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IIDS STANDARD STAR MANUAL



REFERENCE

QB6
.S88
1977

KITT PEAK NATIONAL OBSERVATORY
MEMORANDUM

TO IIDS Users Date December 15, 1979
FROM K. M. Strom *KMS* SUBJECT Standard Stars for Intensified Image
Dissector Scanner Observations

The attached booklet presents the necessary information for all the standards incorporated into our interactive IIDS data reduction program. They are ordered by right ascension, but an alphabetical list is also given.

The finding charts are all from the blue POSS plates. The scale is given by the mm ruler at the top (N) of the chart. The POSS plate scale is 67"/mm. East is to the left.

It should be noted that although the positions given are quoted as 1950, the proper motion difference between the plate epoch and 1950 has not been included. The proper motions, when known, have been listed as an aid to locating the rapidly moving objects.

While the spectral types are given, and the magnitude at $\lambda 5556$, a graph of the spectral energy distribution is also included for your information.

I hope that all of the identifications, particularly for double-star components, are correct, but I certainly do not exclude the possibility of error.

References for Spectral Energy Distributions

Oke, J. B. 1974, Ap. J. Suppl., 27, 21.

Stone, R. P. S. 1977, Ap. J., Dec. 15.



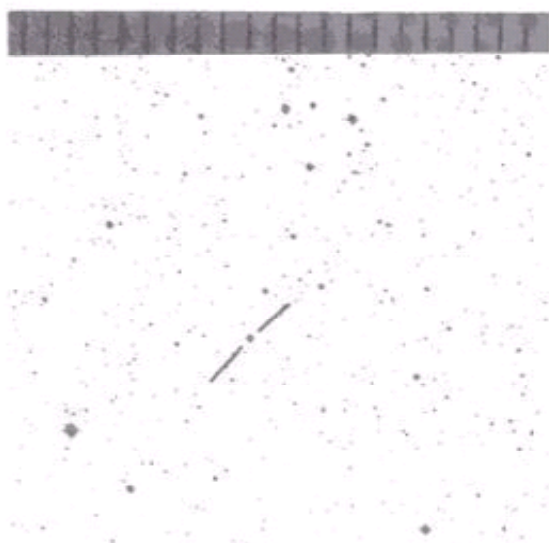
*QB6
.S88
1977*

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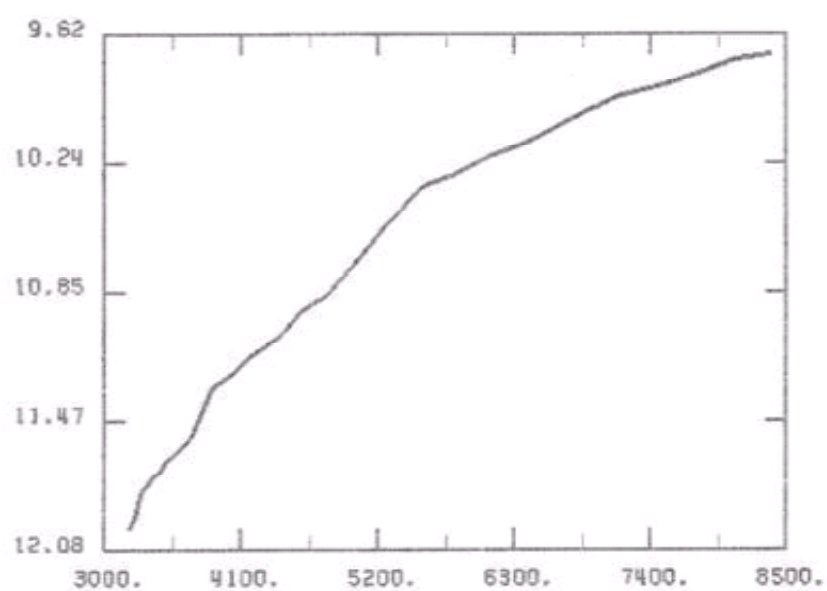
Hiltner 102

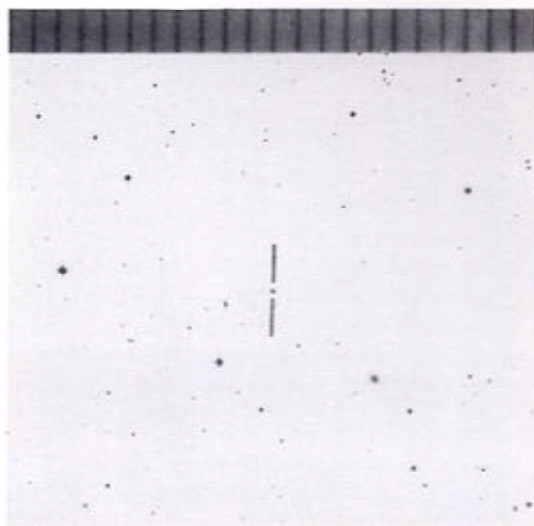
$$\alpha(1950) = 01^{\text{h}}05^{\text{m}}53^{\text{s}}.8$$

$$\delta(1950) = 62^{\circ}31'32''$$

BO III

$$m_{5556} = 10.35$$





L 870-2 = EG 11

$$\alpha(1950) = 01^{\text{h}}35^{\text{m}}26^{\text{s}}.3$$

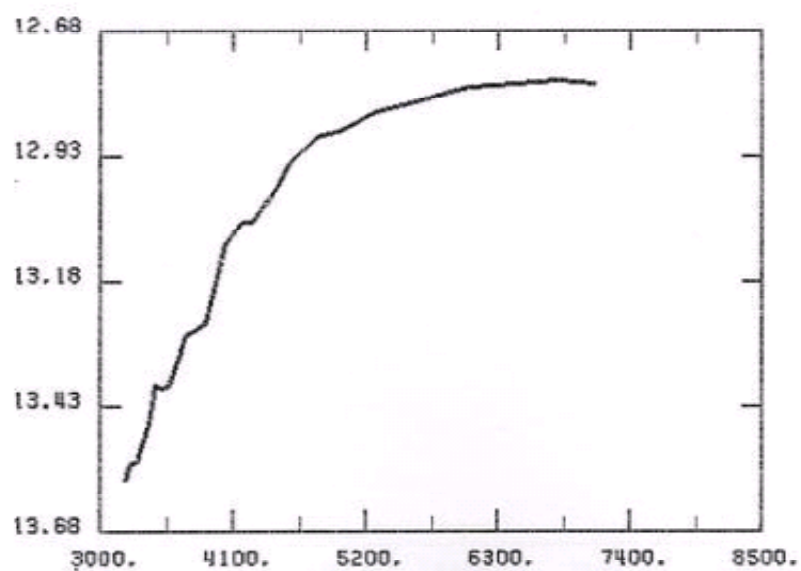
$$\delta(1950) = -05^{\circ}14'43''$$

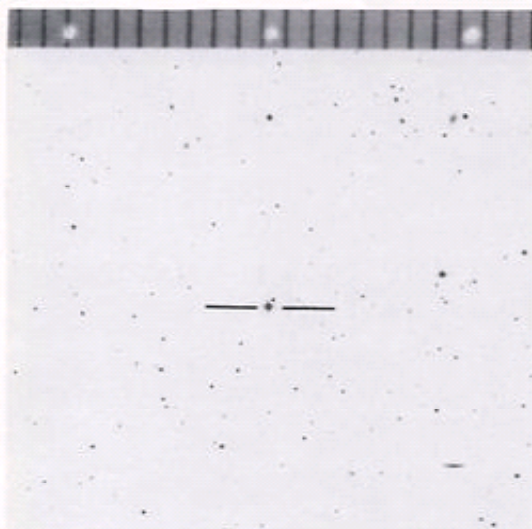
$$\mu_{\alpha} \cos \delta = +0''.57$$

$$\mu_{\delta} = -0''.34$$

DA

$$m_{5556} = 12.82$$





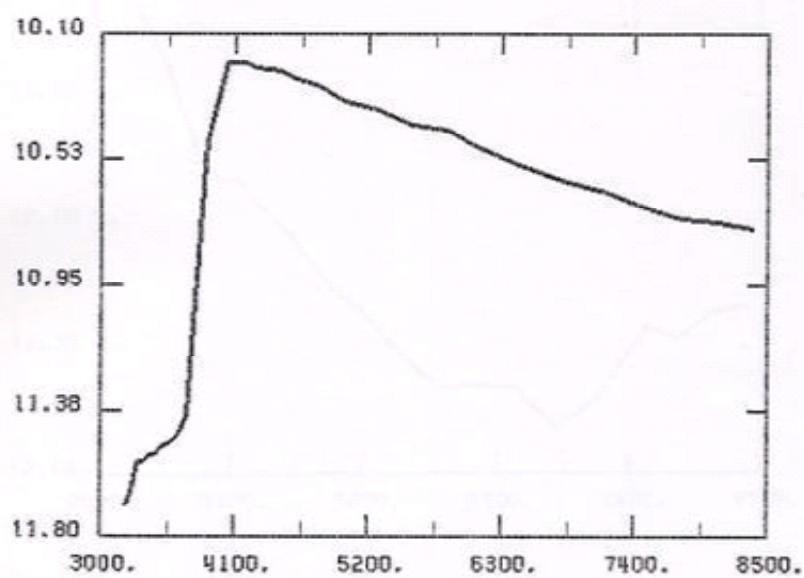
Feige 15

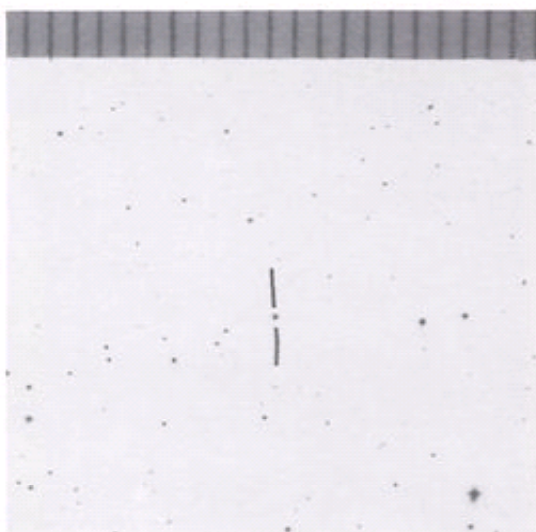
$$\alpha(1950) = 01^{\text{h}}46^{\text{m}}28^{\text{s}}.5$$

