	045	272	-347	435	782	0.56
γ	040		-398		833	0.61
δ	059		-229		664	0.69
ε	090	270	-046	431	477	0.79

to be repeated

repeat (done more satisfactorily)

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1926phae.proj..9113

H 3419 μ4 3484

1 – γ Lyrae

+0.60 $4^h 40^m$ $z = 53°$ 1.66

α1	250	332	398	√21	123	0.88
a	230	339	362		159	1.17
b	272		435		086	1.28
x	295		470		058	129
c	158		190		331	1.30
γ	150		176		345	1.37
δ	185		267		254	1.35
ε	238		271		150	147

μ4 3488

+0.01 7 – 5 Cas $1^h 37^m$; $z = 21°$

1.07

α1	280	375	447	√74	127	0.93
a	215		332		242	0.80
b	270		431		143	0.81
x	305		484		090	0.88
c	098		-009		√83	0.73
γ	080		-097		671	0.63
δ	110		041		√33	0.43
ε	150		176		398	0.22

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1926phae.proj..9148

H 3419

μ 4 3484

2 – α Lacerte

α1	360	390	556	591	035
a	315		498		093
b	340		532		059
x	365		562		029
c	230		362		229
γ	212		326		265
δ	240		380		211
ε	280		447		144

M KA = 1h 41m Z = 20°

μ 4 3485 1.0

1.06

3 α Lacertae

α1	265	380	423	580	157
a	212		326		254
b	265		423		157
x	300		477		103
c	100		000		580
δ	091		-041		621
ε	141		149		431
ε	220		342		238

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1926phae.proj..9119

my 3485

h 3419 γ – α Lacertae

α1	245	380	389	580	191
a	175		243		337
b	230		362		218
x	280		447		133
c	080		-097		677
d	065		-183		767
δ	104		017		563
ε	165 –		218		362

my 3486

δ – α Lacertae

α1	180	380	255	580	325
a	118		072		508
b	195		290		290
x	250		398		182
c	047		-328		908
d	048		-319		899
δ	070		-155		735
ε	125		097		483

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1926phae.proj..9116

50

h 3419

mp 3486

6 – 10 Lacertae $2^h 40^m$ $Z = 31°$

+0.11

α_1	275	398	439	600	161	065	1.07
a	192	400	283	602	319	0.38	
b	260		415		187	0.53	
x	310		491		111	0.47	
c	092		-036		638	0.47	
y	080		-091		699	0.59	
δ	105		021		587	0.27	
ε	140		146		456	0.08	

mp 3488

8a – HRP 144 $1^h 16^m$ $Z = 17°$

+0.23

1.29

α_1	318	380	502	580	078	1.25
a	280		447		133	1.31
b	320		505		075	1.37
x	345	382	538	582	044	1.32
c	162		210		372	1.21
y	148	385	170	586	416	1.23
δ	170		220		356	0.99
ε	202		305		281	0.57

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1926phae.proj..9136

H 3419 — Pp 3489 — $1^h 24^m$

9a HKP 144 — $z = 19^0$

+0.27

α1	~~345~~	379	491	579	0.88	1.17
a	250		398		181	1.05
b	300		477		102	1.10
x	330	377	578	576	058	
c	133	376	124	575	451	1.04
d	120	375	079	574	495	1.04
δ	~~142~~		152		422	0.78
ε	~~180~~		255		319	0.44

1.33

10 ϕ Persei

out of focus.

α1	238	380	377	580	203	0.26
a	215		332		248	0.69
b	260	382	415	582	167	0.64
x	300		477		105	0.60
c	104		017		565	0.78
d	090		-046		628	0.74
δ	110		041		541	0.40
ε	137		137		445	0.08

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1926phae.proj..9176

M φ 3494

A 3423 1 - α Lacerta from comb. curve

α1	270	440	431	644	213	2.05
a	175		243		401	1.40
b	255		406		238	1.90
x	320		505		109	
c	102		009		635	0.80
γ	085		-071		715	0.55
δ	120		079		565	1.04
ε	165		218		426	1.51

MKA: $0^h 55^m$ $z = 21^0$

1.07. 2 - α Lacerta

α1	150	440	176	644	468
a	087	439	-040	642	682
b	160		204		438
x	242		384		258
c	051		-292		934
γ	043		-366		1008
δ	072		-143		785
ε	125		097		545

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1926phae.proj..9336

H 3423

HP 3495

3 α Lacertae

α1	095	442	-022	645	667
a	039		-409		1054
b	090	~~440~~	-046		691
x	165		218		427
c	025		-602		1247
d	022		-658		1303
δ	032		-495		1140
ε	075		-125		770

4 – α Lacertae

α1	045	418	-847	621	968
a	015		-824		1445
b	042		-377		998
x	100		000		621
c	010		-1000		1621
d	008		-1.097		1718
δ	015		-824		1445
ε	038		-420		1041

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1926phae.proj..9116

h 3423 — 10 - 2 Lacertae — 4h 00 — Z = 41 — +0.26

κ Y 3497 — Combined curve — two week — 1.33

21	300	435	477	638	161	2.23	+0.18
a	240		380		258	1.77	+0.33
b	305		484		144	2.30	+0.40
x	350		544		094	2.63	
c	105	432	021	636	615	0.88	~~+0.47~~
γ	111		045		591	0.95	+0.40
δ	165	432	218	638	418	1.54	+0.50
ε	240	432	380	636	256	(1.92)	+0.41

κ Y 3496

5 - 22 Andromedae — 0h 52m — 9° — −0.06

1.01

21	028	422	-553	625	1178	−0.11
a	007		-1155		1780	
b	055		-260		885	+0.09
x	142	420	152	623	471	0.23
c	022		-658		1281	0.28
γ	025		-602		1225	0.41
δ	060		-222		845	0.67
ε	100		000		623	

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1926phae.proj..9136

H 3423

μ 3496

6 – ν Andromedae

$0^h 26^m$

$z = 3°$

-0.07

α_1	080	388	-097	√89	686	0.29
a	029		-538		1127	0.24
b	068		-167		756	0.23
x	135		130		459	0.24
c	012	385	-921	√86	1507	0.08
r	008		-1097		1683	0.08
δ	018	382	-745	√82	1327	0.11
ε	035		-456		1038	0.01

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56

H 3425

cy 3499

1 - γ Trianguli $1^h 13^m$ $z = 18°$ 1.05

21	300	421	477	624	147	
a	212		236		388	1.55
b	308		489		135	too weak
x	360		556		068	
c	108		033		591	
γ	110		041		583	
δ	170		230		394	
ε	240		380		244	

2 - γ Trianguli $1^h 23^m$ $z = 19°$ 1.05

21	273	413	436	616	180	2.22	+0.17 weak
a	175		243		373	1.48	+0.08
b	270		431		185	2.20	+0.30
x	330		578		098		
c	085		-071		687	0.63	+0.17
γ	085		-071		687	0.63	+0.08
δ	135		130		486	1.32	+0.28
ε	202		205		311	1.91	+0.30

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~~H 3493~~
3336

mg 3491

1 – ζ Lyrae

Δ1	115	320	061	505	444
a	060		-222		727
b	121		083		422
x	175		243		262
c	025		-602		1107
γ	023		-638		1143
δ	050		-301		806
ε	095		-092		527

2 – ζ Lyrae

Δ1	040	318	-398	502	900
a	012	320	-921	505	1426
b	040		-398		903
x	098		-009		574
c	007		-1 ~~155~~ 305		1806
γ	005		-1 ~~523~~ 199		~~2028~~ 2204
δ	010		-1000		1505
ε	022		-658		1163

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58

H 3336

μφ 3492

3 - β Lyrae

Δ1						
a						
b						
x						
c						
γ						
δ						
ε						

8 - β Sagittae

Δ1	085	307	-071	487	558	1.35
a	045		-347		834	1.41
b	087		-061		548	1.34
x	148		140		317	1.38
c	040	309	-398	490	888	
γ	030	310	-523	491	1014	1.66
δ	041		-387		878	1.48
ε	0650		-292		709	1.33

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1926phae.proj..9556

H3336 9 – A Cygni 4493

α1	030	308	-523	489	1012	0.55
a	022		-658		1147	1.05
ρ	030		-523		1012	0.58
χ	070		-155		644	
c	010	310	-1000	491	1491	
δ	007		-1155		1646	
β	010		-1000		1491	
ε	015		-0824		1315	

Overexposed

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1926phae.proj..9116

60

X 14939 — HD 92644 B8 8.6

B_8 cor

		540						
a	495	~~445~~	695	732	037	0.0	8.6	
b	490	542	690	734	044	0.0	8.6	
c	462	545	665	736	071	0.0	8.6	
d	450		653		083	0.0	8.6	
e	445		648		088	0.0	8.6	
f	445		648		088	0.0	8.6	
g	445	548	648	739	091	-0.1	8.5	
h	450	550	653	740	087	-0.1	8.5	
i	460		663		077	-0.1	8.5	
j	480		681		059	-0.1	8.5	
k								

HD ~~14939~~ 93911 8.5 B5

a	475	545	677	736	059	8.6
b	398		600		136	8.6
c	350		544		192	8.5
d	335		525		211	8.5
e	325		512		224	8.5
f	325		512		224	8.5
g	328		516		220	8.5
h	340	548	532	739	207	8.5
i	350	550	544	740	196	8.5
j	380		580		160	8.4
k	460		663		077	8.4

