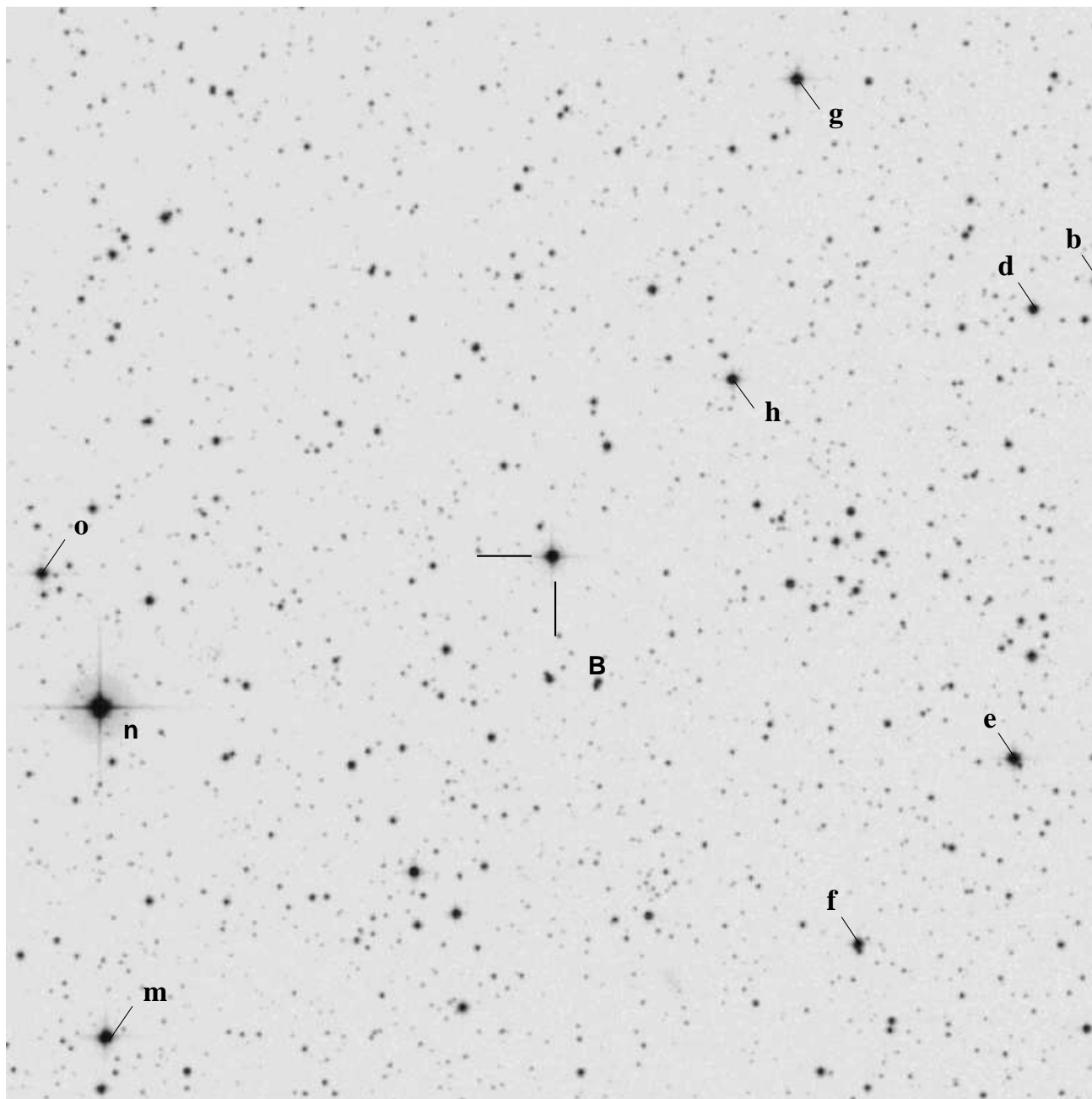


**LPH034, AUID 000-BCZ-082**  
**(AAVSO 0434+41; J0440.9+4431, BSD 24 - 491)**



J0440.9+4431:  $04^h40^m59^s.32 +44^\circ31'49''.3s$  (J2000)  $V=10.78$ ,  $B-V=0.61$   
 15m ( $1/4^\circ$ ) sq field — North up. In Perseus near Capella, Uranometria 65.