$$\delta(1950) = 13^{\circ}18'17''$$

Al V

$$m_{5556} = 10.41$$





Feige 24 = EG 20

$$\alpha(1950) = 02^{\text{h}}32^{\text{m}}30^{\text{s}}.9$$

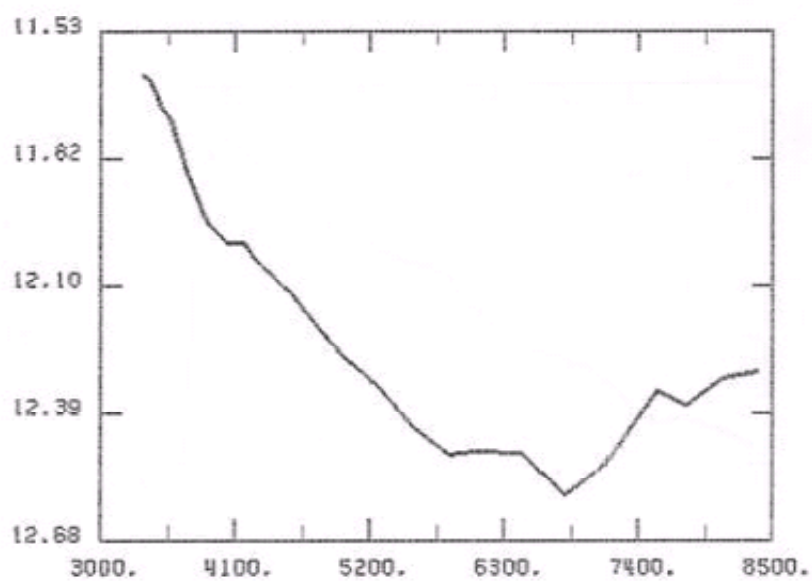
$$\delta(1950) = 03^{\circ}30'51''$$

$$\mu_{\alpha} \cos \delta = +0''.083$$

$$\mu_{\delta} = +0''.010$$

DAwk e + M1-2 V

$$m_{5556} = 12.42$$





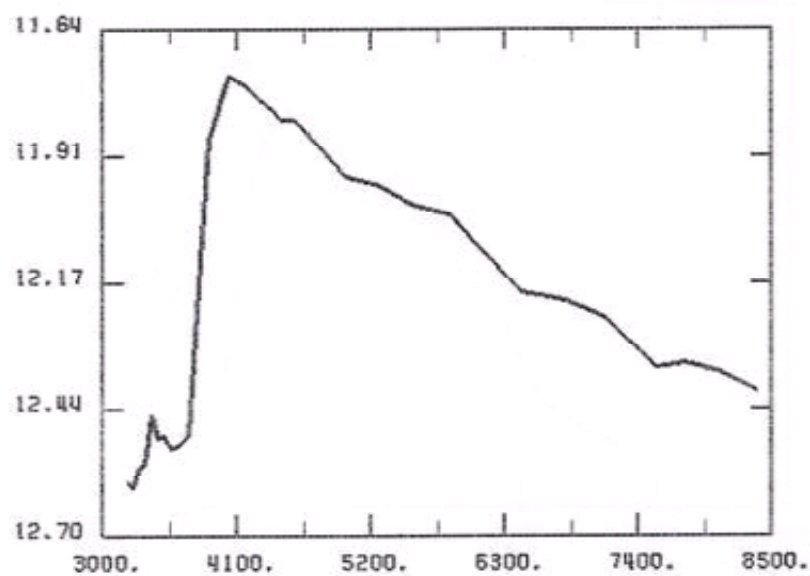
Feige 25

$$\alpha(1950) = 02^{\text{h}}36^{\text{m}}00^{\text{s}}.0$$

$$\delta(1950) = 05^{\circ}15'16''$$

B6 V

$$m_{5556} = 12.01$$





HZ 4 = EG 26

$$\alpha(1950) = 03^{\text{h}}52^{\text{m}}38^{\text{s}}.0$$

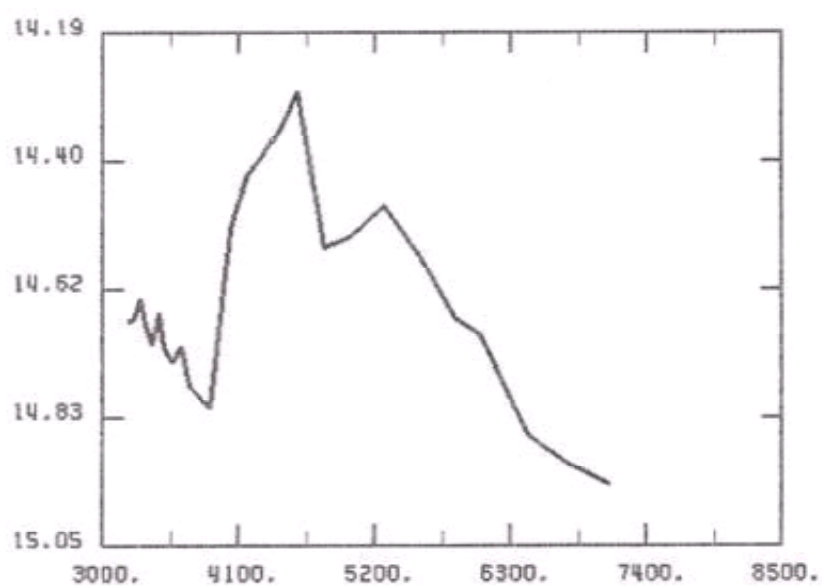
$$\delta(1950) = 09^{\circ}38'35''$$

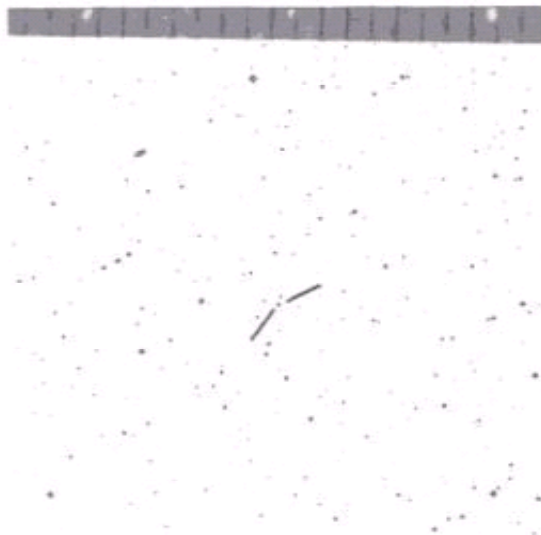
$$\mu_{\alpha} \cos \delta = +0''.152$$

$$\mu_{\delta} = -0''.008$$

DA

$$m_{5556} = 14.57$$





LB 1240 = EG 28 = G 8-8

$\alpha(1950) = 04^{\text{h}}01^{\text{m}}32^{\text{s}}.6$

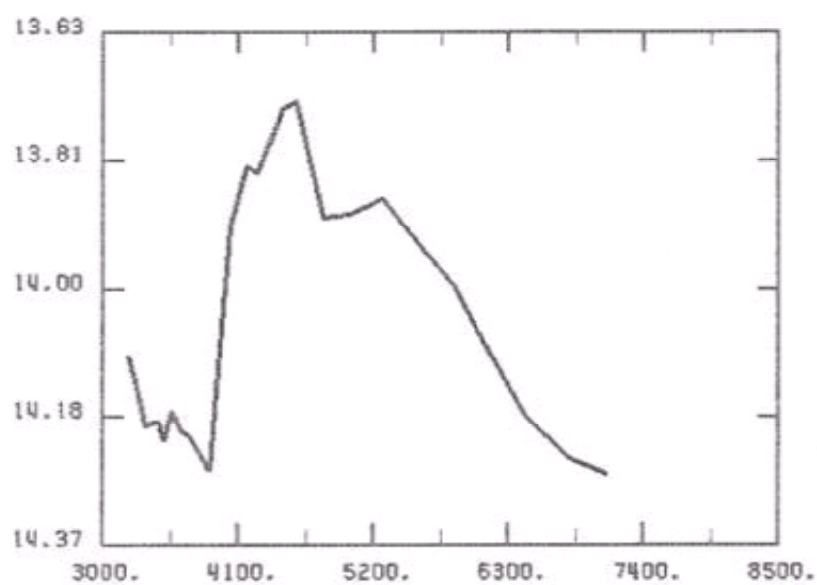
$\delta(1950) = 25^{\circ}00'54''$

$\mu_{\alpha} \cos \delta = +0''.13$

$\mu_{\delta} = -0''.21$

DA

$m_{5556} = 13.94$





LB 227 = EG 29 =
LP 414-101 = GH 7-112

$\alpha(1950) = 04^{\text{h}}06^{\text{m}}36.7^{\text{s}}$

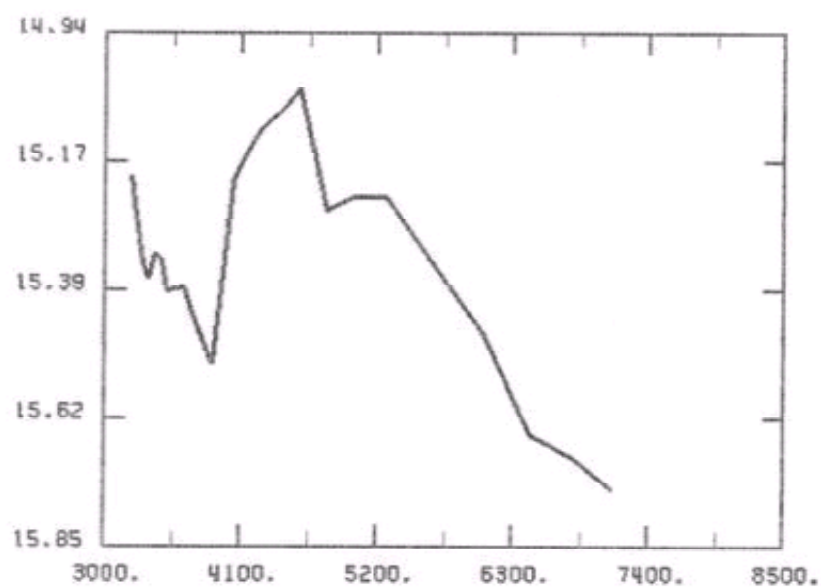
$\delta(1950) = 17^{\circ}00'05''$

$\mu_{\alpha} \cos \delta = +0''.116$

$\mu_{\delta} = -0''.023$

DA

$m_{5556} = 15.32$





HZ 2 = EG 31

$$\alpha(1950) = 04^{\text{h}}09^{\text{m}}57^{\text{s}}.2$$

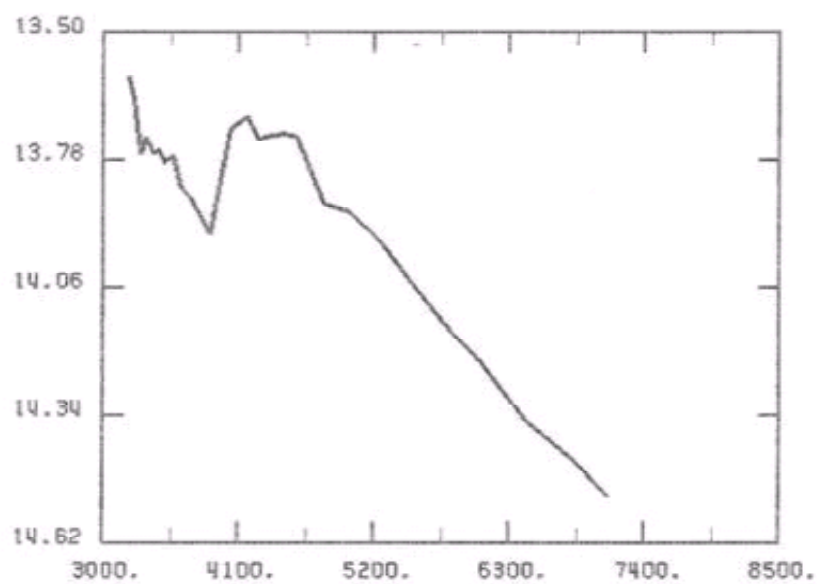
$$\delta(1950) = 11^{\circ}44'15''$$

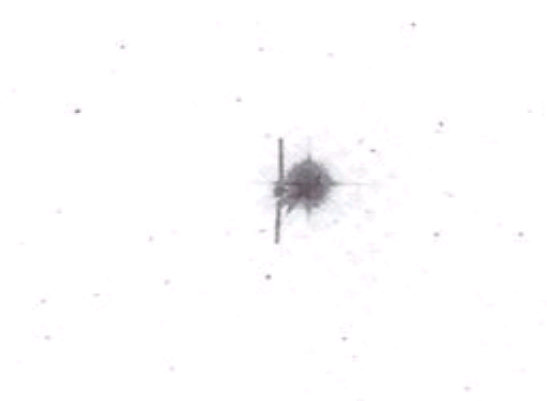
$$\mu_{\alpha} \cos \delta = +0''.051$$

$$\mu_{\delta} = -0''.086$$

DA

$$m_{5556} = 14.07$$





40 Eri B = EG 33 =
SAO 131065 = BD -7° 781

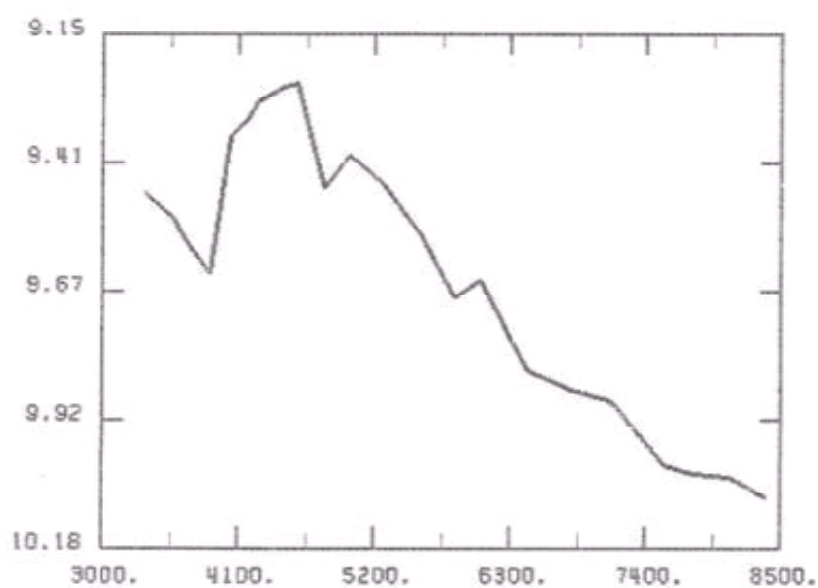
$\alpha(1950) = 04^{\text{h}}13^{\text{m}}03^{\text{s}}.7$
 $\delta(1950) = -07^{\circ}44'09''$

$\mu_{\alpha} \cos \delta = +2''.229$
 $\mu_{\delta} = +3''.420$

DA

Companion to 4.^m5 star,
~1^m separation

$m_{5556} = 9.55$





HZ 7 = EG 39

$\alpha(1950) = 04^{\text{h}}30^{\text{m}}53^{\text{s}}.1$

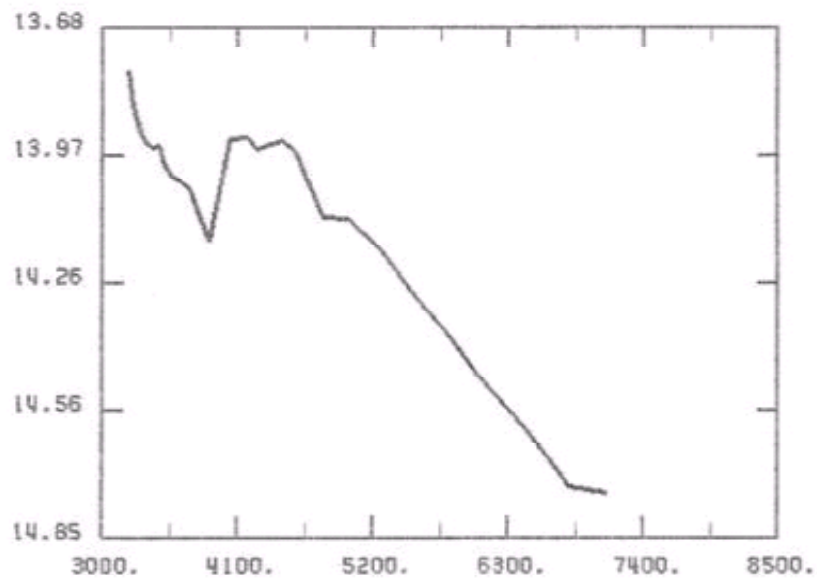
$\delta(1950) = 12^{\circ}37'12''$

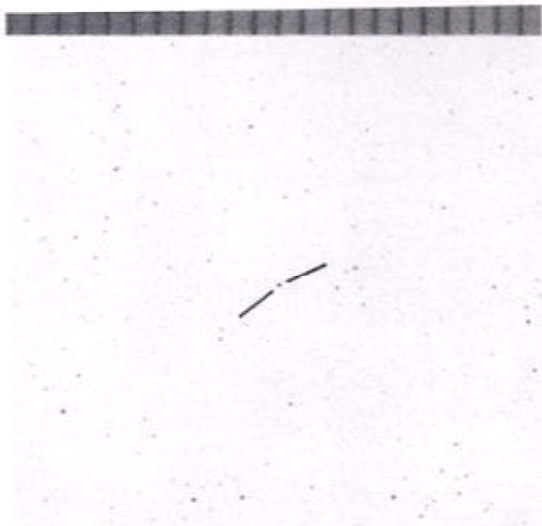
$\mu_{\alpha} \cos \delta = +0''.089$

$\mu_{\delta} = +0''.001$

DA

$m_{5556} = 14.30$





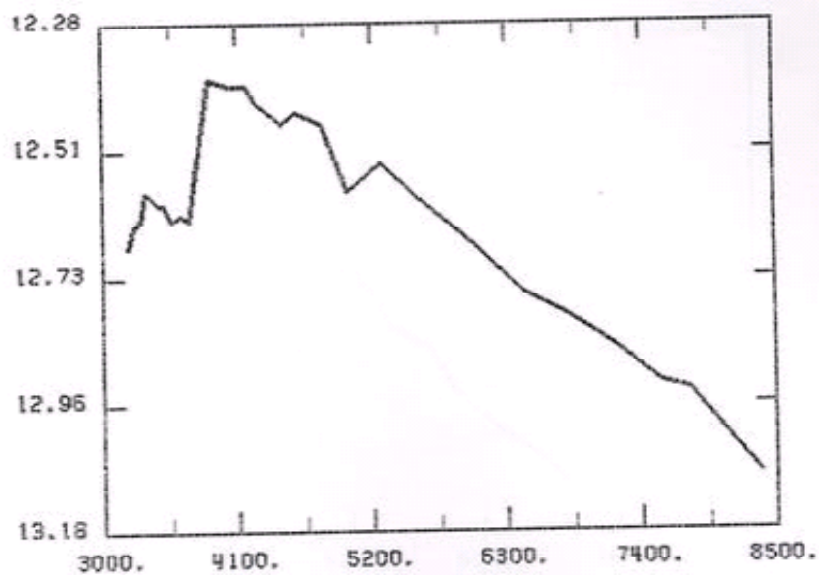
HZ 15

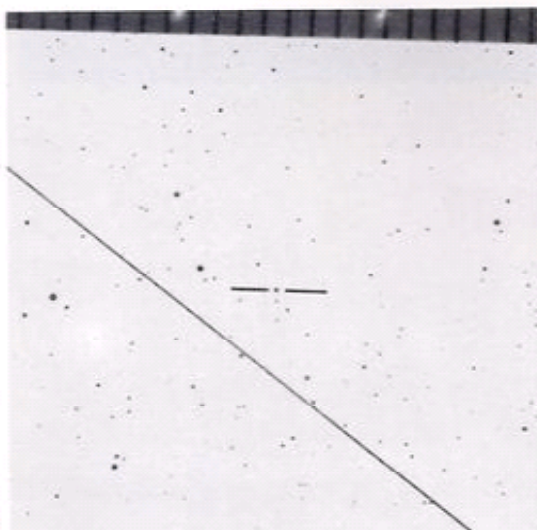
$$\alpha(1950) = 04^{\text{h}}37^{\text{m}}56^{\text{s}}.0$$