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1926phae.proj...9.jpg

X 14939 HD 92741 7.3 B3

a	480	550	681	746	065	7.4
b	400		602		144	7.4
c	340		532		214	7.3
d	320		505		241	7.3
e	310		491		255	7.3
f	315		498		248	7.3
g	320		505		241	7.3
h	330	548	578	739	221	7.3
i	342	547	534	738	204	7.3
j	365		562		176	7.2
k	460	543	663	735	072	7.2

HD 93206 6.6 B0

a	330	529	578	724	206	6.7
b	240		380		314	6.7
c	200		301		423	6.6
d	185	525	267	720	453	6.6
e	185		267		453	6.6
f	185		267		453	6.6
g	192	522	283	718	435	6.6
h	200	520	301	716	415	6.6
i	210		322		394	6.6
j	227		356		360	6.5
k	315		498		218	6.5

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1926phae.proj..9116

62

X 14939

HD 93502 6.2 Ao

a						
b						
c						
d						
e						
f	150	530	176	724	548	
g	152		182		542	6.2
h	167		223		501	
i	185		267		~~471~~ 457	
j	212		326		398	
k	322		508		216	

HD 92740 6.3 Ocp

a	355	530	550	724	174	680
b	265		423		301	6.79
c	220		342		382	6.70
d	198		297		426	6.70
e	190		279		445	6.62
f	192	527	283	722	439	6.63
g	200		301		421	662
h	218		338		384	6.68
i	230		362		360	670
j	267		426		296	6.70
k						

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1926phae.proj..9136

X 14939 HD 93131 6.3 Ocp

a	350	570	544	708	164	6.82
b	260		415		293	6.80
c	212		326		382	6.70
d	190		279		429	6.68
e	180	572	255	709	454	6.60
f	185		267		442	6.64
g	180		255		454	6.55
h	198		297		412	6.62
i	209	577	320	714	394	6.60
j	230	579	362	715	353	6.52
K	210	520	491	716	225	6.48

η Carinae

a	500	542	699	734	035	(8.60)
b	470		672		062	
c	445		648		086	
d	442	540	645	732	087	
e	440		644		088	
f	447	538	650	731	081	
g	450	535	653	728	075	
h	460	533	663	727	064	
i	467	532	669	726	057	
j	490		690		036	
K						

too weak

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1926phae.proj..9116

64

X 14941

HD 97520 8.7 F5

a	427	422	630	625	005	8.5
b	350	422	544		081	8.6
c	320		505		120	8.6
d	310	420	491		124	8.6
e	303	420	481	623	142	8.7
f	305		484		139	8.7
g	308	418	489	621	132	8.7
h	318	412	502	615	113	8.8
i	330		518		097	8.8
j	356	410	551	613	062	8.8
k						

HD 97522 7.5 Bo

a	350	420	514	623	079	7.6
b	270		431		192	7.6
c	220		342		281	7.5
d	200		301		322	7.5
e	200		301		322	7.5
f	209	418	318	621	303	7.5
g	215	415	332	618	285	7.5
h	225		352		266	7.5
i						
j						
k						

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1926phae.proj..9106

HD 96568 6.6 A2

a	132	420	121	623	502	
b	050		-201		924	
c	028		-553		1176	6.6
d	021		-678		1201	
e	020		-699		1322	
f	022		-658		1281	
g	028		-553		1176	
h						
i						
j						
K						

HD 96548 8.2 Oe

a	365	435	562	639	077	7.62
b	290		462		177	7.66
c	230	430	362	634	272	7.54
d	205		312		322	7.48
e	211	428	324	631	307	7.56
f	220	425	342	628	286	7.60
g	235	423	371	626	255	7.60
h	250	422	398	625	227	7.68
i	270	420	431	623	192	
j	300	418	477	621	144	
K	372	412	571	615	044	

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1926phae.proj..9166

66

X 14871

HD 97320 8.7 F5

a	600	640	778	806	028
b	520		716		090
c	469	635	670	803	133
d	440	635	644		159
e	440		644		159
f	450	630	653	799	146
g	460		663		136
h	490	628	681	798	117
i					
j					
k					

HD 97522 7.5 B0

a	610	639	785	806	021
b	550		740		066
c	490		690		116
d	465		668		138
e	463		666		140
f	470		672		134
g	475		677		129
h	485		686		120
i					
j					
k					

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1926phae.proj..9116

λ 14871

HD. 96548 8.2 Oe

a	590	620	771	792	011
b	540	625	732	796	064
c	495		686		110
d	450		653		143
e	460	629	663	799	136
f	472		674		125
g	490		690		109
h	500		699		100
i	575		712		087
j	550	635	740	803	063
k	610		785		018

HD 96568 6.6 a.2

a	365	632	562	801	239
b	190		279		522
c	120		079		722
d	100	638	000	805	805
e	100	640	000	806	806
f	105	645	021	810	789
g	110		041		769
h					
i					
j					
k					

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1926phae.proj..9116

X 14947

HD 165154 8.3 A0

a	570	530	708	724	016
b	478		679		045
c	440		644		080
d	430		634		090
e	430		634		090
f	430		634		090
g	432		636		088
h	445		648		076
i	452		655		069
j	478		679		045
k					

HD 165784 7.3 A2p

a	310	530	491	724	233
b	185		267		457
c	135		130		594
d	130		114		610
e	140		146		578
f	155		190		534
g	172		236		488
h	200		201		423
i	230		362		362
j	290		462		262
k	422		625		099

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1926phae.proj..9196

α 14947 HD 165763 7.7 O a

a	490	520	690	716	028	8.26
b	440		644		072	8.24
c	400		602		114	8.23
d	367		565		151	8.18
e	370	525	568	720	152	8.17
b	370		568		152	8.16
g	375		574		146	8.17
h	390		591		129	8.14
i	408		611		109	8.16
j	445		648		072	8.18
R	490	530	690	724	034	

HD

a						
b						
c						
d						
e						
b						
g						
h						
i						
j						
R						

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1926phae.proj..91.6

70

α 14872

HD 97557 8.6 A_2

a	475	525	677	716	039	
b	430	520	634		082	
c	380	519	580	715	135	
d	360		556		159	
e	360		556		159	8.0
f	370	515	568	712	154	
g	376		575		137	
h	390		591		121	
i	410		613		099	
k	452		655		057	

new determ. phot. mags.
m=8.0

HD 96654 8.6 Bg

a							
b							
c	450	520	653	716	063	7.9	8.0
d	438		642		074	7.9	8.0
e	430		634		082	7.8	7.9
f	430		634		082	7.9	7.9
g	430		634		082	7.9	7.9
h	435		638		078	7.7	7.9
i	445		648		068	7.9	7.9
k	460		663		053	7.8	7.9

m=8.0

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1926phae.proj.: 9116

K 14872 — HD 96970 — 8.3 A0

								Combined	
	a	465	505	668	703	075		7.95	0.37
	b	418		621		082			082
	c	370		568		135			110
	d	356		551		152			128 –
m = 7.9	e	352		546		157	7.9		133 –
	f	360		556		147			128
	g	365		562		141			120
	h	380		580		123			108
	i	390		591		112			060
	j	425		628		075			062
	δ_R								

HD 97166 — 7.9 B2

									Combined	
	a	400	520	602	716	114	8.0	7.4	7.3	110
	b	300		477		239	8.0	7.4	7.3	230
m =	c	210		322		394	7.9	7.3	7.25	358
7.3	d	180		255		461	7.9	7.3	"	419
	e	178		250		466	7.9	7.3	"	414
	f	175		243		473	7.9	7.3		410
	g	180		255		461	7.9	7.3	7.2	395
	h	190		279		437	7.9	7.3	7.2	370
	i	205		312		404	7.9	7.3	7.2	334
	j	250		398		318	7.8	7.2	715	254
	δ_R	370		568		148	7.8	7.2	715	110

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1926phae.proj..91G

HD 96829 7g B8

72
+14872

a	410	575	613	719	106	7g	7.2
b	315		498		221	7g	7.2
c	250		398		321	7.1	7.2
d	220		342		377	7g	7.2
e	228		358		361	7g	7.2
f	235		371		348	7g	7.2
g	240	572	380	709	329	7.8	7.1
h	255	570	406	708	302	7.8	7.1
i	278		444		264	7.8	7.1
j	330		528		190	7.9	7.1
k	430	508	684	706	072	7.8	7.1

m = 1.2

HD 97152 7g O2

a	490	570	690	708	018	
b	430		684		074	0.98
c	360		556		152	0.83
d	325		572		196	0.79
e	318		502		206	0.77
f	318		502		206	0.77
g	315	570	498		210	0.63
h	320		505		203	0.69
i	342		534		174	0.57
j	382	575	582	712	130	0.55
k	460		663		049	

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1926phae.proj..9173

α 14896 HD 152294 9.4 Ao

a						
b						
c						
d	432	530	636	7.24	088	
e	430		634		090	9.4
f	430		634		090	
g	435		639		085	
h	440		644		080	
i	448	528	654	7.23	072	
j	472		674		049	
k						

HD 152438 8.2 B8

a						
b	465	520	668	716	048	8.2
c	400		602		114	8.2
d	360	522	556	718	162	8.2
e	350		544		174	8.2
f	342		534		184	8.2
g	342		534		184	8.1
h	358		554		164	8.1
i	375		574		144	8.1
j	415		618		100	8.1
k	485		686		032	8.1

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1926phae.proj..9116

74

14886

HD 152250 8.2 F0

a	440	530	644	724	080	8.0	mean for it
b	335		525		199	8.0	
c	260		415		309	8.1	
d	240		380		344	8.1	253 8.15
e	240		380		344	8.1	259 815
f	250		398		326	8.1	255 815
g	260		405		319	8.2	256 815
h	290		447		277	82	218 815
i	305		484		240	82	192 815
j	370	535	568	728	160	8.3	130 820
k	480		681				

