

Abstract Submitted
for the OSF13 Meeting of
The American Physical Society

Multiband Differential Photometry of the Eclipsing Star Candidates NSVS 5750160, NSVS 3068865 and ASAS 184708-3340.2 ROBERT BERRINGTON, ERIN TUHEY, Ball State University — We present new multiband differential aperture photometry of the three eclipsing star candidates NSVS 5750160 and NSVS 3068865 from the Northern Variability Sky Survey (NSVS) and ASAS 184708-3340.2 from the All Sky Automated Survey (ASAS). All images were acquired by either the Ball State University Observatory 0.4-meter telescope for the northern hemisphere objects, or the Southern Association for Research in Astronomy (SARA) 0.6-meter telescope located at the Cerro-Tololo Inter-American Observatory (CTIO) for the southern hemisphere objects. We report new multiband Johnson-Cousins B, V, and R band differential light curves, and compare with the NSVS and ASAS public release data. All light curves are analyzed with the Wilson and Devinney model implemented by the Physics of Eclipsing Binary (Phoebe) software package. We report the best-fit orbital parameters, and investigate possible star-spot models for these systems.

Robert Berrington
Ball State University

Date submitted: 13 Sep 2013

Electronic form version 1.4