$$\delta(1950) = 08^{\circ}35'00''$$

B5

$$m_{5556} = 12.59$$





HZ 14 = EG 42

$$\alpha(1950) = 04^{\text{h}}38^{\text{m}}15^{\text{s}}.6$$

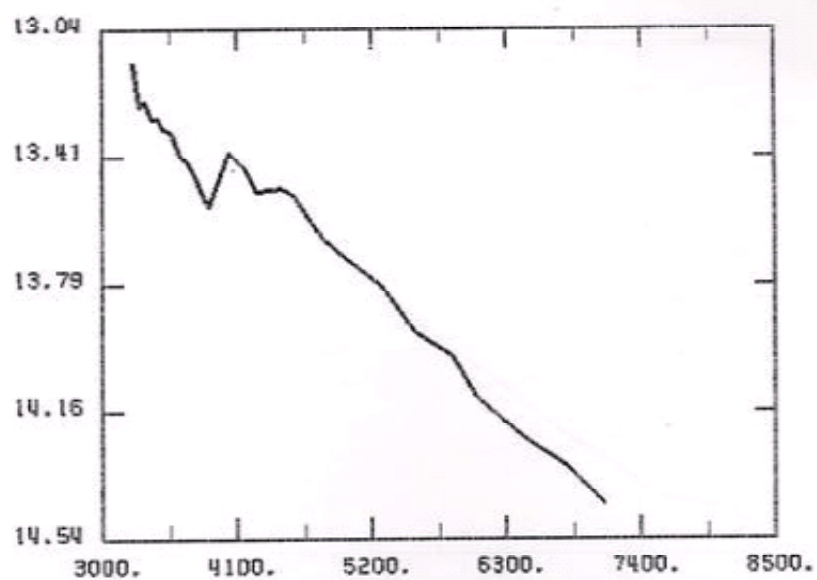
$$\delta(1950) = 10^{\circ}53'57''$$

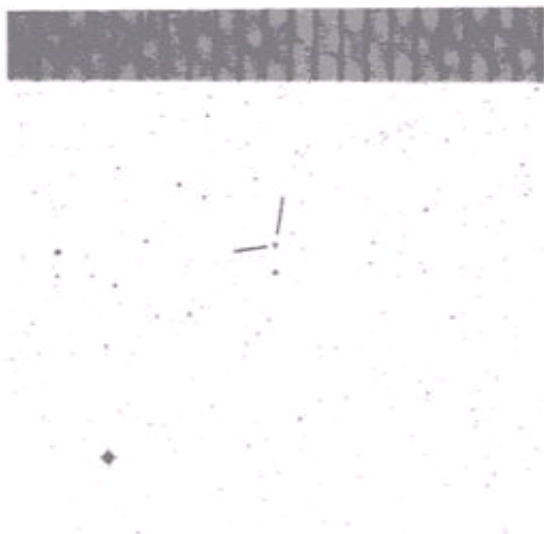
$$\mu_{\alpha} \cos \delta = +0''.085$$

$$\mu_{\delta} = +0''.010$$

DA

$$m_{5556} = 13.94$$





G 191B2B = EG 247

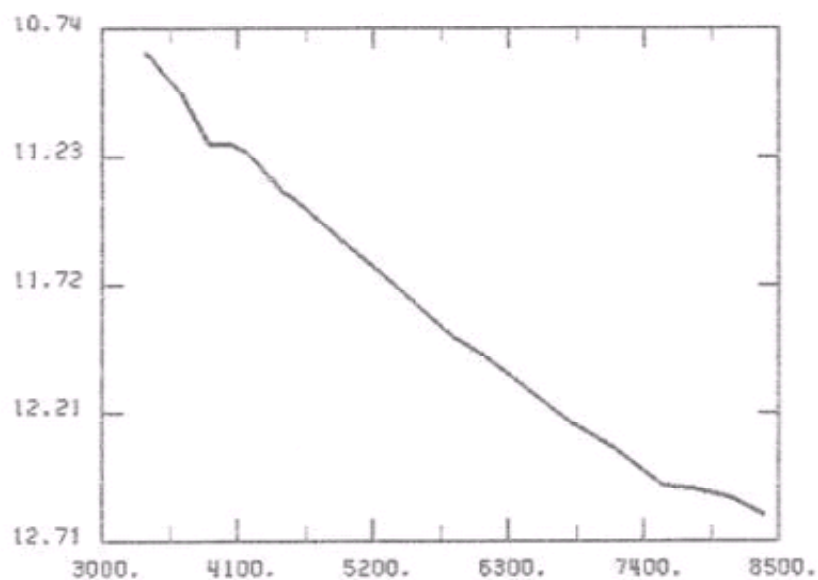
$\alpha(1950) = 05^{\text{h}}01^{\text{m}}31^{\text{s}}.5$

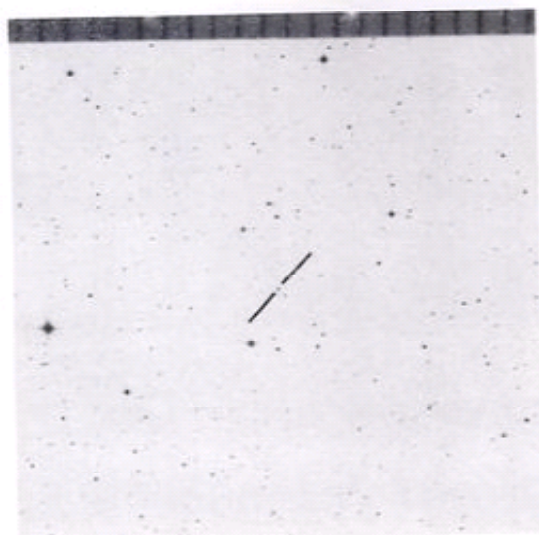
$\delta(1950) = 52^{\circ}45'52''$

$\mu = 0''.10$

DAwk

$m_{5556} = 11.81$





G 99-37 = EG 248

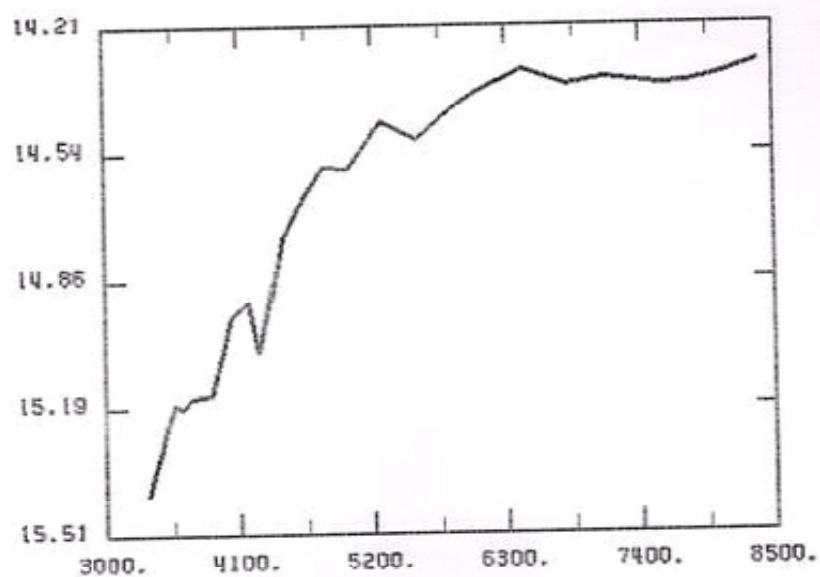
$\alpha(1950) = 05^{\text{h}}48^{\text{m}}45^{\text{s}}.6$

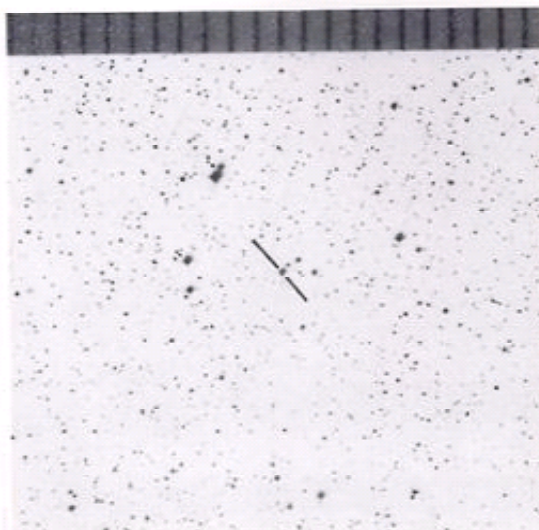
$\delta(1950) = -00^{\circ}11'16''$

$\mu = 0''.27$ at 21°

DGP(CH)

$m_{5556} = 14.51$





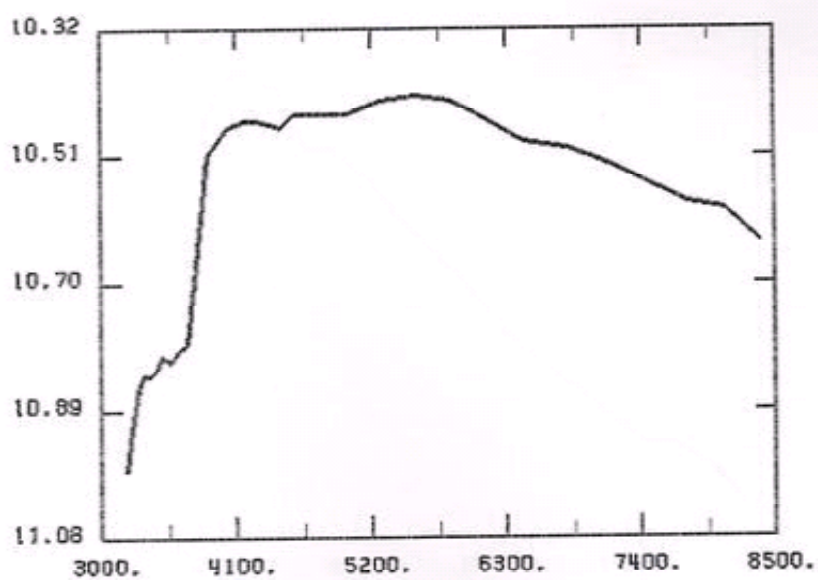
Hiltner 600

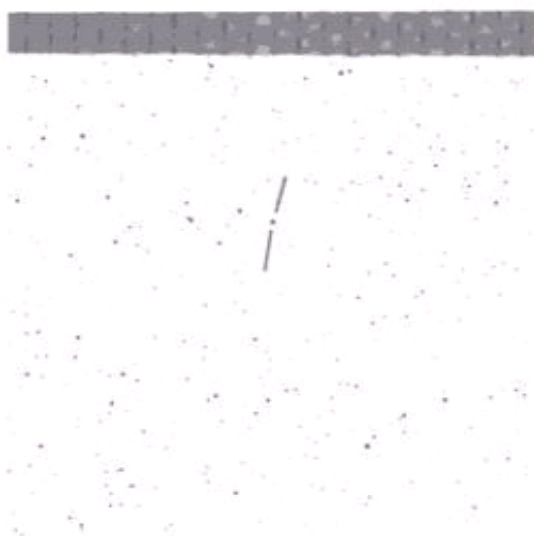
$$\alpha(1950) = 06^{\text{h}}42^{\text{m}}37.2^{\text{s}}$$