HD 152386 8.8 Oe

a						
b	478	534	679	728	049	
c	438		642		086	
d	420		623		105	9.26
e	418		621		107	9.24
f	425		628		100	9.30
g	437	537	641	730	089	9.40
h	450		653		077	9.44
i	470	539	672	732	060	948
j	500		699		033	
k						

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1926phae.proj..9136

x 14936

HD 152294 9.4 A.o.

a						
b	455	500	658	699	041	
c	430		634		065	
d	422		625		074	
e	420	495	623	695	072	
f	420	492	623	692	069	9.4
g	415	490	618	690	072	
h	420	488	623	688	065	
i	425	482	628	683	055	
f_R	440	480	644	681	037	

see plate x14886 / pp 73-74

HD 152438 8.2 B8

a	450	520	653	716	063	
b	380	518	580	714	134	
c	340	515	532	712	180	
d	320	510	505	708	203	8.2
e	310		491		217	
f	300	505	477	703	226	
g	300	502	477	701	224	8.1
h	300	500	477	699	222	
i	300		477		222	
f_R	320	495	505	695	190	
	400	492	602	692	090	

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1926phae.proj..9116

76

+14936

HD 152250 8.2 F₀

a	370	510	580	708	128			
b	290		462		246			
c	250	509	398	706	208	244	85	
d	230		362		344	273		
e	298	505	358	703	345	281		
f	230		362		341	283		
g	298	502	358	701	343	282		
h	285	500	371	699	328	280		
i	240		380		319	270		
j	265	495	423	695	272	281	820	
k	365	492	562	693	131			

HD 152386 8.8 Oe

a	435	515	638	712	074	S	
b	370	512	568	709	141		
c	332	510	521	708	187	8.15	
d	320		505		203	8.22	
e	320	508	505	706	201	8.34	
f	330		519		187	8.49	
g	340	505	532	703	171	8.56	
h	360		556		147	8.75	
i	362	500	559	699	140	8.74	
j	400	498	602	697	095	8.90	
k	450		653		044		

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1926phae.proj..9116

H.3429 10 γ Trianguli

α	250.	285	298	455	057
a	190		279		176
b	240		380		075
x	265		423		032
c	070		-155		610
γ	060		-222		677
δ	092		-036		491
ε	150		176		279

MKA = 0h 59m Z = 15°.

1.04

11 - γ Trianguli

1.04

α	140	291	146	464	318
a	070		-155		619
b	130		114		350
x	200		201		163
c	025		-602		1066
γ	017		-770		1234
δ	025		-602		1066
ε	052		-284		748

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78

H 3429 12 γ Trianguli

d	052	285	-284	455	729
a	015		-824		1279
b	050		-301		756
x	122		086		369
c	008	287	-1.097	458	1.555
γ					
δ	005		-1.201		1759
q	016	290	-796	462	1258

13 - γ Trianguli

d	040	310	-398	491	889
a	010		-1000		1491
b	035	308	-456	489	945
x	090		-046		535
c					
γ					
δ					
q	012		-921		1410

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H 3429 1 – 2 Lacertae V

$2^h 34^m$ $Z = 26$

+0.07 1.11

α	225	310	352	491	129	1.15
a	170	311	230	493	263	1.28
b	288		377		126	1.27
x	275	312	439	494	058	1.28
c	105		021		473	(1.59) extrapol
γ	090		-046		546	
δ	118		072		422	(1.64) extrapol
ε	150		176		318	1.42

2 ξ Cetig. $0^h 39^m$ $Z = 90$

-0.03 1.01

α	155	311	190	493	303	0.77
a	088		-056		549	0.83
b	148		170		323	0.79
x	210	310	322	491	169	0.74
c	025		-608		1099	0.71
γ	020	309	-699	490	1189	0.76
δ	027	308	-569	489	1058	0.76
ε	045	305	-347	484	831	0.66

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1926phae.proj..9113

H 3429. 3 - ξ Cub. V $0^h 45^m$

$z = 10°$

-0.02

α	175	300	243	477	234	0.91	1.02
a	125		097		380	1.07	
b	185		267		210	1.02	
x	232		366		111	0.93	
c	045		-347		824	0.99	
γ	082		-495		972	1.02	
δ	045		-347		824	0.99	
ε	060		-222		699	081	

4 Π Androm. $1^h 03^m$ V

$z = 16°$

1.04

0.00

α	165	300	218	477	259	0.85	
a	090	202	-046	480	526	0.86	
b	145		161		319	0.80	
x	200		301		179	0.72	
c	030		-523		1003	0.80	
γ	015		-823		1303	0.68	
δ	029		-538		1018	0.79	
ε	050		-301		781	0.70	

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1926phae.proj.-0113

H 8429 $\sqrt{\pi}$ Ann. $1^h 10^m$

$z = 17°$ V

1.05

+0.01

α	245	320	389	491	102	1.29
a	170		230		261	1.28
b	232		306		125	1.28
x	265	312	423	494	071	115
c	062		-208		702	1.15
β	050	315	-301	498	799	1.26
δ	072		-143		641	1.22
ε	111		045		453	1.20

6 – 2 Cass.

overexpd

α	098	312	-009	494	503	0.51
a	040		-308		802	0.57
b	070		- 155		649	0.41
x	120		079		415	0.24
c	005		-1.201		1795	
β						
δ	010		-1.000		1494	0.38
ε	015		-824		1318	0.26

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1926phae.proj..9116

82

H 3429

7 Z Cas 1^h29^m $Z=19°$ V

+0.02

1.06

Combs Bands ?

α	220	318	342	496	154	1.10	0.80
a	142		152		344	1.12	0.85
b	200		201		195	1.06	0.73
x	255		371		125	0.87	0.55
c	030		-523		1019	0.79	
γ	022°		-658		1154	0.80	
δ	042		-377		873	0.95	0.64
ε	082		-086		582	0.99	0.62

8 — v. And. 1^h26^m $Z=17°$ V

+0.01

1.05

α	180	310	255	491	236	0.90
a	100		000		491	0.91
b	160		204		287	0.86
x	220	312	342	494	152	0.80
c	030	315	-523	498	1021	0.79
γ	015	319	-824	504	1328	0.65
δ	025	320	-602	505	1107	0.70
ε	050		-301		806	0.68

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1926phae.proj.:9116

H 3429 9 — φ Persei $0^h 41^m$ $Z = 11°$

−0.02 1.02

α	080	328	−097	√76	613	0.41
a	035		−456		972	0.46
b	085		−071		√87	0.47
x	162		210		306	0.43
c	020		−699		(1215)	(0.61)
δ	010		−1000		1576	
ε	018		−745		(1261)	(0.56)
ζ	020	330	−√23	√78	1051	0.45

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1926phae.proj..91

84

H 3430

1 – β Trianguli

Handw. 3429

α	140	300	146	477	331	0.73
a	065		-187		664	0.71
b	125	302	097	480	283	0.70
x	196		292		188	0.70
c	022	305	-658	484	1142	0.67
β	018	308	-745	489	1234	0.72
δ	025		-602		1091	0.72
ε	052	310	-284	491	775	0.72

5 ξ Persei

1h16m Z = 16°

0.00

1.04

α	135	310	120	491	361	0.69
a	070		-155		646	0.72
b	140		146		345	0.75
x	215		332		159	0.77
c	033		-481		972	0.84
β	022		-658		1149	0.81
δ	030	308	-523	489	1012	0.80
ε	050		-301		790	

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1926phae.proj..9106

H 3430 6 – c Persei $1^h 17^m$ Z=15

0.00 Whitford

1.04

α	130	308	114	489	375	0.67
a	065	308	-187		676	0.69
b	132		121		368	0.72
x	210	305	322	484	162	0.76
c	020		-699		1183	
γ	012		-921		1405	
δ	025		-602		1086	0.72
ε	045		-347		831	0.67

-0.01 7 – d Perseï $1^h 16^m$ Z=13

1.03

α	140	320	146	505	359	0.69
a	063		-201		706	0.66
b	130		114		391	0.69
x	210		322		183	0.70
c	025	318	-602	502	1104	0.71
γ	015		-824		1326	0.66
δ	025		-602		1104	0.71
ε	040		-398		900	

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1926phae.proj..9186

H 3430 3 - HRP 985 $1^h 15^m$ Z=24

1.10

+0.06

α	133	315	124	498	374	0.67
a	060	312	-222	494	716	0.65
β	120		079		419	0.65
x	195	310	290	491	201	0.66
c	015		-824		1215	0.52
γ	012		-921		1412	
δ	015		-824		1315	0.52
ε	030		-523		1014	0.48

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1926phae.proj.. 9136

pl 3575

Tracing repeated

H 3414 2 γ Lyrae

d	180	350	255	∂44	289	0.80
a	110		041		∂03	0.76
b	170	349	230	∂43	213	0.78
x	225	345	352	∂38	186	0.81
c	080		-097		635	0.86
γ	090	343	-155	∂35	690	0.86
δ	100	340	000	∂32	∂32	1.01
ε	135		130		402	0.99

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1926phae.proj..9116

H 3422

Handcatalogue H 3421

1.10

1 – α Lacertae $2^h 16^m$ $Z = 24°$

1.

