

Title

Lucas, Miles<sup>1</sup> and Brandon, John<sup>1</sup>  
*Iowa State University*  
(Dated: 30 August 2017)

I. INTRODUCTION

II. DATA ACQUISITION AND SETUP

III. DATA ANALYSIS

IV. RESULTS

V. CONCLUSIONS

ACKNOWLEDGEMENTS

Thank you to Dr. Charles Kerton and Brandon Marshall for their guidance and assistance in this work.

Appendix A: Observation Log

TABLE I. Observed 30 August 2017 by Miles Lucas and John Brandon

| Time | File                  | N Frames | Object                 | Filter | Exposure | Camera Temp. | Notes       |
|------|-----------------------|----------|------------------------|--------|----------|--------------|-------------|
| 8:52 | Albireo_V_tenth_      | 10       | Albireo ( $\beta$ Cyg) | V      | 0.1 s    | 5 °C         |             |
| 8:56 | Albireo_V_tenth_dark_ | 5        | Albireo ( $\beta$ Cyg) | V      | 0.1 s    | 5 °C         | Dark frames |
| 8:59 | Albireo_V_half_       | 3        | Albireo ( $\beta$ Cyg) | V      | 0.5 s    | 5 °C         |             |
| 9:01 | Albireo_V_half_dark   | 5        | Albireo ( $\beta$ Cyg) | V      | 0.5 s    | 5 °C         | Dark frames |
| 9:03 | Albireo_V_full_       | 3        | Albireo ( $\beta$ Cyg) | V      | 1.0 s    | 5 °C         |             |
| 9:04 | Albireo_V_full_dark_  | 5        | Albireo ( $\beta$ Cyg) | V      | 1.0 s    | 5 °C         | Dark frames |
| 9:05 | Albireo_B_tenth_      | 5        | Albireo ( $\beta$ Cyg) | B      | 0.1 s    | 5 °C         |             |
| 9:06 | Albireo_I_tenth_      | 5        | Albireo ( $\beta$ Cyg) | I      | 0.1 s    | 5 °C         |             |

Appendix B: Analysis Scripts