$$\delta(1950) = 02^{\circ}11'25''$$

B1 V

$$m_{5556} = 10.42$$





He 3 = EG 50

$$\alpha(1950) = 06^{\text{h}}44^{\text{m}}14.^{\text{s}}8$$

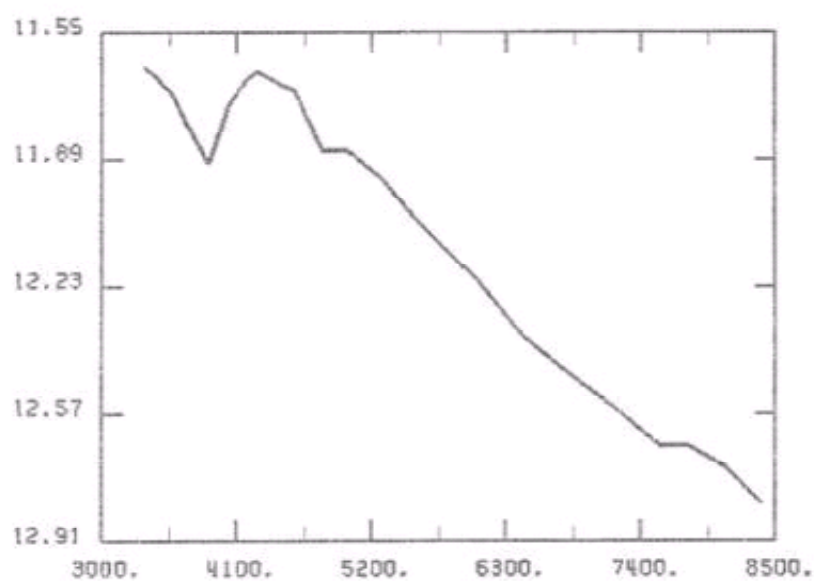
$$\delta(1950) = 37^{\circ}34'59''$$

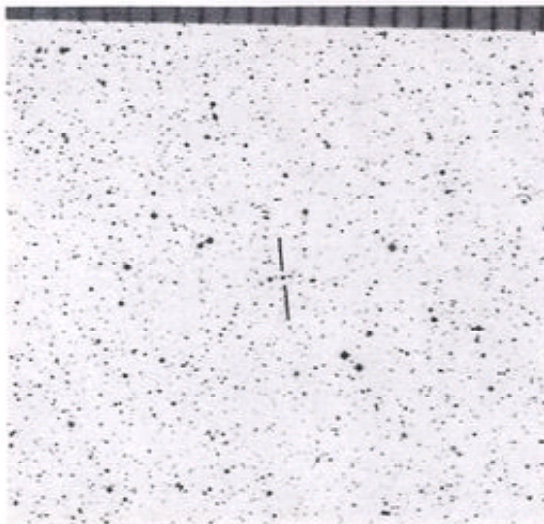
$$\mu_{\alpha} \cos \delta = -0''.18$$

$$\mu_{\delta} = -0''.93$$

DA

$$m_{5556} = 12.05$$





L 745-46A = EG 54

$$\alpha(1950) = 07^{\text{h}}38^{\text{m}}02^{\text{s}}.2$$

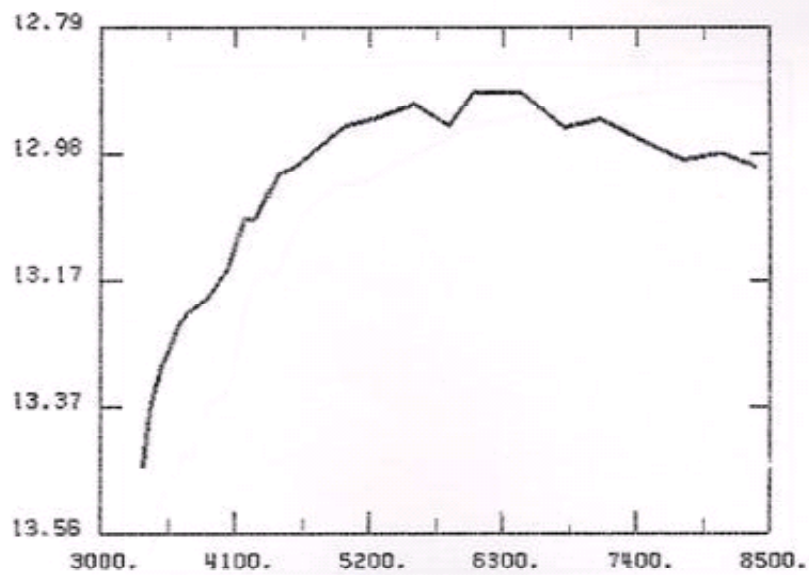
$$\delta(1950) = -17^{\circ}17'24''$$

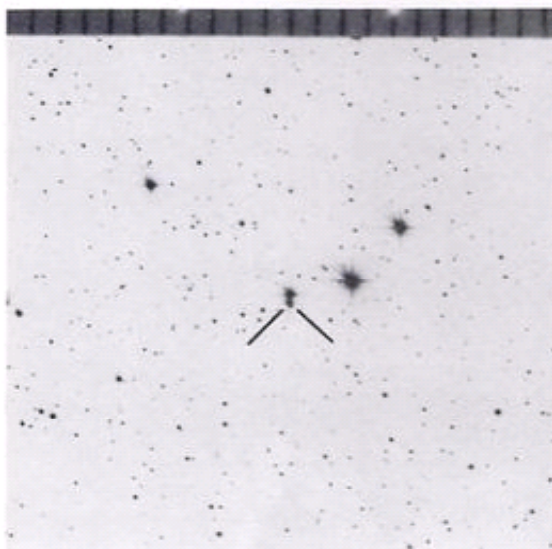
$$\mu_{\alpha} \cos \delta = +1''.136$$

$$\mu_{\delta} = -0''.520$$

DF

$$m_{5556} = 12.91$$





BD +8° 2015

$$\alpha(1950) = 08^{\text{h}}13^{\text{m}}01^{\text{s}}.2$$

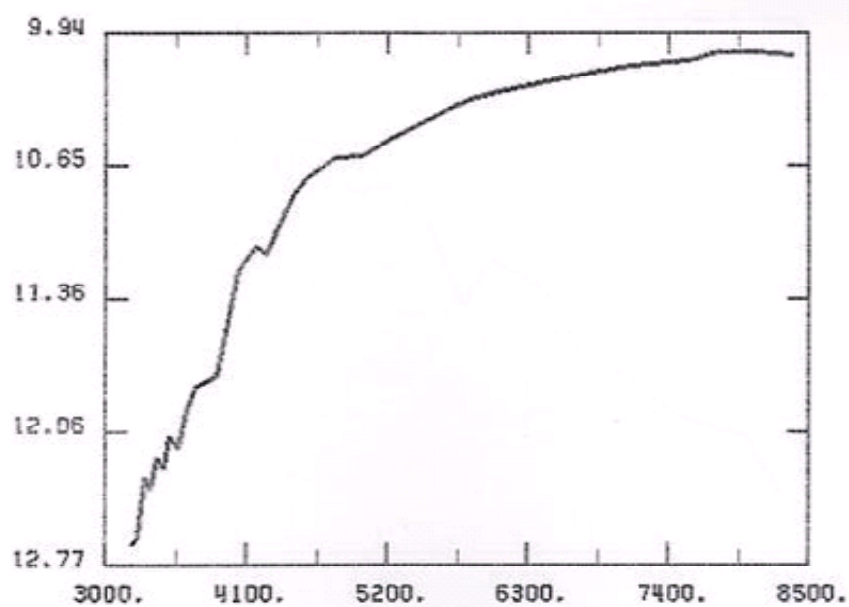
$$\delta(1950) = 07^{\circ}46'28''$$

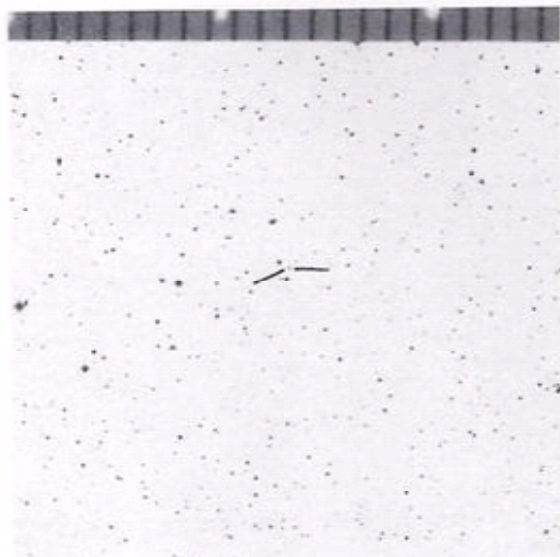
$$\mu_{\alpha} \cos \delta = -0''.201$$

$$\mu_{\delta} = -0''.176$$

G2: V

$$m_{5556} = 10.39$$





LDS 235B = EG 63

$$\alpha(1950) = 08^{\text{h}}45^{\text{m}}15^{\text{s}}.2$$

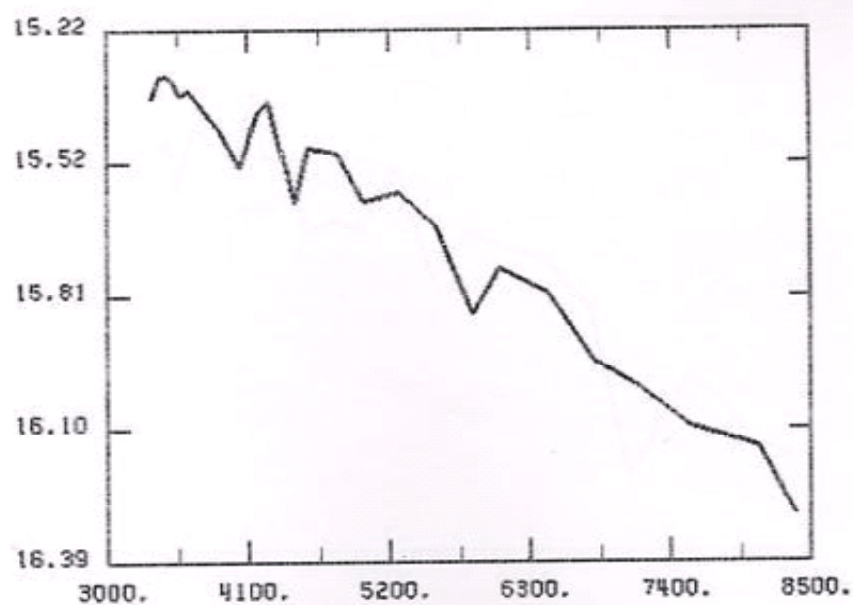
$$\delta(1950) = -18^{\circ}48'31''$$

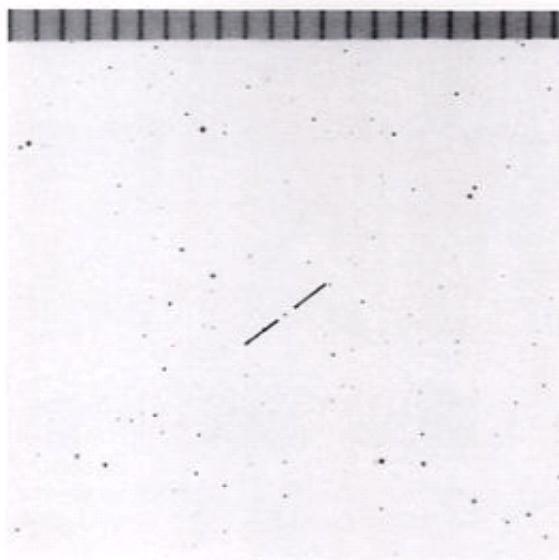
$$\mu_{\alpha} \cos \delta = -0''.12$$

$$\mu_{\delta} = -0''.05$$

DB

$$m_{5556} = 15.66$$





G 47-18 = EG 182

$$\alpha(1950) = 08^{\text{h}}56^{\text{m}}11^{\text{s}}.1$$

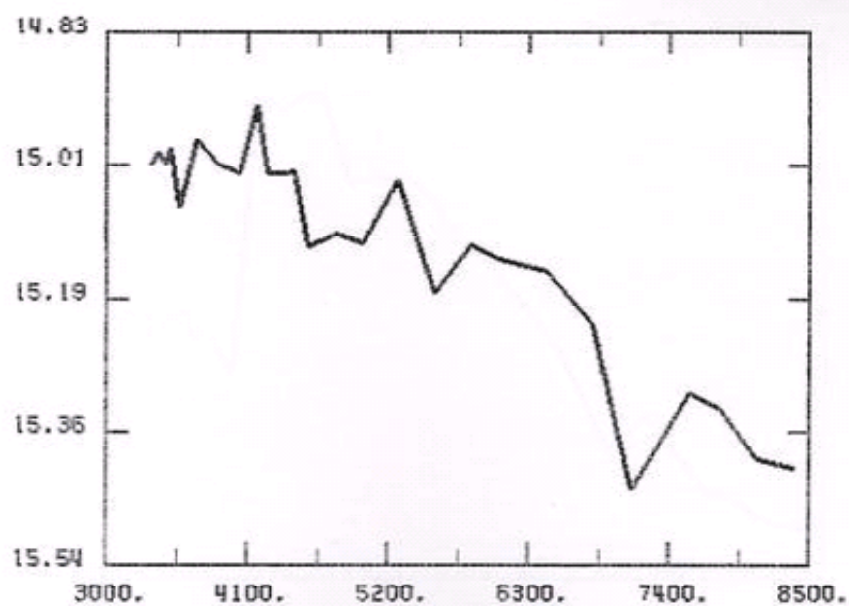
$$\delta(1950) = 33^{\circ}08'54''$$

$$\mu_{\alpha} \cos \delta = -0''.40$$

$$\mu_{\delta} = 0''.00$$

$\lambda 4650$

$$m_{5556} = 15.18$$





SA 29-130 = EG 67

$$\alpha(1950) = 09^{\text{h}}43^{\text{m}}29^{\text{s}}.4$$

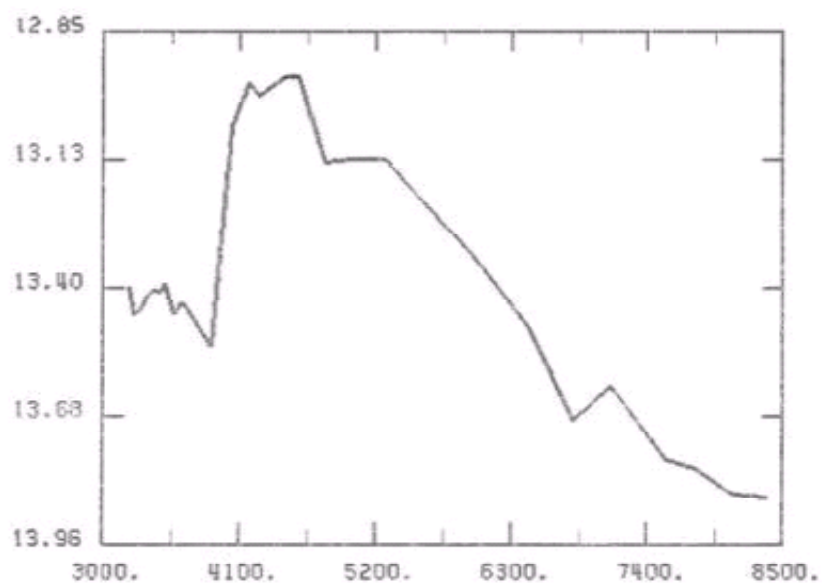
$$\delta(1950) = 44^{\circ}08'33''$$

$$\mu_{\alpha} \cos \delta = 0''.00$$

$$\mu_{\delta} = +0''.29$$

DA

$$m_{5556} = 13.21$$





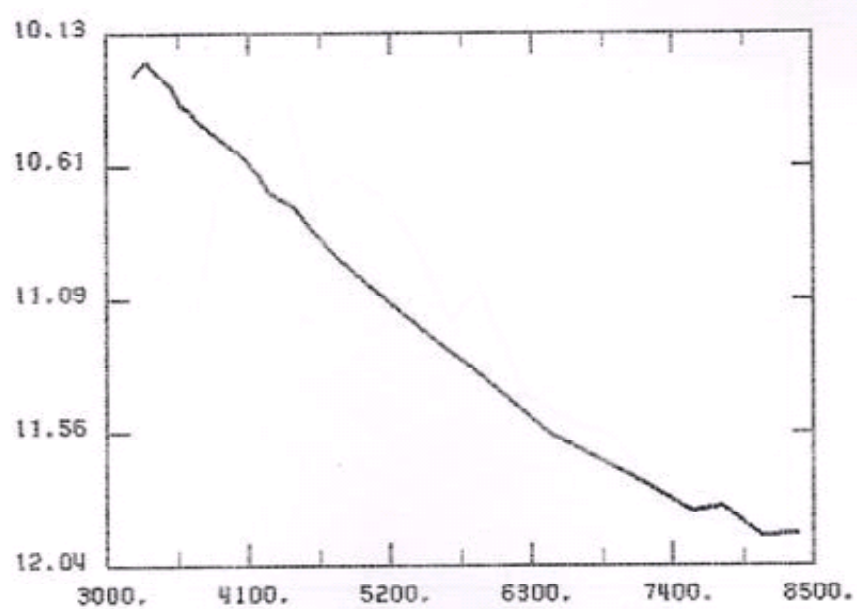
Feige 34 = EG 71

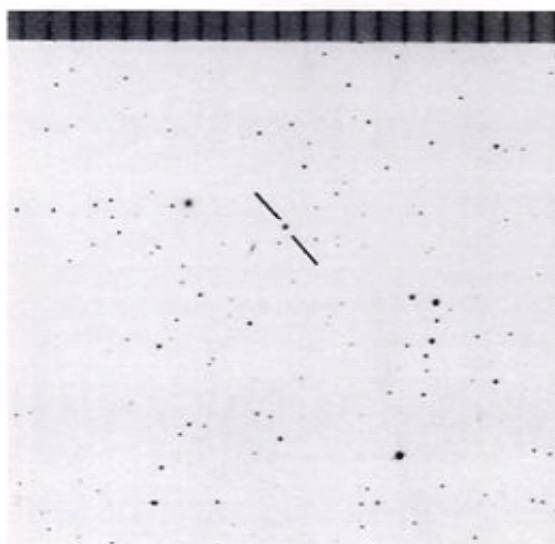
$$\alpha(1950) = 10^{\text{h}}36^{\text{m}}41.1^{\text{s}}$$

$$\delta(1950) = 43^{\circ}21'50''$$

sdO

$$m_{5556} = 11.24$$





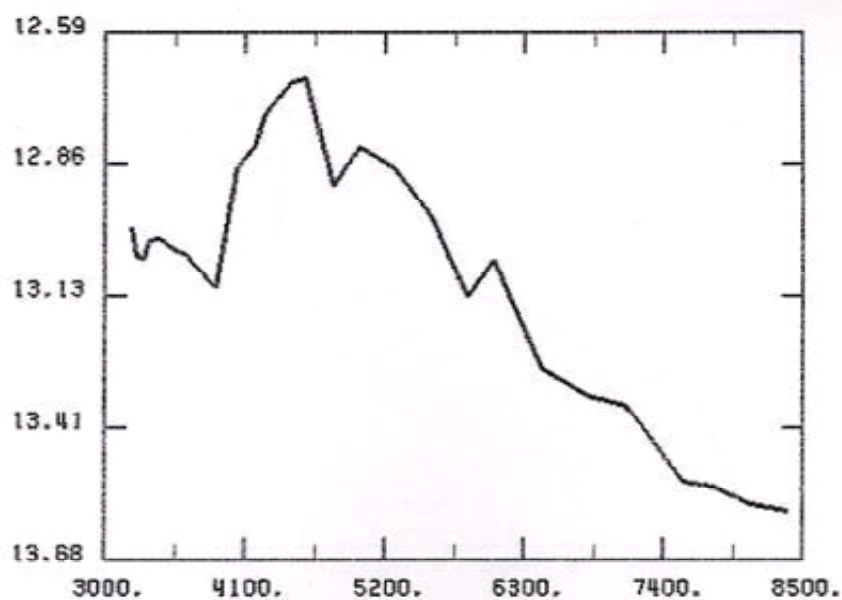
L 970-30 = EG 76 =
G 163-50 = LTT 4099

$\alpha(1950) = 11^{\text{h}}05^{\text{m}}27^{\text{s}}.8$
 $\delta(1950) = -04^{\circ}52'51''$

$\mu_{\alpha} \cos \delta = -0''.43$
 $\mu_{\delta} = 0''.00$

DA

$m_{5556} = 12.97$





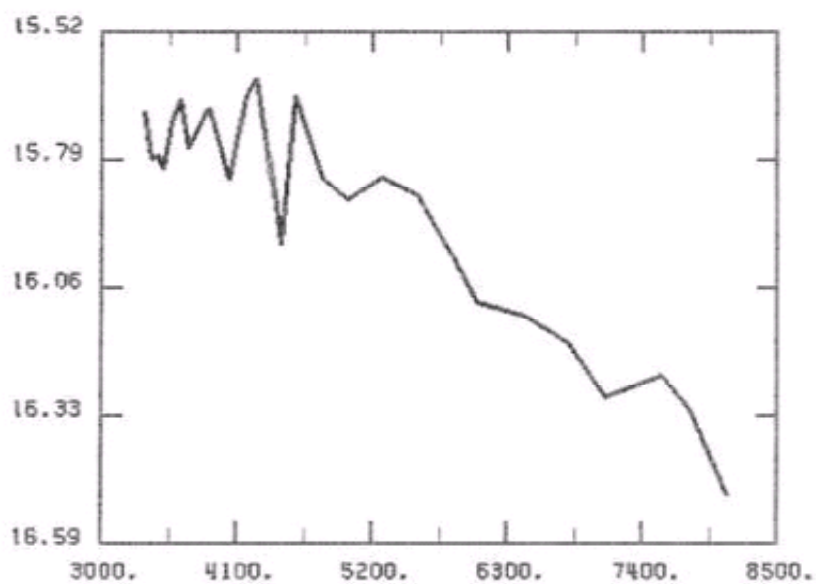
Ton 573 = EG 77 =
L 1403-49 = LTT 13002
= GD 128

$\alpha(1950) = 11^{\text{h}}07^{\text{m}}18^{\text{s}}.4$
 $\delta(1950) = 26^{\circ}35'12''$