α	250	309	398	490	092	1.04	
a	129		111		379	0.71	
b	175		243		247	0.70	
β	210		322		168	0.94	
c	055	310	−260	491	751	0.68	
γ	040		−398		879	0.57	
δ	065	311	−187	493	680	0.72	
ε	105		021		472	0.76	

8 – A Persei $0^h 21^m$ E. $Z = 10°$

−0.08

1.02

α	160	340	204	532	328	0.14	−0.90
a	080		−097		629	0.26	−0.45
b	160		204		328	0.46	−0.24
β	200		301		231	0.70	−0.24
c	068	339	−168	530	698	0.76	−0.08
γ	070		−155		685	0.88	+0.31
δ	109		037		493	1.07	+0.35
ε	155		190		340	1.06	+0.20

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1926phae.proj..9136

H J 418 5 – α Lacertae

α	168	310	225	491	266
a	100		000		491
ℓ	152		189		309
x	212		326		165
c	042		-377		868
γ	035		-456		947
δ	052		-284		775
ε	100	311	000	493	493

~~H K A~~ $1^h 7^m$ $z = 15^\circ$

6 – α Lacertae

1.04

α	095	290	-022	462	484
a	045		-247		809
β	095		-022		484
x	155		190		272
c	018	292	-745	465	1210
γ	015	295	-824	470	1294
δ	025		-602		1072
ε	060		-222		692

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1926phae.proj..9116

H 3418 7 - α Lacerta

α	068	322	-167	508	675
a	025		-602		1110
b	060		-222		730
x	110	320	041	505	464
c	010		-1000		1505
γ	010		-1000		1505
δ	015	318	-824	502	1326
ε	082	318	-495	~~498~~	995

1 - λ Cygni $3^h 15^m$ $Z = 40°$

+0.27

α	060	315	-222	498	720	-0.07	1.31
a	032		-495		993	+0.11	
b	062		-208		706	0.02	
x	108	318	050	502	~~447~~	0.04	
c	018		-745		1247	0.27	
γ	015		-824		1326	0.27	
δ	025		-602		1104	0.26	
ε	032	319	-495	504	999		

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1926phae.proj.--9116

H 3448

2 - f' Cygni $3^h 12^m$ $Z = 35°$

+0.18 1.22

α	110	329	041	577	476	0.33
g	050		-207		818	0.30
b	110		041		476	0.33
x	165		218		299	0.25
c	028	330	-553	578	1071	0.49
γ	020		-699		1217	0.41
δ	030		-523		1041	0.35
ε	048		-319		837	

3 - ν Cygni $3^h 6^m$ $Z = 37$

+0.21 1.25

α	072	305	-143	484	627	0.07
g	035		-456		940	0.16
b	065		-187		671	0.07
x	110		041		443	0.04
c	020		-699		1183	0.35
γ	018		-824		1308	0.29
δ	025		-602		1086	0.28
ε	035		-456		940	

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1926phae.proj..9116

92

X 14890 HD 156623 7.6 A0 7.59

a	442	542	645	734	089	
b	315		498		236	
c	230		362		372	
d	200		301		433	
e	190		279		455	
f	190		279		455	
g	197		294		440	
h	215		332		402	
i	238		377		357	
j	300		477		257	
k	432		636		098	

#6 44(1352) B5 7.89

a	455	535				8.0
b	458	535	661	728	067	8.0
c	400		602		126	7.9
d	375	532	574	726	152	
e	365		562		164	
f	360	530	556	724	168	
g	355		550		174	
h	360		556		168	
i	365		562		162	
j	395		597		127	7.8
k	475	528	677	723	046	7.8

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1926phae.proj..9136

X14890 HD 155634 7.7 F2 8.18

a	~~340~~					
b	340	530	556	724	168	8.0
c	300		477		247	8.1
d	295		439		285	8.1
e	275		439		285	8.1
f	290		462		262	8.1
g	300		477		247	8.2
h	325	535	572	728	216	8.2
i	350		544		184	8.2
j	400		602		126	8.3
k						

#5 7.78 B1

a	450	535	653	728	075	7.9
b	538		529		199	7.9
c	270	532	431	726	295	7.8
d	288	530	377	724	347	
e	330		362		262	
f	335	527	371	722	351	
g	342		384		338	
h	359	525	413	720	307	
i	378	522	444	718	274	
j	330	520	578	716	198	7.7
k	430		634		082	7.7

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1926phae.proj..9116

94

14890 HS 156385 7.5 0a

a	455	520	658	724	066			
b	395		574		150	7.97	8.01	
c	295		470		254	7.87	8.01	
d	255		406		318	7.84	7.91	
e	250		398		326	7.85	7.91	
f	262	525	418	720	302	7.88	7.95	
g	280		447		273	7.91	8.01	
h	298	523	474	718	244	7.92	8.01	
i	328	522	516	718	202	7.99	8.06	
j	380	520	580	716	136	7.94	8.11	
k	440	518	644	714	070	7.74		

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1926phae.proj..9196

X 14942

HD 155494 8.5 Ao 8.58

a					
b	378	440	578	644	066
c	342	438	534	642	108
d	325	437	512	641	129
e	320		505		136
f	320	438	505	638	133
g	322		508		130
h	322	432	508	636	128
i	328	431	516	634	118
j	355		550		084
k	405	425	608	628	020

HD 155684 7.7 F2 8.18

a	360	430	556	634	078	8.0
b	280		447		187	8.0
c	230		362		272	8.1
d	210		322		312	
e	215	432	332	636	304	
f	222		346		290	
g	230		362		274	8.2
h	250	435	398	638	240	
i	269		436		208	
j	210		497		147	8.3
k						

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1926phae.proj..9116

X 14942

HD 156623 7.6 A0 7.59

a	318	420	502	623	121
b	210	420	322		301
c	145		161		462
d	125		097		526
e	115	422	061		562
f	115		061		562
g	115		061		562
h	120		079		544
i	130		114		509
j	165		218		405
k	280		447		176

HD 156385 7.50a

a	375	428	574	631	057	
b	300		477		154	8.13
c	240		380		251	8.17
d	195	430	290	634	344	8.02
e	195		290		844	8.01
f	190		279		255	7.98
g	190		279		355	7.98
h	200		301		333	7.97
i	222		346		288	7.99
j	272	432	435	636	201	8.01
k	335		525		111	7.98

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1926phae.proj..9106

H 3431

Wordavrdata per 3429

20b - 20 Tauri $1^h 05^m$

$z = 23°$

0.00

α	200	270	301	431	130	1.18	0.52
a	138	269	140	430	290	1.22	0.58
b	208		318		112	1.34	0.65
x	240		380		050	1.28	0.50
c	055		-260		690	1.18	0.53
γ	042		-377		807	1.25	0.59
δ	059		-229		659	1.21	0.50
ε	080		-097		527	1.05	0.43

2 - γ Trianguli $HA = 1^h 44^m$ $z = 23°$

α	135	322	130	508	378	0.66
a	060		-222		730	0.64
b	132		121		387	0.69
x	225		352		156	0.78
c	022		-658		1166	0.65
γ	015		-824		1332	0.66
δ	025		-602		1110	0.71
ε	043	324	-367	511	878	0.62

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1926phae.proj..9116

H 3431 17 Tauri b

α	208	209	318	490	172	1.05	0.39
a	127	207	104	487	383	1.06	0.42
b	212		326		161	1.16	0.47
x	260		415		072	1.13	0.35
c	032		-495		982	0.83	0.18
γ	025		-602		1089	0.87	0.21
δ	040		-398		885	0.93	0.22
ε	080		-097		584	0.97	0.25

23 Tauri a

α	132	208	121	489	368	0.68	0.02
a	065		-187		676	0.70	0.06
b	143	205	155	484	329	0.78	0.09
x	220		342		142	0.81	0.03
c	025	203	-602	481	1083	0.73	0.08
γ	018		-745		1226	0.73	0.07
δ	025	201	-602	479	1081	0.73	0.02
ε	040		-398		877	0.62	0.00

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H 3431

19 Tauri a

α	155	205	190	484	294	0.79	0.13
a	075		-125		609	0.77	0.13
β	150		176		308	0.82	0.13
x	215	207	332	487	155	0.80	0.02
c	020	209	-699	490	1189	0.63	-0.02
γ	008		-1097		1587		
δ	020		-699		1189	0.63	-0.08
ε	040		-398		888	0.60	-0.02

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H 3429 3-β Triangles

Means 3-7

α	205	310	312	491	179	153
a	142		152		339	294
ℓ	208		301		190	165
x	250		398		093	093
c	112		049		442	520
γ	075		-125		616	621
δ	069		-161		652	556
ε	098		-009		500	392

1.05

Mean = 1h 13m

z = 18°

4 β Triangles

α	130	311	114	493	379
a	072		-143		636
ℓ	125	312	097	494	397
x	190		279		215
c	050	315	-301	498	799
γ	030		-523		1021
δ	038		-420		918
ε	055		-260		758

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H 3439 δ γ Trianguli

α	080	320	-097	505	602
a	040		-398		903
b	075		-125		630
x	130		114		391
c	022		-658		1163
g	015		-824		1329
δ	021	319	-678	504	1182
ε	024		-468		972

γ Trianguli

α	235	315	371	498	127
a	179	318	253	502	249
b	230		362		140
x	257		410		092
c	080		-097		599
g	075		-125		627
δ	110		041		461
ε	165		218		284

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H 3439 9 δ Persei HA = 1h 07m

Z = 16°

−0.01	α	130	320	114	505	391	0.71
	a	070		−155		660	0.70
	b	110		041		464	0.59
	x	161		218		287	0.55
	c	023		−638		1143	0.32
	g	018		−745		1250	0.41
	δ	021		−678		1183	0.31
	ε	030		−523		1028	0.21