Position from: SIMBAD

Comp and Check stars with relatively neutral B-V (from SRO data)

Star	RA	Dec	B	V	R	I	
a	04 40 06.850	44 23 51.558	12.232	11.681	11.353	10.969	Revision
b	04 40 17.294	44 35 31.816	13.261	12.754	12.469	12.109	[2009-09-07]
d	04 40 22.229	44 35 09.305	13.197	12.568	12.166	11.671	

Notes on data reduction: For standard differential photometry use a as the comparison star if possible (plotted on page 2). For ensemble photometry all of the above stars may be used. If inhomogeneous ensemble photometry is used, set the zeropoint with the comp star a (if possible).

Original Henden sequence data for J0440.9+4431 from the 0.35m telescope at Sonoita Research Observatory (SRO) for stars brighter than 13th magnitude:

ID	RA(J2000)	raerr	DEC(J2000)	decerr	nobs	V	B-V	U-B	V-R	R-I	V-I	Errors					
a	70.028543	0.064	44.397655	0.042	4	11.681	0.551	99.999	0.328	0.379	0.712	0.005	0.039	9.999	0.017	0.017	0.009
b	70.072058	0.059	44.592171	0.025	4	12.754	0.507	99.999	0.285	0.354	0.645	0.008	0.032	9.999	0.007	0.014	0.013
c	70.084101	0.045	44.384804	0.055	4	12.820	0.825	99.999	0.508	0.518	1.029	0.000	0.034	9.999	0.021	0.025	0.010
d	70.092621	0.064	44.585918	0.024	4	12.568	0.629	99.999	0.402	0.486	0.897	0.009	0.038	9.999	0.015	0.004	0.010
e	70.100049	0.055	44.483596	0.036	4	11.929	1.714	99.999	0.953	0.959	1.919	0.014	0.025	9.999	0.016	0.027	0.020
f	70.150302	0.034	44.441402	0.035	4	12.653	1.026	99.999	0.606	0.641	1.253	0.012	0.029	9.999	0.014	0.015	0.010
g	70.167872	0.066	44.638584	0.030	4	12.230	1.907	99.999	1.083	1.069	2.158	0.013	0.021	9.999	0.009	0.027	0.025
h	70.188966	0.042	44.570413	0.020	4	12.323	1.067	99.999	0.631	0.622	1.257	0.014	0.031	9.999	0.010	0.022	0.020
i=obj	70.247217	0.045	44.530357	0.008	4	10.695	0.674	99.999	0.456	0.487	0.949	0.014	0.041	9.999	0.018	0.035	0.042
j	70.282242	0.034	44.361997	0.045	4	11.128	1.275	99.999	0.752	0.792	1.552	0.000	0.037	9.999	0.025	0.025	0.016
k	70.303116	0.124	44.682177	0.076	4	10.297	2.411	99.999	1.463	0.951	2.381	0.010	0.011	9.999	0.081	0.045	0.118
l	70.326259	0.067	44.676616	0.038	4	12.847	0.932	99.999	0.703	0.722	1.431	0.026	0.028	9.999	0.009	0.023	0.021
m	70.390872	0.021	44.421437	0.038	4	11.301	1.233	99.999	0.753	0.799	1.561	0.014	0.027	9.999	0.013	0.023	0.014
n=A	70.392324	0.122	44.496585	0.036	4	8.863	0.177	99.999	0.310	0.215	0.456	0.174	0.090	9.999	0.063	-9.999	0.026
o	70.410614	0.040	44.527068	0.026	4	12.353	1.427	99.999	0.856	0.884	1.748	0.008	0.043	9.999	0.022	0.022	0.019

Note: V-I is used to determine I, not R-I.

**ARCHIVAL REFERENCE DATA: Do not** use the data below for photometry. It is here for archival reference only to tie in old data with new data.

Reference star data from SIMBAD					
Ref Star	ID	RA	Dec	B	V
A=n	HD 29580	04 41 34.14	+44 29 47.8	8.80	8.49
B (Var)	OU Per	04 40 55.9	+44 30 06	15.00	