$\mu_{\alpha} \cos \delta = +0''.108$
 $\mu_{\delta} = -0''.167$

DB

$m_{5556} = 15.87$





Ross 627 = EG 79

$$\alpha(1950) = 11^{\text{h}}21^{\text{m}}38^{\text{s}}.4$$

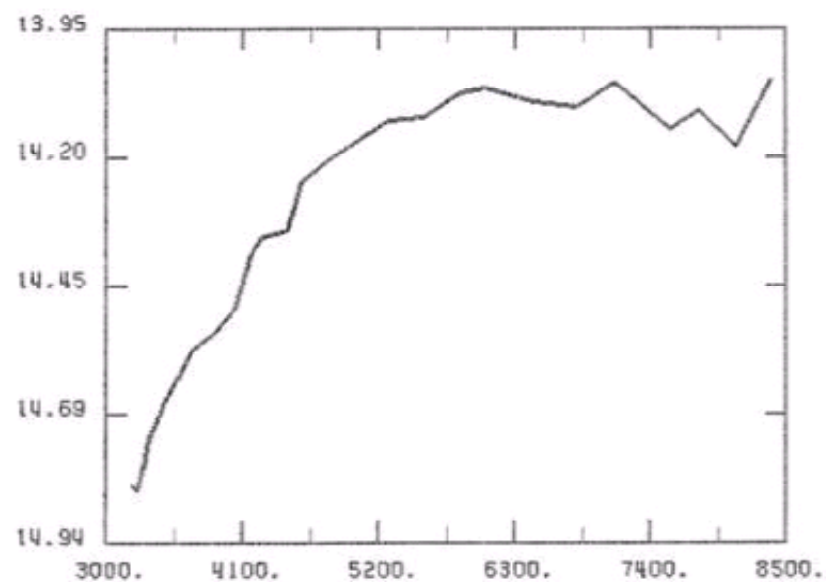
$$\delta(1950) = 21^{\circ}38'05''$$

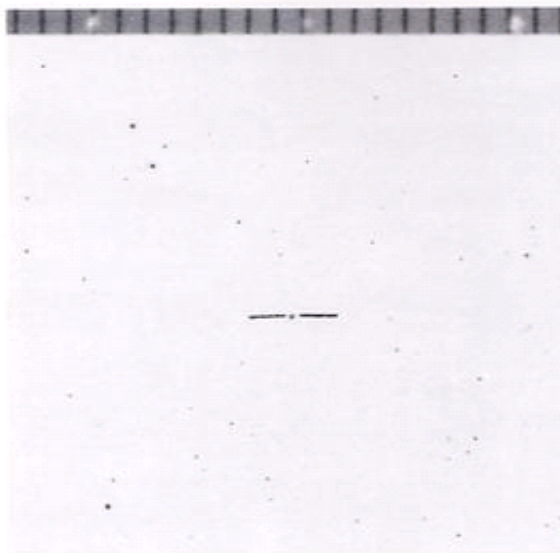
$$\mu_{\alpha} \cos \delta = -0''.95$$

$$\mu_{\delta} = 0''.00$$

DA,F

$$m_{5556} = 14.12$$





GD 140 = EG 184

$$\alpha(1950) = 11^{\text{h}}34^{\text{m}}27^{\text{s}}.8$$

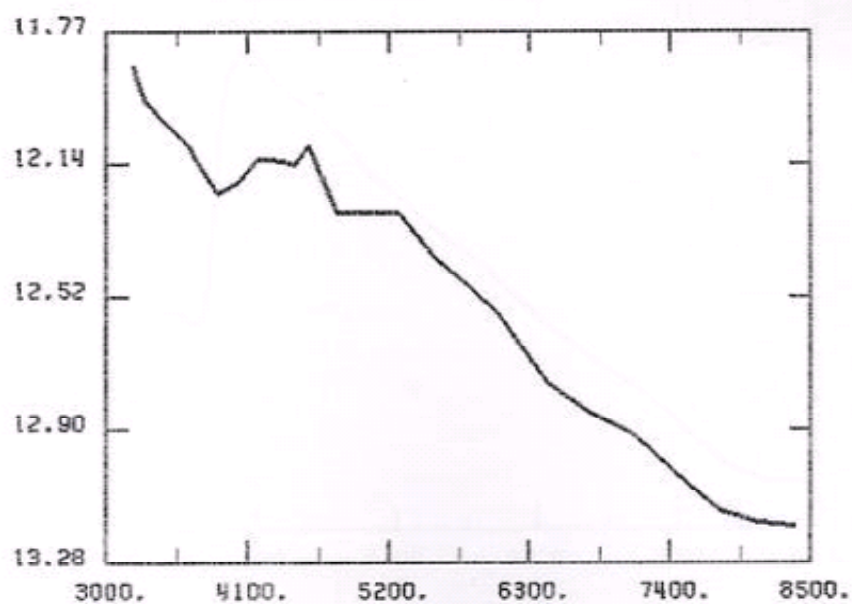
$$\delta(1950) = 30^{\circ}04'35''$$

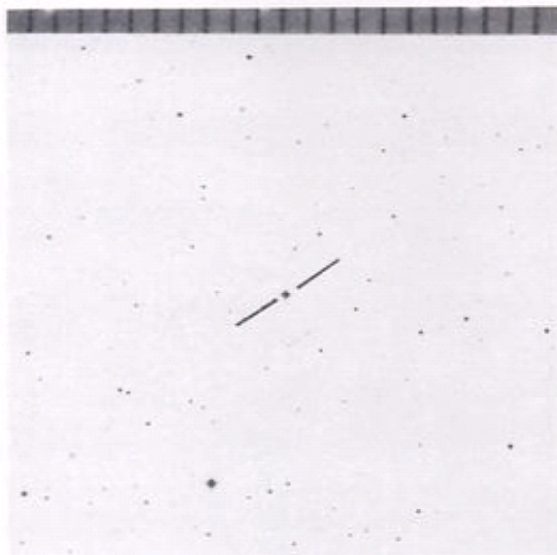
$$\mu_{\alpha} \cos \delta = -0''.15$$

$$\mu_{\delta} = 0''.00$$

DAn

$$m_{5556} = 12.41$$





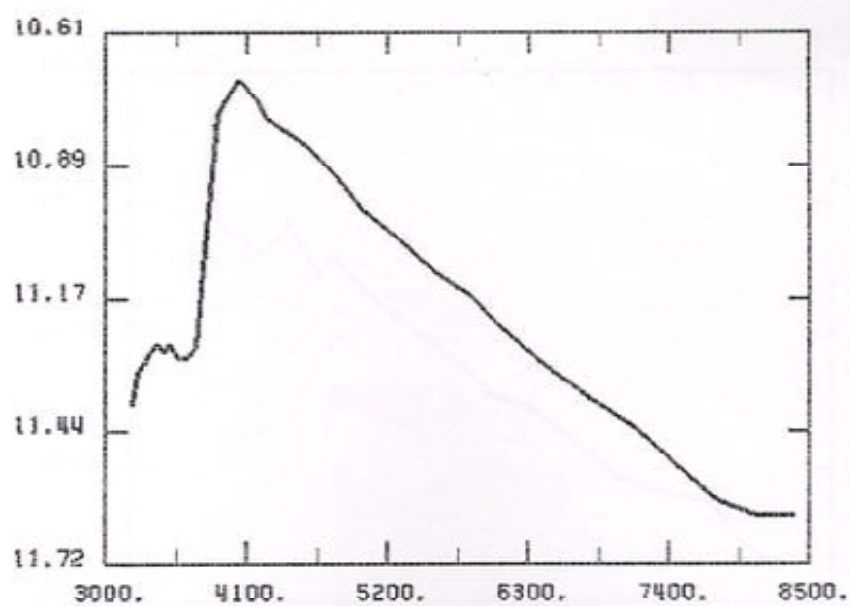
Feige 56

$$\alpha(1950) = 12^{\text{h}}04^{\text{m}}13.8^{\text{s}}$$

$$\delta(1950) = 11^{\circ}56'55''$$

B5p

$$m_{5556} = 11.11$$





HZ 29 = EG 91 = AM CVn

$\alpha(1950) = 12^{\text{h}}32^{\text{m}}28^{\text{s}}.4$

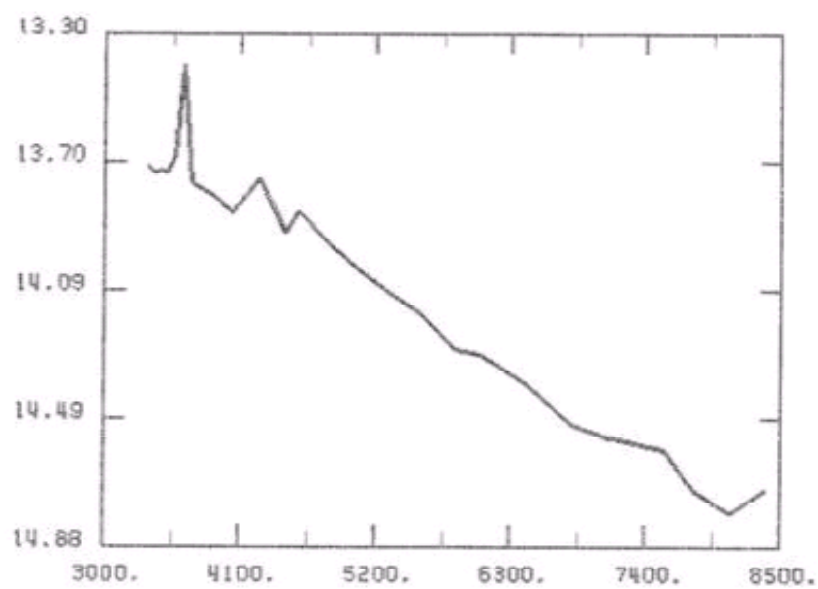
$\delta(1950) = 37^{\circ}54'15''$

$\mu_{\alpha} \cos \delta = +0''.037$

$\mu_{\delta} = +0''.028$

DBp

$m_{5556} = 14.16$





HZ 43 = EG 98 = L 1409-4

$\alpha(1950) = 13^{\text{h}}14^{\text{m}}00^{\text{s}}.7$

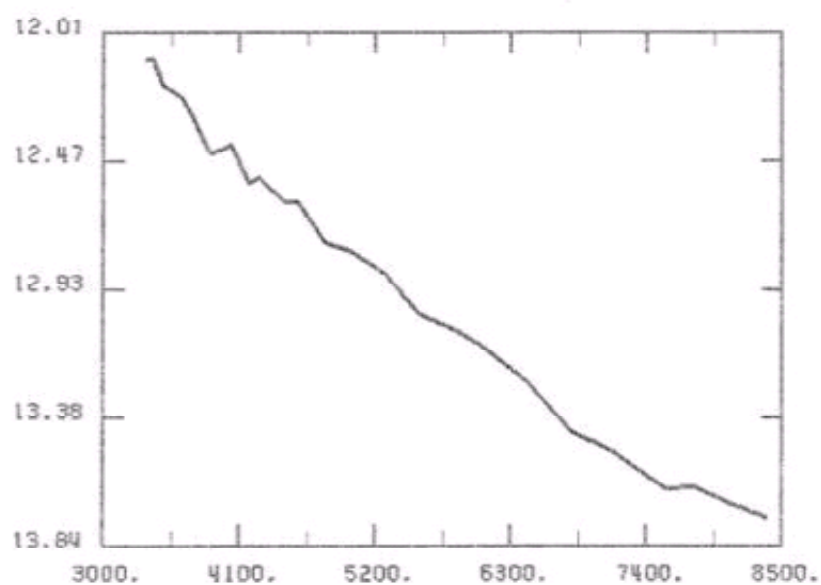
$\delta(1950) = 29^{\circ}21'49''$

$\mu_{\alpha} \cos \delta = -0''.149$

$\mu_{\delta} = -0''.088$

DAwk

$m_{5556} = 13.02$



HZ 44

$$\alpha(1950) = 13^{\text{h}}21^{\text{m}}19^{\text{s}}.1$$

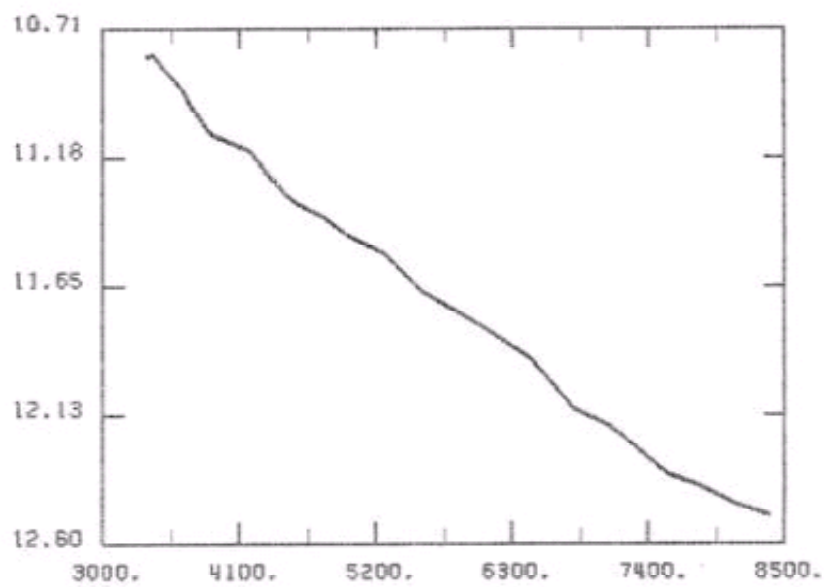
$$\delta(1950) = 36^{\circ}23'38''$$

$$\mu_{\alpha} \cos \delta = -0''.062$$