1.04

16 − f Trianguli (low) from focus

α	185	308	267	489	222	1.19
a	130		114		375	1.29
b	185		267		222	1.26
x	220	310	342	491	149	1.16 (03)
c	052		−284		775	
g	049		−210		801	1.14
δ	072	312	−143	499	637	133
ε	115		061		433	1.42

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H 3439 12 - 2 Persei $1^h 37^m$ $z = 22°$

1.08

+0.03

α	130	320	114	505	391	0.71	
a	075		-125		630	0.75	
b	140		146		359	0.84	
x	190		279		226	072	
c	038	318	-42	502	922	(0.56)	defect.
δ	039		-409		911	0.95	
δ	060		-222		724	1.11	
ε	095		-022		524	1.19	
B	150		176		826	1.62	0.52

$0^h 57^m$ 1.08

+0.03 2 - ε Cass. $z = 22°$

α	100	319	000	504	504	0.48	
a	050		-301		805	0.45	
b	090	318	-046	502	548	0.44	
x	170		+230		272	0.59	
c	030	317	-523	501	1021	0.44	
δ	019		-721		1222	0.44	
δ	017		-770		1271	0.19	
ε	022	314	-658	497	1155	0.00	
	177	310	248		249	1.80	1.61

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1926phae.proj..91G

104

H 3440

Hondaidoctr H 3439

1 – γ Trianguli HA = 1h 41m

Z = 22°

α	190	309	279	490	211	1.23	
a	115		061		429	1.15	1.08
b	170		230		260	1.14	
x	222		346		144	1.11	
c	045	310	-347	491	838	0.68	
γ	039		-409		900	0.96	
δ	065		-187		678	1.22	
ε	110		041		450	1.37	

20b – 20 Tauri HA = 0h 28m.

Z = 15°

-0.04

α	168	340	225	582	307	0.91	-0.32	1.04
a	084		-076		608	0.79	0.36	
b	150	342	176	584	358	0.84	0.30	
x	218		338		196	0.83	0.28	
c	032		-495		1029	0.43	0.25	
γ	025		-604		1138	0.58	0.38	
δ	032		-495		1029	0.55	-0.67	
ε	059		-284		878	0.62	-0.35	

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H 3440 20a – 20 Tauri

α	120	309	079	490	411	0.67	−0.56
a	050		-301		791	0.48	0.67
b	108		033		457	0.57	0.57
x	165		218		272	0.59	0.52
c	020		-699		1189	0.29	0.39
f	018	311	-745	493	1238	0.43	0.53
δ	040	313	-398	496	894	0.78	0.44
ε	060	315	-222	498	720	0.80	0.57

19a – 19 Tauri

α	210	320	322	505	183	1.33	+0.10
a	130	[illegible]	114		291	1.24	+0.09
b	188		274		231	1.25	0.11
x	240		280		125	1.25	0.14
c	055		-260		765	0.82	0.14
δ	042		-377		882	0.99	0.03
δ	058	318	-257	502	739	1.09	−0.13
ε	080	319	-097		599	1.03	−0.34

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H 3440

19b – 19 Tauri

α	220	319	342	504	162	1.42	+0.19
a	150		176	1	328	1.41	+0.26
e	208	317	318	501	183	1.40	+0.26
x	245	315	389	498	109	1.36	+0.25
c	065		-187		685	0.98	+0 30
r	050		-301		799	1.14	+0.18
δ	065		-187		685	1.21	+0.01
ε	092		-036		534	1.18	-0 19

23a – 23 Tauri

α	155	312	190	494	304	0.92	-0.31
a	090	318	-046	502	548	0.90	0.25
e	148	322	170	508	338	0.90	0.24
x	210	330	322	518	196	0.85	0.26
c	050	345	-301	538	839	0.68	0.00
r	040	352	-398	546	944	0.88	0.08
δ	055	362	-260	559	819	0.91	
ε	089	370	-051	568	619	1.00	

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H 3440 — 23 Tauri

d	235	429	371	633	262	1.06	−0.17	
a	140	430	146	634	488	1.02	−0.13	
b	215	433	332	636	304	0.99	−0.15	
x	300	439	477	643	166	0.97	−0.14	
c	075	450	−125	653	778	0.80	+0.12	
f	062	455	−208	658	866	1.01	+0.05	
s	080	462	−097	665	762	1.03	−	
e	110	468	041	670	629	0.98		

17a — 17 Tauri

d	110	330	041	578	477	0.54	−0.69
a	050	331	−301	620	821	0.43	−0.72
b	100	335	000	625	625	0.48	−0.66
x	160	335	204		821	0.44	−0.67
c	020	340	−699	632	1231		
f	015	340	−824		1356	0.28	−0.68
s	025		−602		1134	0.39	
e	042		−377		909	0.43	

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H 3946 176 17 Tauri

α	120	348	079	542	463	0.56	-0.67
a	056		-252		794	0.48	67
b	105	350	021	544	523	0.48	66
x	165	351	218	545	827	0.43	68
c	020	358	-699	554	1253	(0.20)	
f	012	360	-921	556	1477		
δ	020	363	-699	560	1259	(0.20)	
ε	040	366	-398	564	962	0.32	

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1926phae.proj..9106

H 3435 4 – γ Trianguli

α	370	430	568	624	078
a	292		465		16.9
β	355		550		084
χ	390		591		043
c	112		049		585
γ	102		009	6	625
δ	170	433	230	636	406
ε	252	433	401		235

Mean A = $0^h 35^m$

$z = 12°$

1.02

δ – γ Trianguli

α	228	425	258	628	270
a	120		079		549
β	220		342		286
χ	290		462		166
c	040		-398		1026
γ	035		-456		1084
δ	063		-201		829
ε	122		086		542

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1926phae.proj..9116

h 3435 6 - β Trianguli

α	125	430	097	634	537
a	040		-398		1032
b	100		000		634
x	180		255		379
c	015		-824		1458
β	010		-1000		1634
δ	020		-699		1333
ε	040		-398		1032

7 - γ Trianguli

α	075	420	-125	623	748
a	020		-699		1322
b	055		-260		883
x	122		086		537
c					
γ					
δ					
ε	019		-721		1344

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1926phae.proj.. 9116

M 3935

1 — λ Cam. $1^h 7\frac{1}{6}^m$

$z = 20°$

1.06

+0.04

α	127	300	104	477	373	0.56	
a	050		-301		778	0.51	
e	112	303	049	481	432	0.53	
x	171		233		248	0.54	
c	020	305	-699	484	1183	0.55	
g	012	308	-921	489	1410	(0.43)	
δ	021		-678		1167	0.42	
ε	035		-456		945	0.37	

$1^h 41^m$

2 - 2 Cam

$z = 21°$

1.07

+0.05

α	320	420	491	623	132	1.16	
a	215		332		291	1.15	
e	300	418	477	621	144	1.16	
x	342		534		087	1.12	
c	070		-155		776	1.13	
g	065		-187		809	1.13	
δ	100		000		621	1.05	
ε	150		176		445	0.90	

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1926phae.proj..9112

H 3485 3 - ζ Cas $1^h 33^m$ $z = 22°$

+0.06

α	315	372	498	571	073	1.52	
a	247		393		178	1.49	
β	320		505		065		> 1.5
χ	348		542		029		> 1.5
c	075	374	-125	573	698	1.27	1.08
δ	070		-155		728	1.28	
δ	130	375	1114	574	460	1.36	
ε	205		-312		262	1.36	

8 - φ Persei $1^h 43^m$ $z = 19°$

+0.04

1.06

α	140	395	255	597	342	0.64
a	070	398	-155	600	755	0.53
β	155		490		410	0.56
χ	250	400	398	602	204	0.63
c	028		-553		1155	0.59
δ	022	402	-658	604	1262	(0.56)
δ	037	406	-432	608	1040	0.53
ε	065	410	-187	613	800	0.49

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1926phae.proj..9113

H 3436 Hond. as 3435 $0^h 54^m$

1.03 1 – γ Trianguli $z = 13°$

α	288	430	377	634	257	0.77
a	110		041		593	0.70
b	200	428	301	631	330	0.68
d	290	427	462	630	170	0.70
c	030	425	-523	628	1151	0.59
g	025		-602		1230	0.59
δ	045	420	-347	623	970	0.60
ε	080		-097		720	0.56

$HA = 0^h 28^m$ $z = 8°$

34 Persei

-0.01 1.02

α	270	428	431	631	200	0.91	+0.14
a	150		176		455	0.87	+0.17
b	233		367		264	0.80	+0.12
d	295	425	470	628	158	0.78	+0.08
c	052		-284		912	0.91	+0.31
g	040	422	-398	625	1023	0.82	+0.23
δ	050	420	-301	623	924	0.64	+0.04
ε	070		-155		778	0.51	-0.06

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H 3436 HRP 1034

α	350	418	544	621	077	1.51	+0.74	-0.03
a	265		423		198	1.41	.71	+0.01
l	335		525		096	1.45	.77	+0.09
x	382		582		039	1.51	.81	+0.15
c	100		000		621	1.43	.84	+0.25
b	078		-108		729	1.28	.69	+0.10
δ	100		000		621	1.06	.46	-0.14
ζ	150		176		445	0.90	.34	-0.29

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H 3482

9 – f Triangles

a	260	311	415	493	078
a	200	312	201	494	193
b	260	315	415	498	083
x	285		455		043
c	110	318	041	502	461
f	080	319	-097	504	601
d	095		-022		526
e	130	320	114	505	391

