

|                                      |                       |          |            |
|--------------------------------------|-----------------------|----------|------------|
|                                      | Star Mag              | 16       | mag        |
|                                      | Filter                | V        |            |
|                                      | Sky                   | Dark     |            |
|                                      | Focal Length          | 1000     | mm         |
|                                      | FWHM                  | 3        | arcsec     |
|                                      | FWHM                  | 3.868    | pixels     |
|                                      | System gain           | 0.33     | e-/ADU     |
| Target                               | Integrated e-/sec     | 77.65    | e-/sec     |
|                                      | Exposure Time         | 120      | sec        |
| Target                               | Total integrated e-   | 9,317.5  | e-         |
|                                      | Aperture radius (pix) | 8        | pixels     |
|                                      | PSF Peak ADU          | 1,476.27 | ADU        |
|                                      | Pixels in aperture    | 201.1    | pixels     |
| Integrated Across<br>Entire aperture | Target shot noise     | 97       | e- (noise) |
|                                      | Read noise            | 24       | e- (noise) |
|                                      | Dark noise            | 9        | e- (noise) |
|                                      | Skyglow noise         | 202      | e- (noise) |
|                                      | Total noise           | 225      | e- (noise) |
|                                      | SNR                   | 41.4     |            |
|                                      | Potential accy        | 0.02417  | mag        |

|                                      |                       |         |            |
|--------------------------------------|-----------------------|---------|------------|
|                                      | Star Mag              | 16      | mag        |
|                                      | Filter                | V       |            |
|                                      | Sky                   | Dark    |            |
|                                      | Focal Length          | 2540    | mm         |
|                                      | FWHM                  | 3       | arcsec     |
|                                      | FWHM                  | 9.825   | pixels     |
|                                      | System gain           | 0.33    | e-/ADU     |
| Target                               | Integrated e-/sec     | 77.65   | e-/sec     |
|                                      | Exposure Time         | 120     | sec        |
| Target                               | Total integrated e-   | 9,317.5 | e-         |
|                                      | Aperture radius (pix) | 20      | pixels     |
|                                      | PSF Peak ADU          | 253.25  | ADU        |
|                                      | Pixels in aperture    | 1,256.6 | pixels     |
| Integrated Across<br>Entire aperture | Target shot noise     | 97      | e- (noise) |
|                                      | Read noise            | 60      | e- (noise) |
|                                      | Dark noise            | 22      | e- (noise) |
|                                      | Skyglow noise         | 199     | e- (noise) |
|                                      | Total noise           | 230     | e- (noise) |
|                                      | SNR                   | 40.5    |            |
|                                      | Potential accy        | 0.02467 | mag        |