$$\mu_{\delta} = +0''.031$$

sdO

$$m_{5556} = 11.67$$





Wolf 485A = EG 99 =
BD -7°3632

$$\alpha(1950) = 13^{\text{h}}27^{\text{m}}39^{\text{s}}.6$$

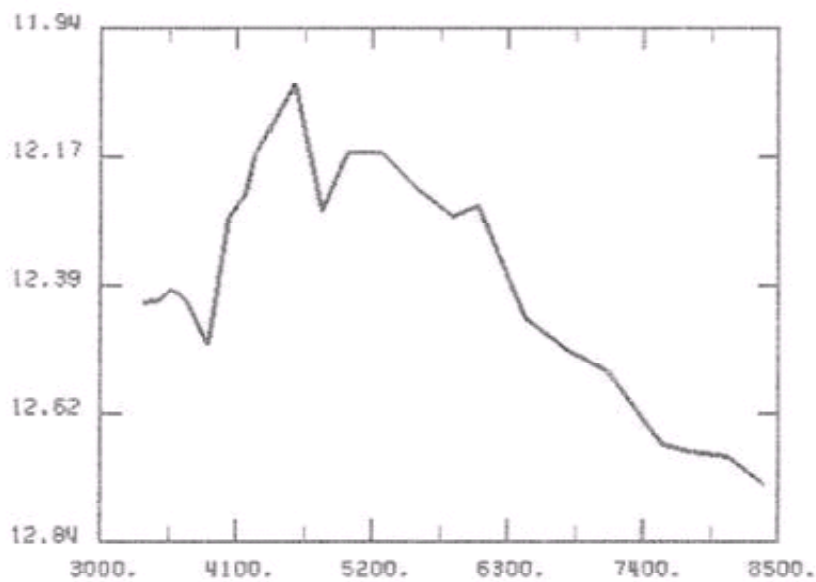
$$\delta(1950) = -08^{\circ}18'40''$$

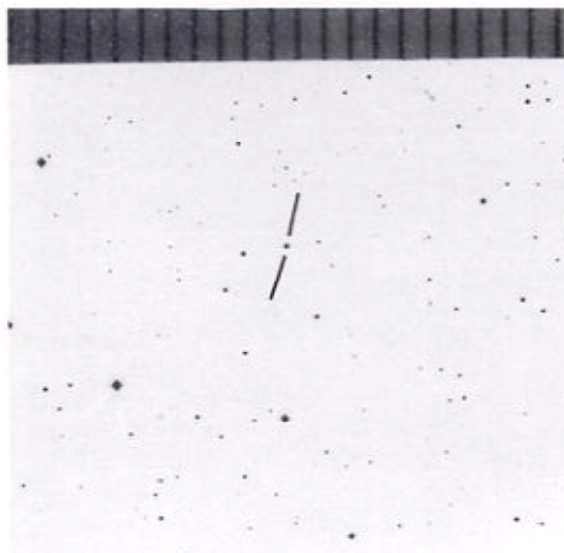
$$\mu_{\alpha} \cos \delta = -1''.077$$

$$\mu_{\delta} = -0''.462$$

DA

$$m_{5556} = 12.22$$





Grw +70°5824 = EG 102

$$\alpha(1950) = 13^{\text{h}}37^{\text{m}}38^{\text{s}}.3$$

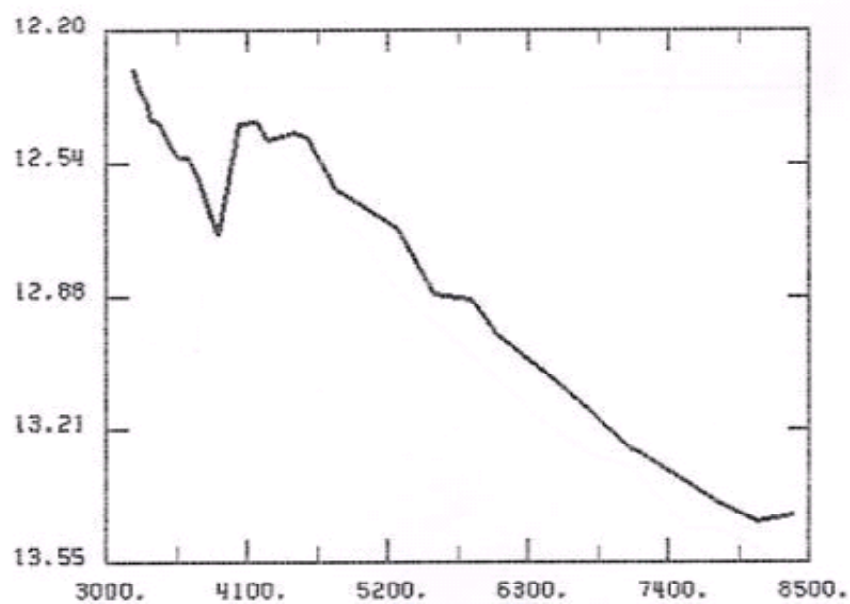
$$\delta(1950) = 70^{\circ}32'20''$$

$$\mu_{\alpha} \cos \delta = -0''.40$$

$$\mu_{\delta} = -0''.02$$

DA

$$m_{5556} = 12.87$$



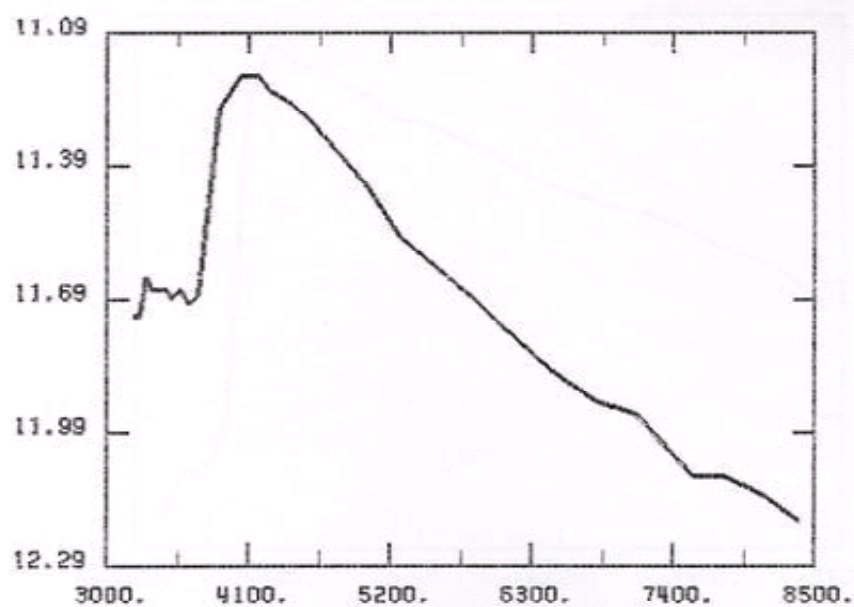
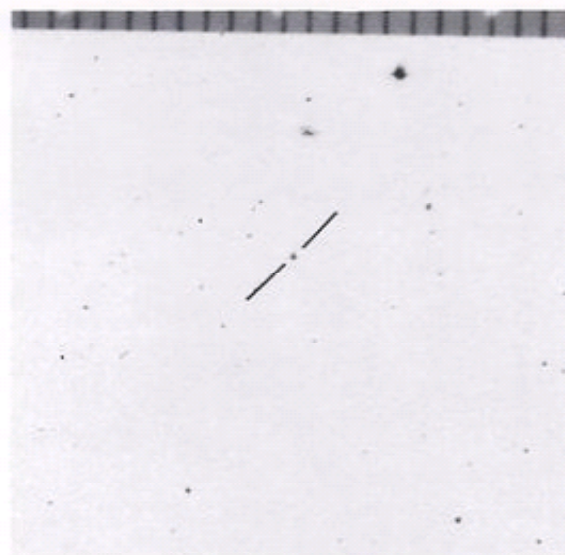
Feige 92

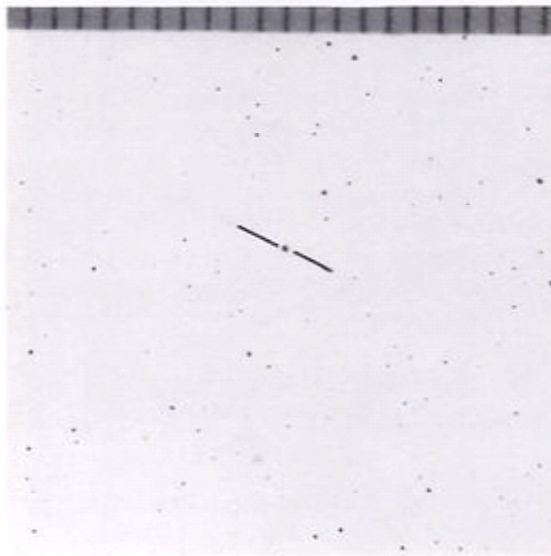
$$\alpha(1950) = 14^{\text{h}}09^{\text{m}}41^{\text{s}}.3$$

$$\delta(1950) = 50^{\circ}21'07''$$

Bp

$$m_{5556} = 11.62$$





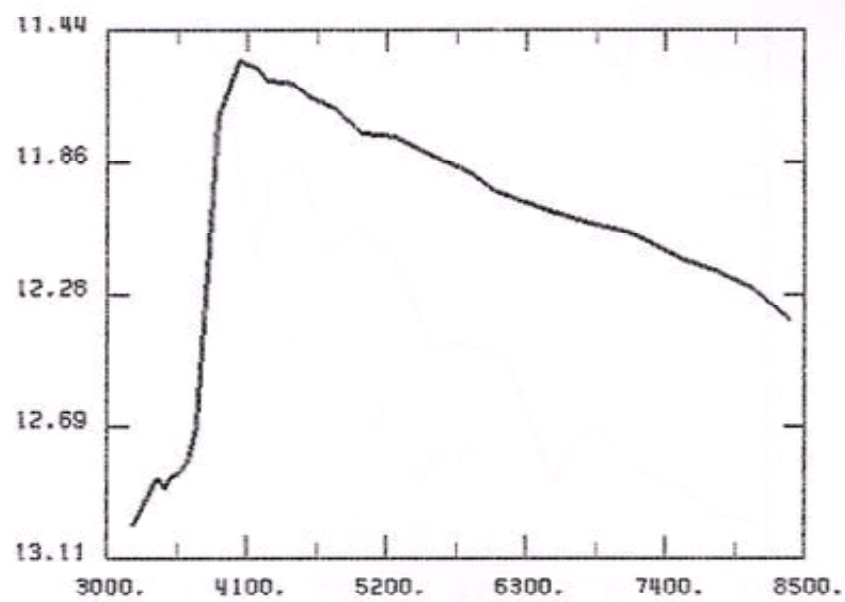
Feige 98

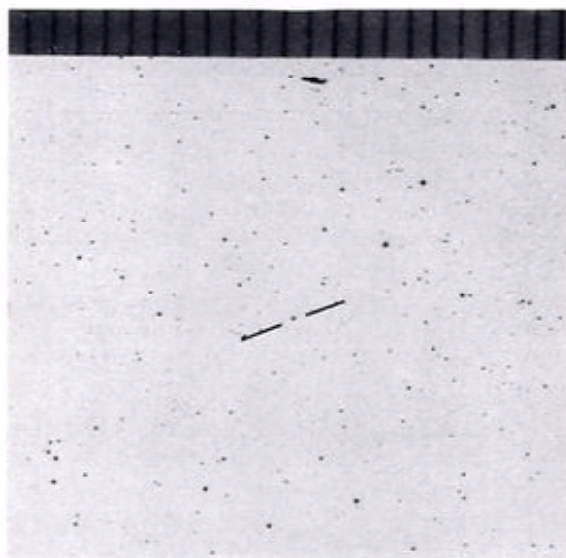
$\alpha(1950) = 14^{\text{h}}36^{\text{m}}04^{\text{s}}.1$

$\delta(1950) = 27^{\circ}42'28''$

B7

$m_{5556} = 11.84$





GD 190 = EG 193

$$\alpha(1950) = 15^{\text{h}}42^{\text{m}}03^{\text{s}}.8$$

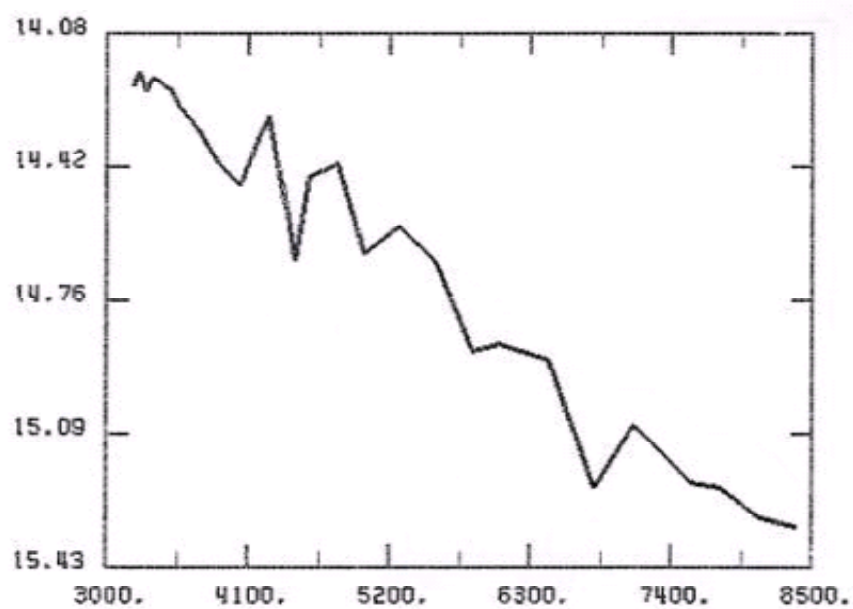
$$\delta(1950) = 18^{\circ}16'12''$$

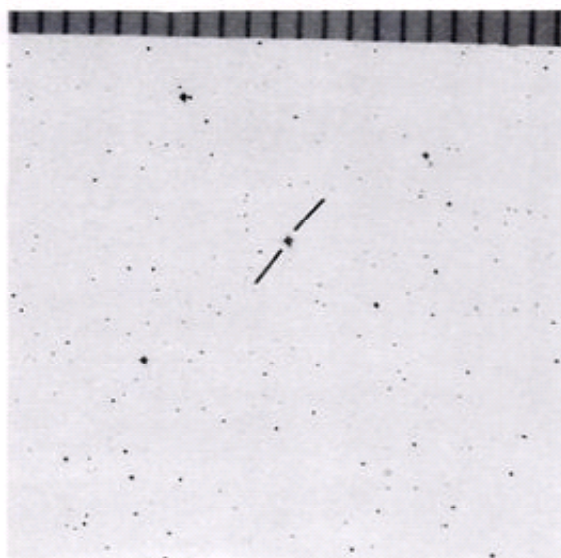
$$\mu_{\alpha} \cos \delta = 0''.00$$

$$\mu_{\delta} = -0''.075$$

DB

$$m_{5556} = 14.66$$





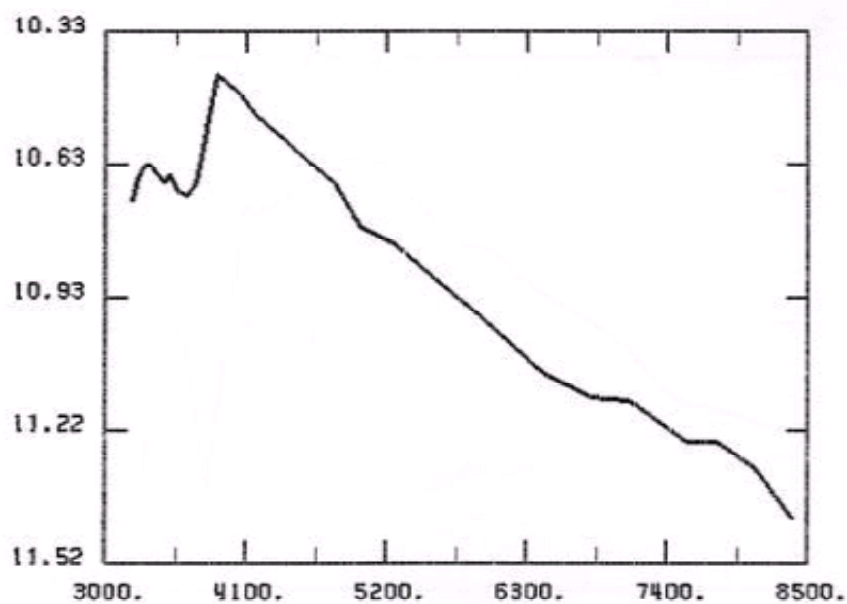
BD +33°2642

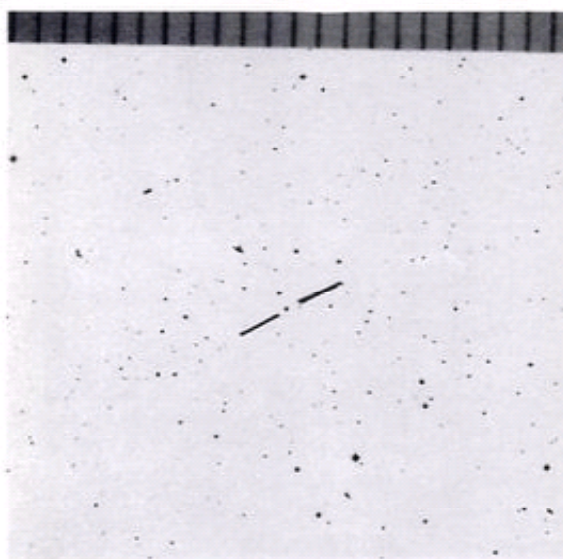
$\alpha(1950) = 15^{\text{h}}50^{\text{m}}02^{\text{s}}.9$