Mean = 0h30m

z = 12°

4.02

8 – f Triangles

a	167	317	223	501	278
a	089	315	-057	498	549
b	170		230		268
x	240		380		118
c	035	314	-456	497	953
f	022	313	-658	496	1157
d	030	312	-523	494	1017
e	052		-284		778

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H 3482 10 – γ Trianguli

α	100	306	000	486	486
a	040		-398		884
b	098	307	-009	487	496
x	162	309	209	490	281
c	016	310	-796	491	1287
γ	012		+~~000~~		1497
δ	015		-824		1315
ε	038		-~~495~~ 525		1014

11 – γ Trianguli

α	060	295	-222	470	692
a	018		-745		1215
b	058		-237		707
x	112		049		421
c					
δ					
ε	015	300	-824	477	1301

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1926phae.proj..0136

H 3432 $2^h 43^m$

1 - α Lacertae

$z = 29°$

+0.12

α	120	328	079	576	437	0.39	1.14
a	060	325	-222	572	734	0.49	
b	125		097		415	0.46	
x	198		297		213	0.46	
c	032		-495		1077	0.67	
γ	020		-699		1211	0.69	
δ	030		-523		1035	0.73	
ε	060		-222		734	0.85	

$2^h 50^m$

2 α Lacertae

$z = 31°$

+0.15

α	120?	330	079	578	439	0.39	1.17
a	055	332	-200		778	0.44	
b	130		114		404	0.48	
x	200		301		217	0.44	
c	028		-553		1071	0.60	
γ	020		-699		1217	0.66	
δ	030		-523		1041	0.72	
ε	050		-301		819	0.68	

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H 3432 12 ϕ Persei

+0.04

α	110	308	041	489	448	0.37
a	055		-260		749	0.47
b	118		072		417	0.46
x	190		279		210	0.46
c	025		-602		1091	0.57
g	022		-658		1147	0.75
δ	034		-468		957	0.83
ε	050		-301		790	0.74

4 – ν And. 0h38m

z = 11°

0.00

α	unseen					
a	112	317	049	501	452	0.91
b	185		267		234	0.82
x	242		384		117	0.76
c	048	318	-319	502	821	0.90
γ	030		-523		1025	0.90
δ	038	320	-430	505	935	0.87
ε	050		-301		806	0.70

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1926phae.proj..0136

H 3482 $\sigma - \xi$ Cass $1^h 17^m$ $z = 150$

+0.02 1.02

d	162	313	210	496	286	0.72
a	082		-086		582	0.70
b	175		243		253	0.81
x	220		342		154	0.62
c	030		-523		1019	0.66
g	022		-658		1154	0.74
δ	030		-523		1019	0.74
ε	042		-377		873	0.58

12 - ℓ Persei $1^h 50^m$ $z = 20°$

+0.04 1.06

d						
a	080	319	-097	504	601	0.66
b	140		146		358	0.56
x	200		301		203	0.48
c	012		-921		1425	
g	010		-1000		1504	0.29
δ	015		-824		1328	0.31
ε	035		-456		960	0.41

Tracy Lyon

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μ Aql

13 ε Cas. $0^h 52^m$ $Z = 22°$

+0.06

α	160	339	204	530	326	0.62	1.08
a	070		-155		685	0.55	
b	140		146		384	0.57	
x	230		362		168	0.52	
c	028		-553		1083	0.58	
r	017		-770		1300	0.56	
δ	020		-699		1229	0.45	
ε	030		-523		1053	0.25	

14-HKP 985 $1^h 24^m$

$Z = 26°$

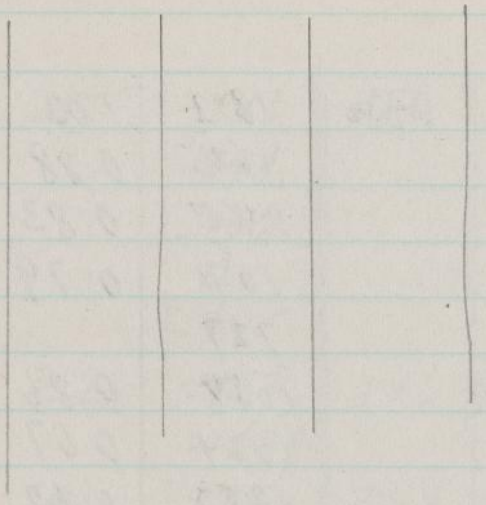
+0.09

α	190	312	279	494	215	0.93	1.11
a	110		041		453	0.91	
b	195		290		204	0.95	
x	250		398		096	0.85	
c	032		-495		989	0.69	
f	022		-658		1152	0.75	
δ	031		-509		1003	0.76	
ε	050		-301		794	0.73	

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1926phae.proj..9126

H 3433 20 Tauri overexposed



0^h49^- $Z = 13°$

[f Trianguli

α	119	320	076	505	429	0.41
a	080		-097		602	0.66
l	150		176		329	0.62
K	209	318	320	502	182	0.53
c	020		-699		1201	0.43
γ	018	316	-745	500	1245	0.63
δ	029		-538		1038	0.72
ε	060		-222		722	0.86

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μ 3433

η Tauri $0^h\ 8^m$ $Z = 17$

+0.03 1.05

d	210	320	322	505	183	1.03	0.62	
a	110		041		464	0.88	22	
b	182		260		245	0.83	21	
x	250		398		107	0.79	26	
c	060		-222		727			
g	028		-553		1058	0.86	+0.23	
s	027		-559		1074	0.67	-0.05	
e	045		-347		852	0.62	-0.24	

η Tauri 1 $0^L\ 13^m$ $Z = 18$

+0.03 1.05

d	210	309	322	490	168	1.02	102	061
a	120		079		411	0.99	094	038
b	180		255		235	0.87	095	033
x	242		384		106	0.79	079	026
c	070		-155		645			
g	035	307	-456	487	943			
s	039		-495		982	0.80	0.73	0.01
e	042		-378		865	0.59	060	-0.21

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H 3427 1 α Lacerta to be rejected

α	072	355	-143	550	693
a	040		-398		948
b	078		-108		658
x	130		114		436
c	018		-745		1295
f	011	352	-959	546	1505
δ	020		-699		1245
ε	040	350	-398	544	942

2 - α Lacerta

α	195	420	290	623	333
a	102		009		614
b	175	425	243		380
x	255	419	398	622	224
c	050	415	-301	618	919
f	040	410	-398	613	1011
δ	050	408	-301	611	912
ε	080	387	-097	588	708

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H 7427 3 - α Lacerte

α	040	418	-398	621	1019
a	015	~~418~~	-824		1445
b	032	~~418~~	-495		1116
x	079	~~418~~	-155		776
c					
r					
δ					
ε	015	~~418~~	-824		1445

8 - ν Andr overexposed!

α					
a					
b					
x					
c					
r					
δ					
ε					

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H 3427 9 α Lacertae

α	168	479	225	680	455	1.20
a	075		-125		805	0.98
β	170	478	230	679	449	1.24
x	268		428		251	1.26
c	030	475	-523	677	1200	0.90
γ	024	472	-620	674	1294	0.97
δ	050		-301		975	1.28
ε	100	470	000	672	672	

10 - β Trianguli

α	150	308	176	489	313	1.51
a	078	308	-108		597	1.53
β	155	305	190		299	
x	200	306	301	486	185	
c	030		-523		1009	1.25
γ	020		-699		1185	
δ	040		-398		884	
ε	080		-097		583	

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H 3434

1 – γ Trianguli $z = 13°$

1.03

α	160	313	204	496	292	0.70	
a	080? –		-097		593	0 68	
b	142	315	152	498	346	0.61	
x	205 –		312		186	0 53	
c	023 –	318	-638	502	1240	0 50	
γ	018 –		-745		1247	0 63	
δ	030		-523		1025	0.73	
ε	055	320	-260	505	765	0 78	

2 – HRP 1034 $1^h 29^-$ $z = 17°$

+0.02

1.05

α	222	312	346	494	148	1.16	0.46
a	140	314	146	497	357	1.10	42
b	210		322		175	1.07	46
x	252		401		096	0.86	33
c	050		-301		798	0.93	43
γ	035		-456		953	1.00	37
δ	045		-347		844	1.00	27
ε	070		-155		652	1.00	22

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H 3484 3 - 34 Persei $1^h 42^m$ $z = 19^\circ$ 1.06

a	165	308	218	489	271	0.77	0.07
a	087		-060		549	0.75	0.07
b	150		176		313	0.68	0.07
x	210		322		167	0.58	0.05
c	026		-585		1044	0.59	0.09
d	018	310	-745	491	1236	0.64	0.01
d	025		-602		1093	0.65	-0.08
e	046	311	-337	493	830	0.66	-0.12

$1^h 43^m$

+0.03 3a - HRP 1034 $z = 20$ 1.06

a	192	300	283	477	194	1.01	0.31
a	107	~~298~~	029		448	0.91	23
b	180		255		222	0.90	29
x	233		367		110	0.77	24
c	039		-409		886	0.82	32
d	030		-523		1000	0.93	30
d	040		-398		875	0.96	25
e	060		-222		699	0.90	12

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H 3484

4 - ψ Persei $1^h 49^m$ $Z = 19^\circ$

1.06

+0.03

α	152	396	182	598	416	0.43	−0.27
a	080		-097		695	0.53	15
b	145		-761		437	0.42	19
x	202		305		293	0.50	3
c	025	397	-602	599	1208	0.43	7
γ	016		-796		1395	0.44	19
δ	030		-523		1122	0.60	13
ε	050	398	-301	600	901	0.52	26