$\delta(1950) = 33^{\circ}05'49''$

B2 IVp

$m_{5556} = 10.88$





Ross 640 = EG 119

$$\alpha(1950) = 16^{\text{h}}26^{\text{m}}39^{\text{s}}.1$$

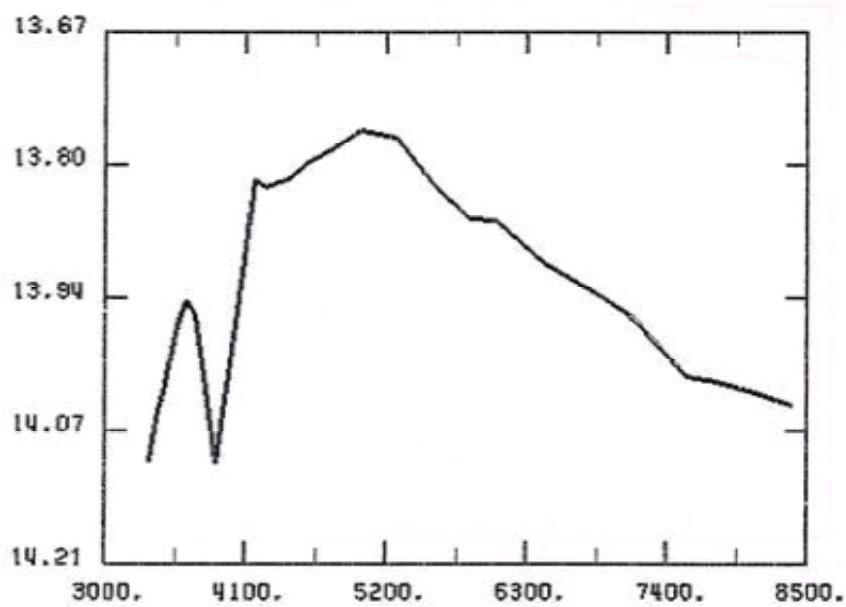
$$\delta(1950) = 36^{\circ}52'15''$$

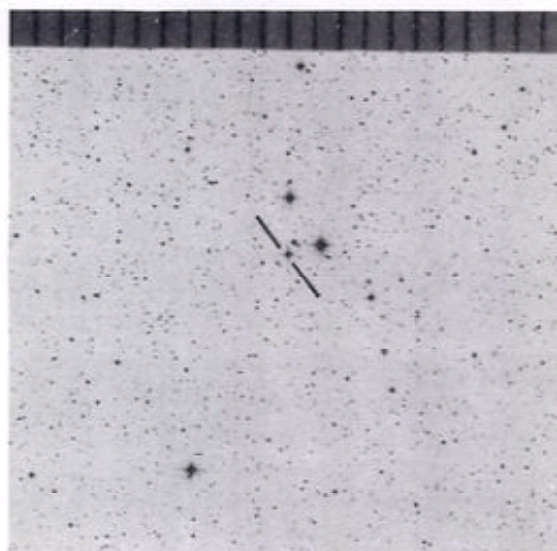
$$\mu_{\alpha} \cos \delta = -0''.46$$

$$\mu_{\delta} = +0''.74$$

DFp

$$m_{5556} = 13.82$$





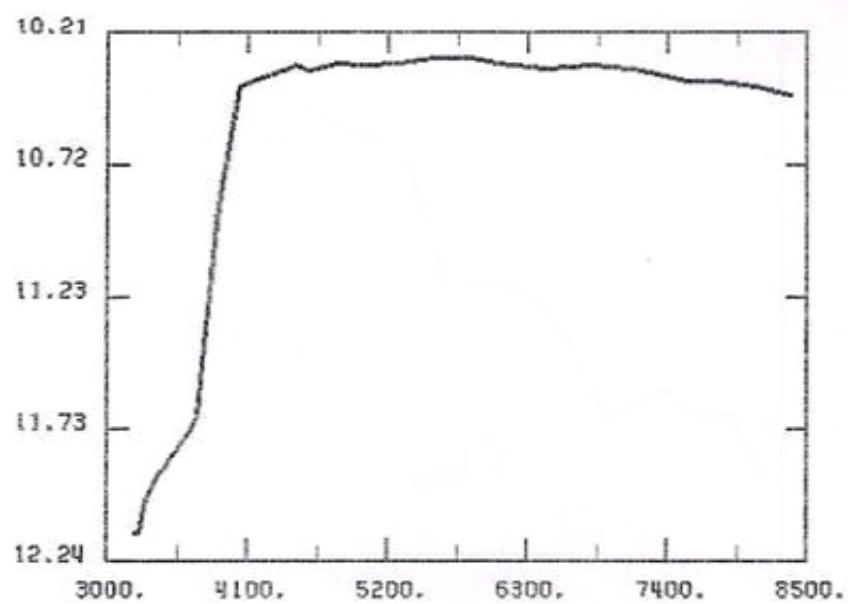
Kopff 27

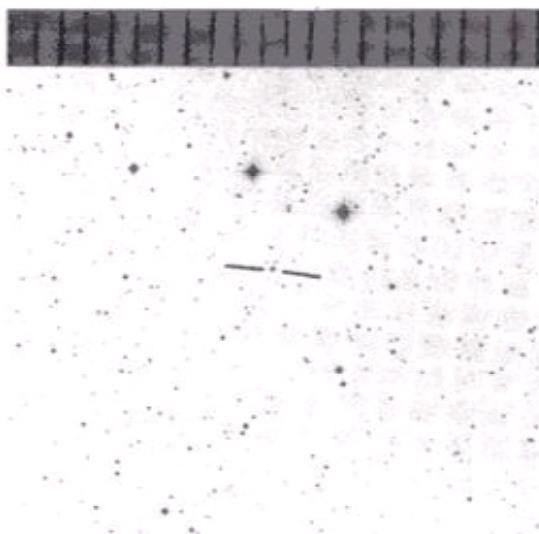
$$\alpha(1950) = 17^{\text{h}}41^{\text{m}}28^{\text{s}}.4$$

$$\delta(1950) = 05^{\circ}26'04''$$

A3 V

$$m_{5556} = 10.31$$





Grw +70°8247 = EG 129

$\alpha(1950) = 19^{\text{h}}00^{\text{m}}39^{\text{s}}.0$

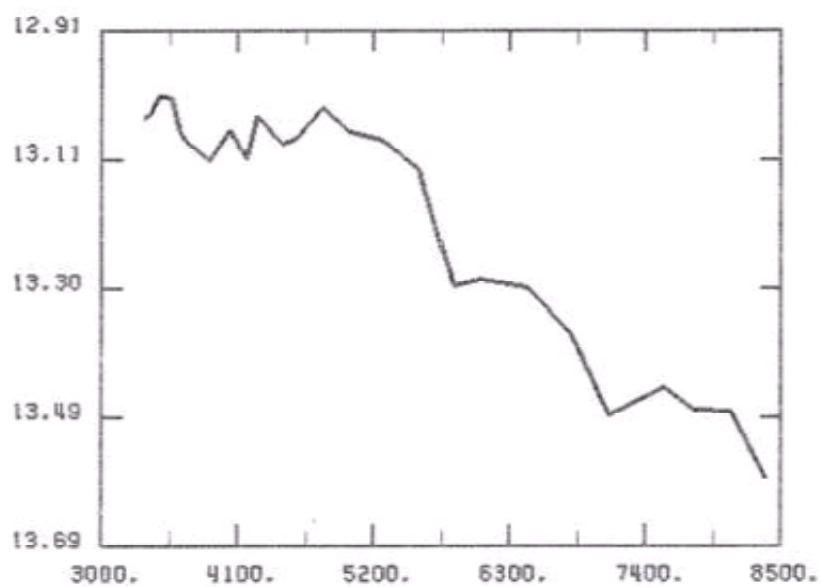
$\delta(1950) = 70^{\circ}35'08''$

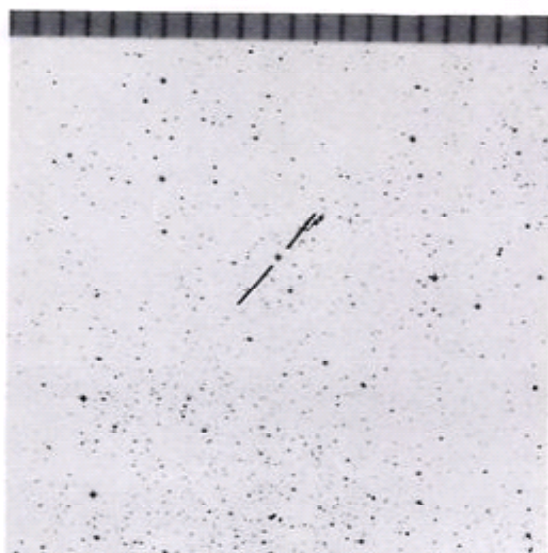
$\mu_{\alpha} \cos \delta = +0''.101$

$\mu_{\delta} = +0''.508$

$\lambda 4135$

$m_{5556} = 13.12$





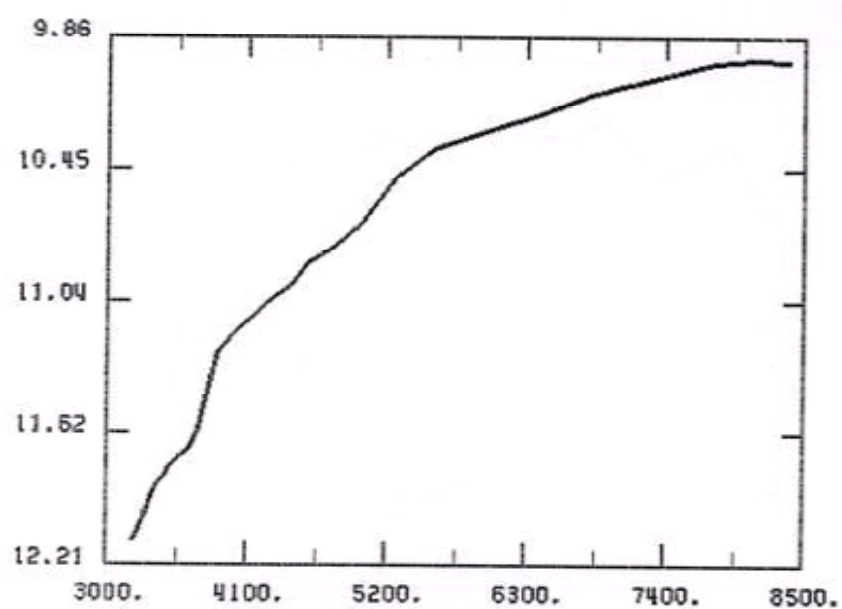
BD +25° 3941

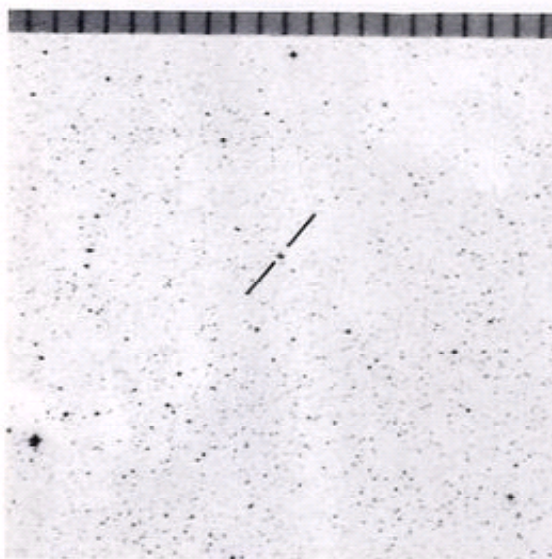
$\alpha(1950) = 19^{\text{h}}42^{\text{m}}21^{\text{s}}.9$

$\delta(1950) = 26^{\circ}06'00''$

B1.5 V

$m_{5556} = 10.36$





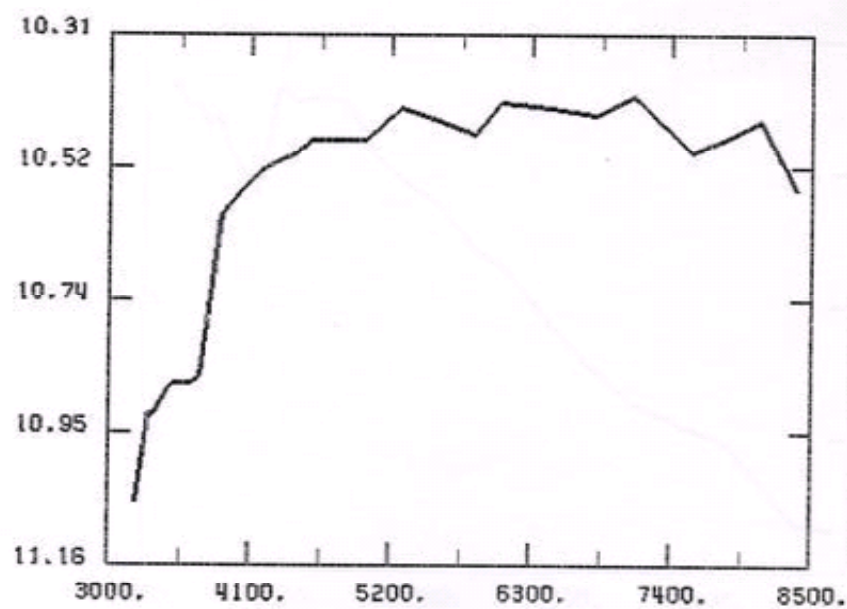
BD +40°4032

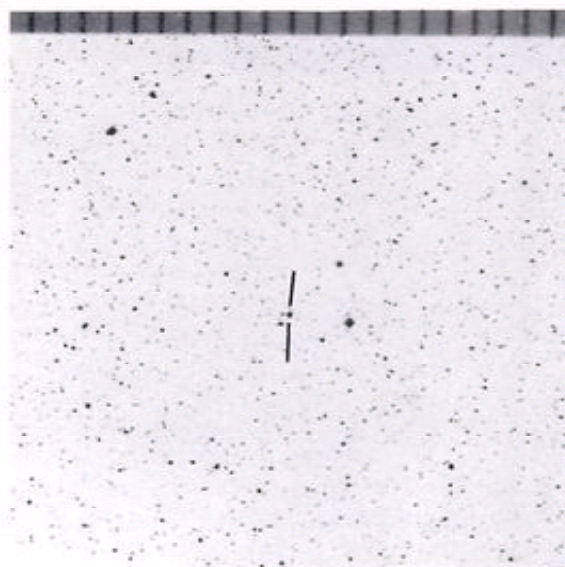
$$\alpha(1950) = 20^{\text{h}}06^{\text{m}}40^{\text{s}}.0$$