ζ - ξ Persei $1^h 35^m$ $Z = 19^\circ$

1.06

+0.03

α	132	313	121	496	375	0.54	−0.19
a	065		-187		683	0.55	−0.13
b	140		146		350	0.58	−0.03
x	210		322		174	0.56	+0.03
c	022	314	-658	497	1155	0.49	−001
γ	021	315	-678	498	1176	0.72	+0.09
δ	038		-420		918	0.89	+016
ε	060	317	-222	501	723	0.86	+0.08

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H 3484 6 - ε Persei $1^h 40^m$ $z = 18°$ 1.05

+0.02

α	150	305	176	484	308	0.66	−0.04
a	070		-155		639	0.61	−0.07
e	140		146		338	0.60	−0.01
x	210		122		162	0.59	+0.06
c	024	307	-620	487	1107	0.55	+0.05
r	018		-745		1282	0.65	+0.02
δ	030	308	-523	489	1012	0.76	+0.03
ε	050		-301		790	0.74	−0.04

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1926phae.proj..9136

H 3437

1 - γ Trianguli

α	195	297	290	473	183
a	140		146		327
b	195		290		183
x	235		371		102
c	010		-155		628
γ	060		-222		695
δ	082		-086		559
ε	130		114		359

MKA = 1h 18m

z = 18°

1.05

2 - γ Trianguli

α	110	299	041	476	435
a	055		-260		736
b	105	297	021	473	452
x	160		204		269
c	030		-523		998
γ	025	295	-602	470	1072
δ	032	294	-495	468	963
ε	060		-222		690

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H 3437

3 – γ Triangles

α	062	294	-208	468	676
a	032		-495		963
b	058	294	-237		705
x	110	292	041	465	424
c	011		-958		1423
γ	008		-1.097		1562
δ	018	291	-745	464	1209
ε	028		-553		1017

4 – γ Triangles

α				
a				
b				
x				
c				
γ				
δ				
ε				

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1926phae.proj..9136

H 3437

6 - δ Persei

$1^h 18^h$

$Z = 14^\circ$

-0.02

1.03

α	117	300	068	477	409	0.80
a	088		-237		714	0.79
b	100		000		477	0.70
K	141		149		328	0.58
c	019		-721		1198	0.50
γ	015	298	-824	474	1298	0.50
δ	030	297	-523	473	996	
ε	045		-347		820	0.55

7 - ε Persei

$1^h 18$

-0.02

$Z = 14^\circ$

α	129	279	111	446	335	0.98
a	070		-155		601	0.99
b	110	280	041	447	406	0.84
x	150	281	176	449	273	0.74
c	021		-678		1127	0.58
γ	020		-699		1148	0.66
δ	035		-456		905	
ε	050		-301		750	0.66

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H 3438 Heard H 3437 $1^h 48^m$

1 – γ Trianguli

$z = 23$

α	122	293	086	467	381	0.87	
a	070		-155		622	0.95	
b	111		045		422	0.80	
x	160		204		263	0.78	
c	025		-602		1069	0.65	
γ	022	295	-658	470	1128	0.68	
δ	040		-398		868		
ε	072		-143		613	0.87	

$0^h 44^m$

$z = 22°$

η Tauri

α	185	280	267	447	180	1.57	+0.64
a	115	279	061	446	385	1.40	45
b	155		190		256	1.25	45
x	199		299		147	1.24	46
c	058		-237		683	1.13	48
γ	035		-457		902	1.04	+ 36
δ	044	277	-357	443	800		
ε	662	276	-208	441	649	0.83	-0.04

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Handwritten: Standard stars C and g not good

1 - γ Trianguli

α	267	346	426	539	113
a	205	348	312	542	230
b	262	350	418	544	126
x	302		480		066
c	150		176		368
g	140		041		503
δ	093	357	-032	545	577
ε	120		079		466

1.06

1h 20m Z = 20°

1.06

2 - γ Trianguli

α	187	362	272	559	287
a	100		000		559
b	178	365	250	562	312
x	250		198		164
c	040		-398		960
g	030		-523		1085
δ	035		-456		1018
ε	062	367	-208	565	773

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H 344

3 ζ Trian

α	120	368	079	566	487
a	050		-301		867
b	105		021		545
x	180		255		311
c	018	370	-745	568	1313
r	010		-1000		1568
δ	020		-699		1267
ε	035		- 456		1024

4 ζ Trian

α	078	360	-108	556	664
a	028	365	-553	562	1115
b	070		-155		717
x	130		114		478
c					
r					
δ					
ε	025		-602		1164

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1a - γ Cas $2^h 14^m$

$z = 28°$ 1.13

μ yyyy

+0.07

d	190	313	279	496	217	1.00
a	138		140	500	356	1.16
b	212	316	326	500	174	1.26
x	260		415		085	1.25
c	088		-056		556	(1.26)
γ	059		-229		729	(1.21)
δ	062		-208		708	1.27
ε	080	318	-097	502	599	1.14

6 - ψ Persei $0^h 31^m$

$z = 8°$

1.01

-0.05

d	155	369	190	567	377	0.53
a	080		-097		664	0.58
b	143		155		412	0.54
x	218		338		229	0.54
c	027	367	-569	565	1134	(0.53)
γ	021		-678		1243	(0 .)
δ	025		-602		1167	0.51
ε	040		-398		963	0.40
A	150		176		889	1.76 ; 1.32

1.76

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H 3441 7 -0 Persei $0^h 39^m$

$Z = 13°$

-0.03

α	160	349	204	543	339	0.62	1.03	
a	082		-084		627	0.64		
β	150	350	176	544	368	0.63		
χ	222		246		198	0.64		
c								
γ								
δ	045	356	-347	551	898	097		
ε	068		-268		~~719~~	~~0.87~~		
A	150	360	176	556	380	1.80	093	

8 - ζ Persei $0^h 44^m$

$Z = 14°$

-0.03

α	218	370	338	568	230	0.94	1.03
a	140		146		422	1.01	
β	220		342		226	1.05	
χ	275		439		129	0.93	
c							
γ							
δ	090		-046		614	1.37	
ε	142		152		416	(1.69)	
A	192		283		285		

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H 3444 9 ε Persei $1^h 05^m$

$z = 12°$

1.02

−0.04

α	230	358	362	554	192	1.11	
a	140		146		408	1.05	
b	207		316		238	1.00	
x	258		412		142	0.90	
c	032	359	−495	555	1050		
γ	030	360	−523	556	1079		
δ	045		−347		903	0.96	
ε	070		−155		711	0.88	
A	140	360	146		410	1.70	0.82

$z = 23$

16 − 9 Camelop. $0^h 31^m$

1.09

+0.03

α	160	332	204	521	317	0.68	
a	085		−071		592	0.70	
b	170		230		291	0.82	
x	240	333	380	522	142	0.88	
c	042		−377		899		
γ	033	335	−481	525	1006		
δ	040		−398		923	0.94	
ε	070		−155		680	0.95	0.69
A	125		097		428	1.64	0.49

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3441 11 – λ Orionis O ^{4} 5^{n}

z = 32

+0.12

α	180	375	255	574	319	0.68	1.18
a	090		-046		620	0.65	
b	155		190		384	0.59	
x	228		358		216	0.60	
c	032		-495		1069	0	
f	025		-602		1176		
δ	030		-523		1097	0.64	
ε	045		-347		921	0.47	
A	100				574	1.22	0.75

O ^{4} 8^{n}

12 λ Orionis

+0.12

α	150	360	176	556	390	0.50	
a	070		-155		711	0.52	
b	125		097		459	0.45	
x	198		297		259	0.45	
c	028		-553		1109	~~0.56~~	
γ	022		-658		1214		
δ	029		-569		1125	0.59	
ε	038		-420		976	0.38	
A	080		-097		653	1.03	0.65

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H 3444 12 a - φ, Orionis $0^h 8^m$

$z = 33°$

1.19

+0.13

α	302	370	480	568	088	1.55
a	230		362		206	1.55
b	290		462		106	1.56
x	325		572		056	1.53
c	108		033		535	(1.29)
g	085		-071		639	(1.33)
δ	097		-013		581	1.50
ε	127		104		464	1.50
A	205		312		256	

13 γ Trianguli

+0.44

$3^h 47^m$

$z = 47°$ 1.47

α	262	359	418	555	137	1.35
a	180		255		300	130
b	252		401		154	134
x	305		484		071	1.44
c	082		-086		641	(1.24)
g	072	361	-143	558	701	(1.25)
δ	100		000		558	1.54
a	140	363	146	560	414	1.70

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H 3442

2 - γ Trianguli

α	290	370	462	568	106
a	240	372	380	571	191
l	305		484		087
x	332		521		050
c	141		149		422
r	128		107		464
δ	155		190		361
ε	200		304		271

1.04

$1^h 14^m$

$z = 16°$

3 - γ Trianguli

α	218	390	338	591	253
a	130		114		477
l	212		326		265
x	273		436		155
c	060		-222		813
r	052	388	-284	589	873
δ	072		-143		732
ε	180		048		548

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μ Tuc

4 - γ Trian.

α	122	366	090	564	474
a	055		-260		824
b	110		041		523
x	180		255		309
c	018	367	-745	565	1310
γ	016		-796		1361
δ	026		-585		1150
ε	050		-301		866

δ - γ Trian.