$$\delta(1950) = 41^{\circ}06'15''$$

B2 III

$$m_{5556} = 10.45$$





Wolf 1346 = EG 139

$\alpha(1950) = 20^{\text{h}}32^{\text{m}}13^{\text{s}}.8$

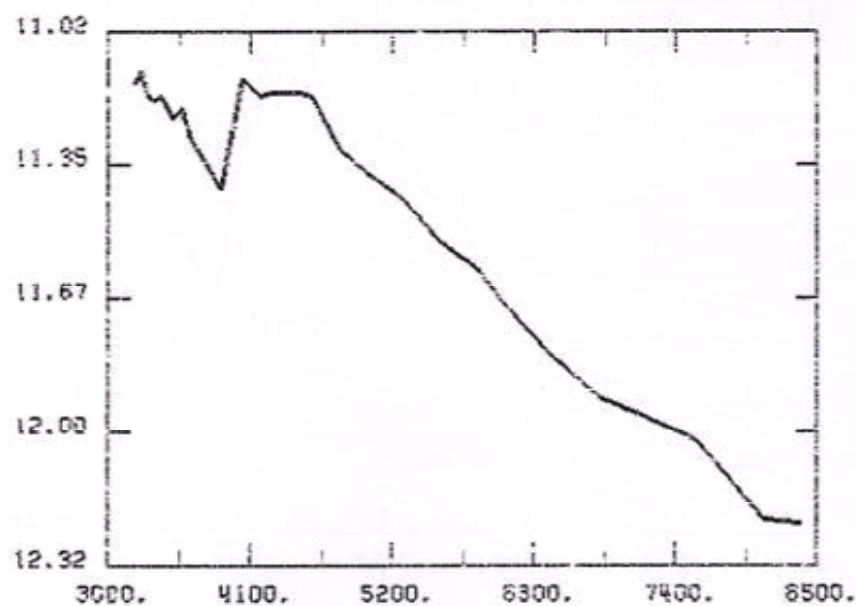
$\delta(1950) = 24^{\circ}53'52''$

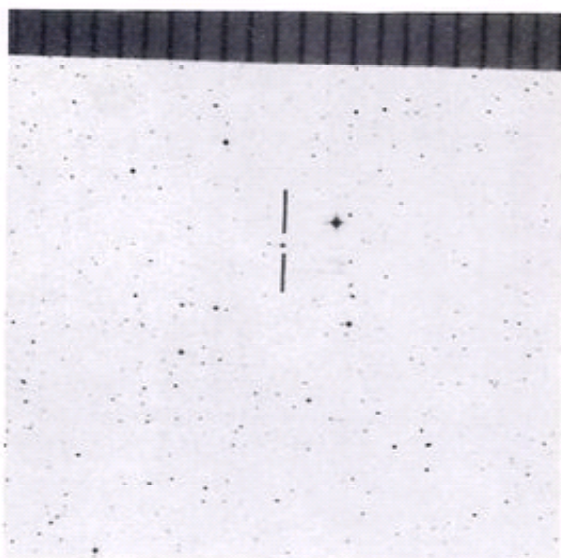
$\mu_{\alpha} \cos \delta = -0".40$

$\mu_{\delta} = -0".55$

DA

$m_{5556} = 11.54$





Grw +73°8031 = EG 144

$$\alpha(1950) = 21^{\text{h}}26^{\text{m}}43^{\text{s}}.6$$

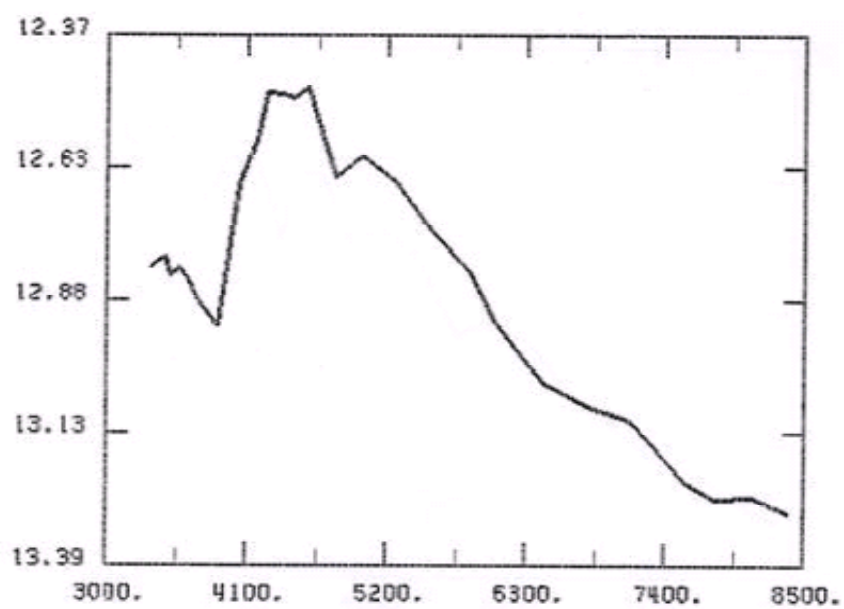
$$\delta(1950) = 73^{\circ}25'52''$$

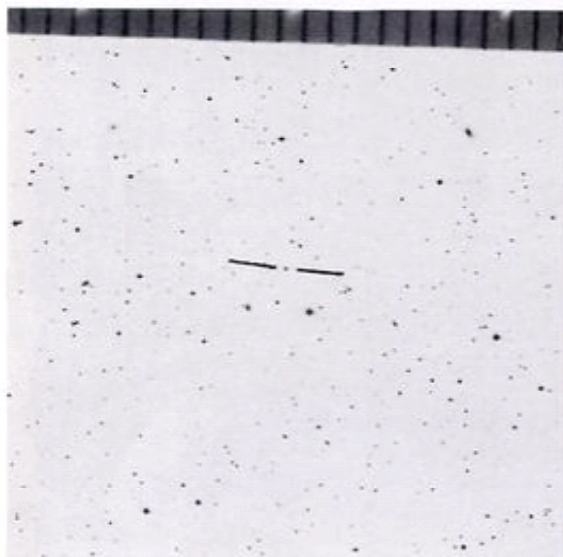
$$\mu_{\alpha} \cos \delta = +0''.045$$

$$\mu_{\delta} = -0''.31$$

DA

$$m_{5556} = 12.75$$





LDS 749B = EG 145 =
G 26-10 = LTT 16294

$$\alpha(1950) = 21^{\text{h}}29^{\text{m}}41^{\text{s}}.3$$

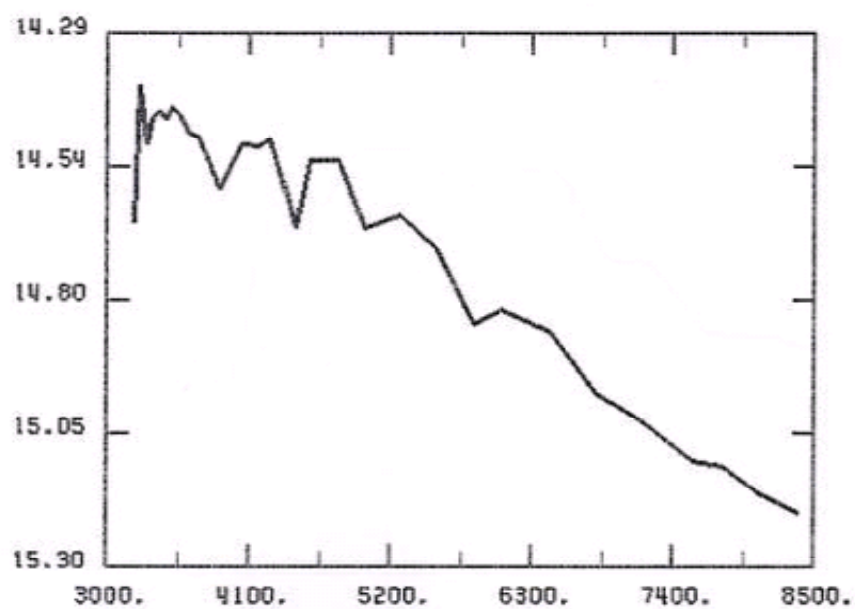
$$\delta(1950) = 00^{\circ}01'55''$$

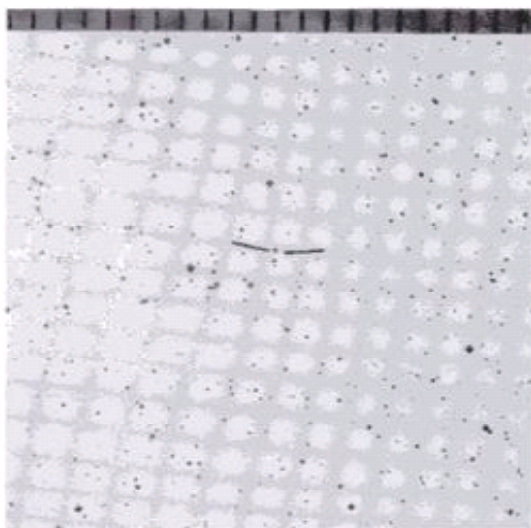
$$\mu_{\alpha} \cos \delta = +0''.420$$

$$\mu_{\delta} = 0''.000$$

DB

$$m_{5556} = 14.70$$





L 1363-3 = EG 148 =
 G 126-27 = G 145-63 =
 LFT 1655

$$\alpha(1950) = 21^{\text{h}}40^{\text{m}}22^{\text{s}}.5$$

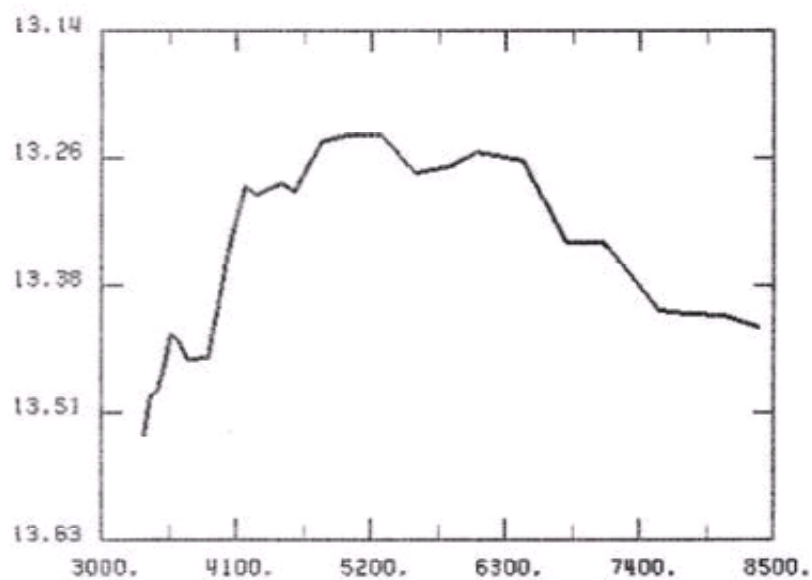
$$\delta(1950) = 20^{\circ}46'45''$$

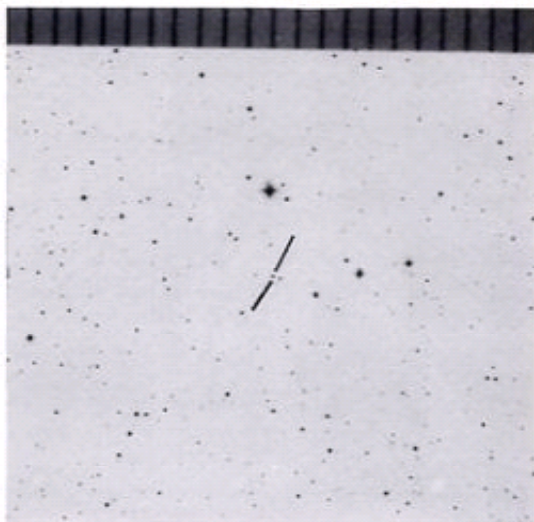
$$\mu_{\alpha} \cos \delta = -0''.24$$

$$\mu_{\delta} = -0''.66$$

DC

$$m_{5556} = 13.28$$





L 930-80 = EG 149 =
G 26-31 = LTT 8702

$\alpha(1950) = 21^{\text{h}}44^{\text{m}}57^{\text{s}}.6$

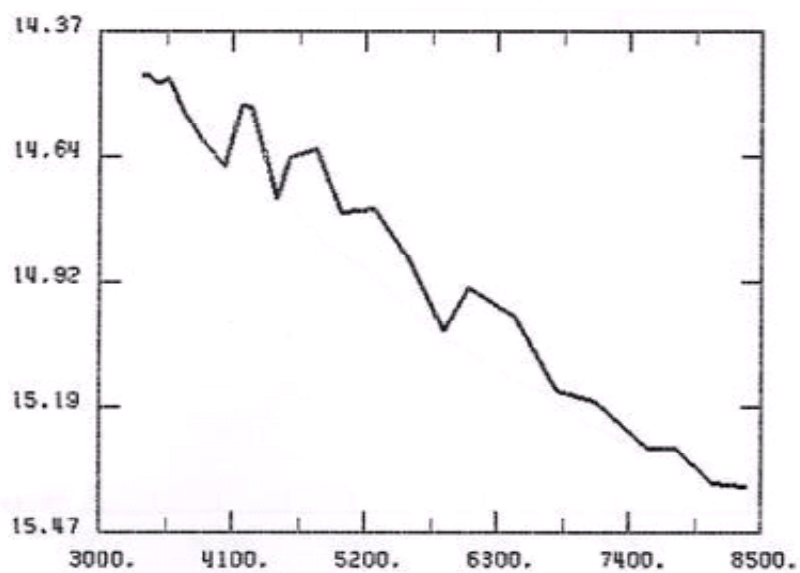
$\delta(1950) = -07^{\circ}58'03''$

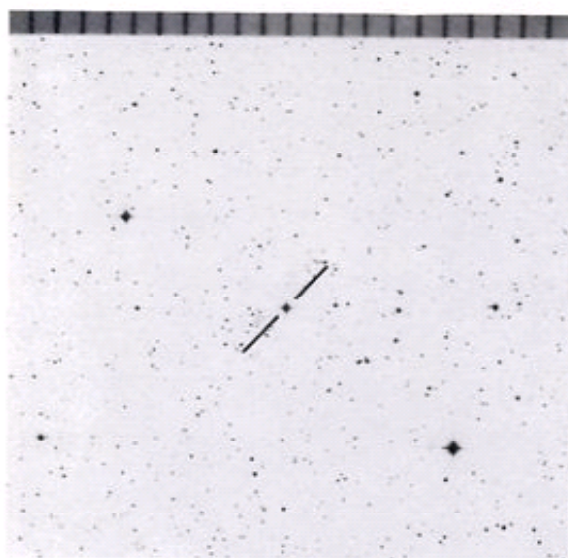
$\mu_{\alpha} \cos \delta = +0''.31$

$\mu_{\delta} = -0''.16$

DB

$m_{5556} = 12.97$





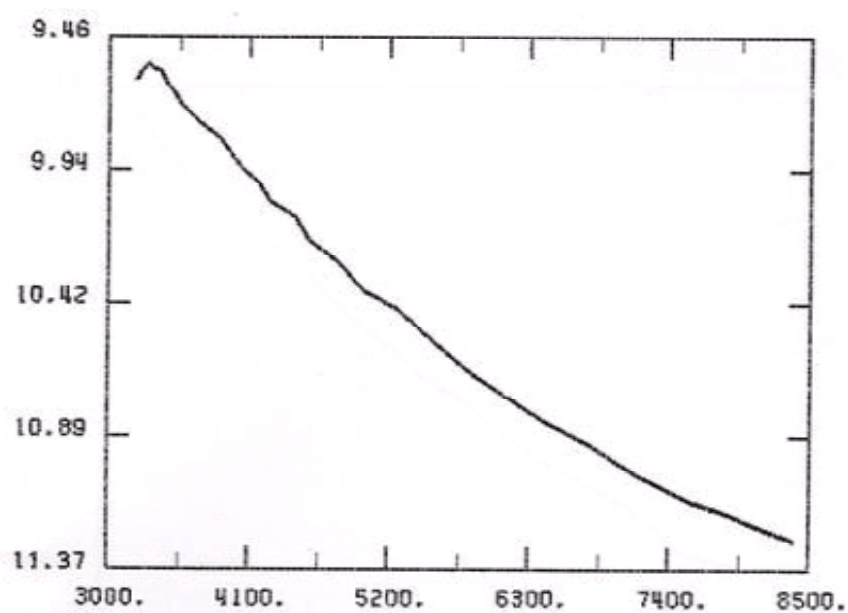
BD +28°4211

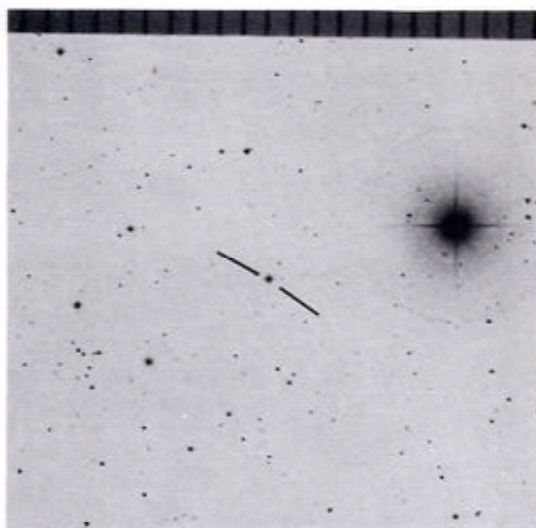
$\alpha(1950) = 21^{\text{h}}48^{\text{m}}57^{\text{s}}.1$

$\delta(1950) = 28^{\circ}37'48''$

sdOp

$m_{5556} = 10.56$





Feige 110 = EG 158

$\alpha(1950) = 23^{\text{h}}17^{\text{m}}23^{\text{s}}.5$

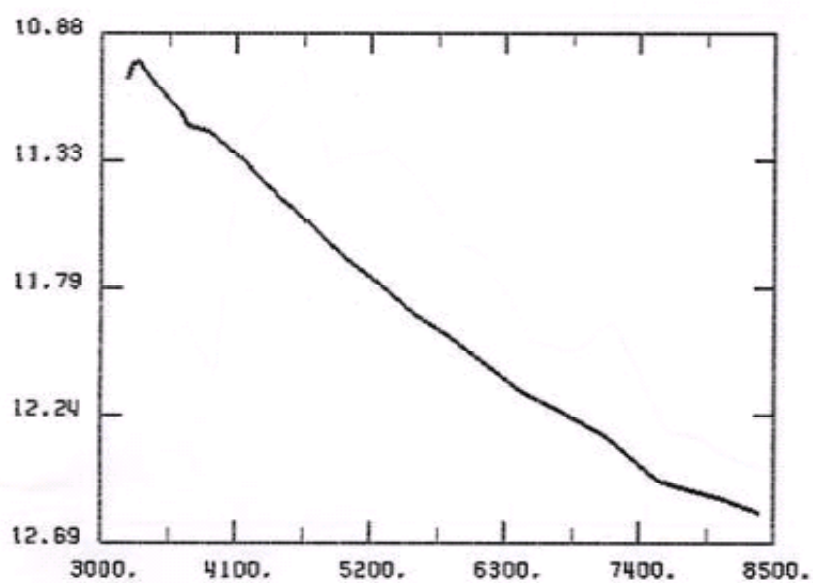
$\delta(1950) = -05^{\circ}26'22''$

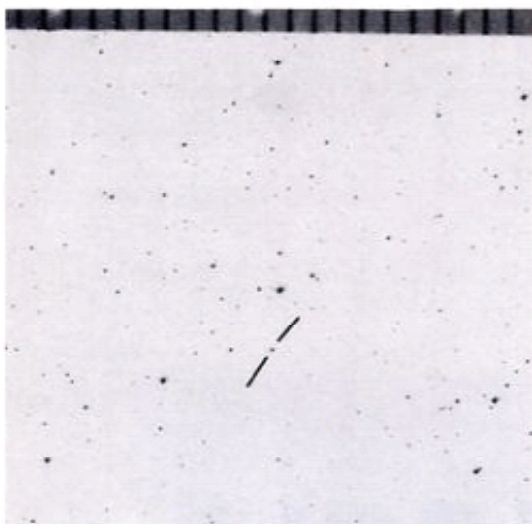
$\mu_{\alpha} \cos \delta = +0''.003$

$\mu_{\delta} = -0''.003$

sd0

$m_{5556} = 11.88$





L 1512-34B = EG 162

$$\alpha(1950) = 23^{\text{h}}41^{\text{m}}21^{\text{s}}.0$$

$$\delta(1950) = 32^{\circ}16'11''$$

$$\mu_{\alpha} \cos \delta = -0''.23$$

$$\mu_{\delta} = -0''.06$$

DA

$$m_{5556} = 12.92$$