α	088	370	-055	568	623
a	033		-481		1049
b	075		-125		693
x	139		143		425
c					
γ					
δ					
ε	032		-495		1063

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H 3992

1 – γ Cass

α	255	372	406	570	164	1.08
a	190		279		291	1.14
β	270		431		129	1.23
χ	320		505		085	1.27
c	147	375	167	574	407	
δ	112		049		525	1.35
ε	110	376	041	575	534	1.08
ε	130		114		461	0.92

6 η Persei

$1^h 14^m$ $z = 14°$

−0.01

1.03

α	082	369	−086	567	653	0.00
a	038		−420		987	0.09
β	105		021		546	0.27
χ	215?		332		235	0.49
c	047		−328		895	0.65
δ	053		−276		843	0.79
ε	080		−097		664	0.84
ε						

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H γγγγ

8 - d Persei $0^h 39^m$ $z = 8°$ 1.01

−0.03

d	200	350	301	544	243	0.76
a	122		086		458	0.77
b	190		279		265	0.77
x	248		294		150	0.76
c	052		−284		828	0.73
r	048		−319		863	0.76
s	058		−237		781	0.68
e	080		−097		641	0.62

$1^h 27^m$ $z = 21°$

9 - o Persei 1.07

+0.03

d	148	360	170	556	386	0.28
a	070		−155		711	0.43
b	139	358	143	554	411	0.49
x	210		322		232	0.50
c	038	356	−420	557	971	0.58
r	032		−495		1046	0.57
s	043	352	−367	546	913	0.53
e	062	350	−208	544	752	0.45

x)

x) emoje γ d Persei hyperon

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α Aurigae 10 - 9 Camelop $0^h 38^m$

$z = 25°$

1.10

+0.06

d	163	370	212	∫68	356	0.∫2
a	080		-097		665	0.49
l	149		173		395	0.∫2
x	226	369	354	∫67	213	0.∫5
c	036		-446		1013	0.∫4
r	025	365	-426	∫62	1018	0.60
s	045		-347		909	0.∫3
c	078		-155		717	0.∫0

$0^h 12^m$

11 - λ Orionis

$z = 32°$

1.18

+0.14

d	160	379	204	∫79	375	0.48
a	075		-125		704	0.44
l	127		104		475	0.38
x	265	380	312	∫80	268	0.39
c	025	381	-602	∫81	1183	0.39
r	020		-699		1280	0.37
s	023		-638		1219	0.28
c	033		-481		1062	

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H 3442 12 - χ Orionis $0^h 19^m$ to h cycle

α	115	360	061	556	495	0.26
a	050	358	-301	554	855	0.25
e	098		-009		563	0.24
x	158	357	199	553	354	0.18
c	027	353	-569	548	1117	0.45
r	020	351	-699	545	1244	0.40
r	025		-602		1147	0.31
c	030		-523		1068	

12a φ, Orionis $0^h 19^m$

α	296	370	471	568	097	1.16
a	220	369	342	567	225	1.34
e	275		439		128	1.27
x	312	365	494	562	068	1.26
c	100		000		562	1.15
r	079		-102		664	1.07
r	092	364	-036	561	597	0.95
c	122		086		475	0.89

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H 3443

Henderson H 3442

O Han $\alpha = 3^h 48$

$\delta = +52^{04}$

$0^h 39^m$ $z = 12^0$

-0.02

1.02

α	070	369	-155	567	722	0.04
a	022		-658		1225	
l	080		-097		664	0.08
x	179		253		314	0.28
c	030		-523		1090	0.47
r	030	367	-523	565	1088	0.53
s	052		-284		849	0.59
ε	082		-086		651	0.59

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148

H 3446

+0.08

13 – S Monoc.

$0^h 27^m$

33° 1.19

V

α	472	530	674	724	050	1.58
a	400		602		122	1.55
ℓ	460		663		061	1.59
x	485		686		038	1.53
c	190	528	279	723	441	1.43
γ	151	525	179	720	541	1.39
δ	175		243		477	1.40
ε	212		326		394	1.32

2 – γ Trianguli

V

α	290	552	462	742	280
a	165		218		524
ℓ	270		431		311
x	390		591		151
c	090		-046		788
γ	076		-119		861
δ	082		-084		826
ε	125		097		645

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3 – γ Trianguli

α	232	530	366	724	358 ✓
a	140		146		578
b	218	525	339	720	381
x	320		491		229
c	075		-125		845
d	055		-260		980
ε	065		- 187		907
ζ	095		- 022		742

MHA 2h 05

1 – γ Trianguli z = 26°

1.11

α	450	530	653	724 (62 / 19)	071 ✓
a	360		556		168
b	435		638		086
x	480		681		043
c	205		312		412
d	185		267		457
ε	200		301		423
ζ	260		415		309

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μ 3446

−0.06

7 − ξ Persei $1^h 23$ 17°

1.05

α	300	582	477	726	249	0.83
a	180		255		471	0.87
e	280		447		279	0.86
x	390	535	591	728	137	0.82
c	120	588	079	731	652	0.99
γ	100		000		731	0.98
δ	115	540	061		670	1.01
ε	~~140~~ 140		~~146~~ 146		~~585~~ 585	0.91

8 ξ Persei $1^h 30^m$ 19°

−0.05

1.06

α	320	514	505	711	206	0.96
a	200		301		410	0.98
e	330	573	579	710	189	1.15
x	420		623		087	1.09
c	150	572	176	709	533	1.24
γ	128		107		602	1.22
δ	142	510	152	708	556	1.23
ε	165		218		490	1.14

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H 3446 4 – β Trianguli

					V
α	130	568	114	754	640
a	050	570	-301	756	1057
ℓ	115		061		895
x	220		342		1414
c	029	572	-538	757	1295
γ	025		-602		1379
δ	035		-456		1213
ε	065		-187		944

9 Bz 711

α					
a					
ℓ					
x					
c					
γ					
δ					
ε					

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1926phae.proj..9116

H 3446

-0.05

10 - ε Aurigae 1h 29m z=20° 1.06

α	127	520	104	716	614	0.03
a	060		-222		938	0.12
e	185		267		449	0.43
x	315		498		218	0.51
c	095		-022		738	0.85
γ	100		000		716	1.01
δ	140		146		570	1.20
ε	190		279		437	1.25

9 Br 711 1h 08m z. 37° 1.25

+0.14

α	330	530	578	724	206	0.96
a	225		352		372	1.07
β	362		559		165	1.24
x	460		663		061	1.30
c	178		250		474	1.37
γ	175		243		481	1.46
τ	248		394		330	
ε	300		477		247	

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1926phae.proj..9153

H 8447 γ Piscium $2^h 21$

1.17 $z = 31°$

α	300	520	477	716	239	0.86	
a	178		250		466	0.87	
l	275		439		277	0.86	
x	368		566		150	0.75	
c	097		-013		729	0.86	
r	078		-108		824	0.80	
δ	100		000		716	0.93	
ε	145		161		555	0.99	

$1^h 56^m$

-0.09 O Ita $3^h 48^h$ $+52° 2'$ $z = 220$ 1.04

α	172	542	236	734	498	0.22	-0.64
a	080		-097		831	0.25	-0.62
b	210		322		412	0.51	-0.35
x	352		546		188	0.60	-0.15
c	100		000		734	0.86	0.0
r	092		-036		770	0.91	+0.11
δ	130		114		620	1.10	+0.17
ε	215		332		402	1.30	+0.31

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H 3444 1 - γ Trianguli $3^h 29^m$ $+34$

α	318	422	502	625	123
a	213	424	328	627	999
e	301		479		748
x	350		544		083
c	110		041		586
γ	100	425	000	628	628
δ	145		161		467
ε	200		301		327

1.06

Mer Alt $1^h 18^m$ $z = 19^\circ$

2 - γ Trianguli

α	170	408	230	611	381
a	089		-057		662
b	175	410	243	613	370
x	250		198		215
e	042		-377		990
γ	085		-456		1069
δ	055	412	-260	615	875
c	090		-046		661

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H 8404 3 – β Trianguli

α	120		079	636	557	
a	050	432	-301	636	937	
b	100		000		636	
x	178		250		386	
c	030		-523		1159	
r	020		-699		1335	
δ	025		-602		1238	
ε	042		-377		1013	

4 17

0.00 6 η Persei $1^h 40^m$ z=19.

α	092	422	-036	625	661	0.19
a	042		-377		1002	0.24
b	135		130		495	0.50
x	255	420	406	623	217	0.75
c	062		-208		831	1.07
δ	062		-208		831	1.16
δ	100		000		623	1.16
ε	132		121		502	

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1926phae.proj..9156

156

μ Geminorum β Canis Majoris ν 28 h ∞

HA 033 z = 4°

−0.06

α	100	418	000	621	621	0.22	1.00
a	042		−377		998	0.24	
b	140		146		475	0.54	
x	282		450		171	0.91	
c	085		−071		692	1.32	
g	082		−086		708	1.37	

γ Tauri

α	070	420	−155	623	778
a	027		−569		1192
b					

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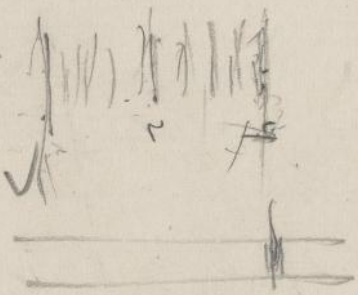
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11h 6

977

97558 ~~B5 7.1~~ ~~-1 3115~~ b

— 60 .2662 b



11h

Hδ b 97557 √ A_2 8.6 ~~11.~~ 3054

-59 a 96654 √ B9 8.6 11. 3054

-60 e 96970 √ A0 8.3 2561

-59 d 97166 B2 7-9 3102

-60 e 96829 B8 7-9 2546

clec 9752

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11^h $-50°$ $(11^h - 57)$

17^h $+15°$

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1926phae.proj..911G

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