

| optic/dof | change in<br>alignment drive | pitch change<br>on OSEMs | change on IM4<br>Trans | calculated<br>drive to move<br>the optic 5urad | expected<br>change at IM4<br>Trans<br>(unverified) |
|-----------|------------------------------|--------------------------|------------------------|------------------------------------------------|----------------------------------------------------|
|           | slider urad                  | OSEM urad                |                        | slider urad                                    |                                                    |
| IM1 P     | -300                         | -6.9                     | 0.024                  | 217                                            | -0.017                                             |
| IM2 P     | -300                         | -7.3                     | 0.030                  | 205                                            | -0.021                                             |
| IM3 P     | -300                         | -7.8                     | 0.013                  | 192                                            | -0.008                                             |

| optic/dof | change in<br>alignment drive | yaw change on<br>OSEMs | change on IM4<br>Trans | calculated<br>drive to move<br>the optic 5urad | expected<br>change at IM4<br>Trans<br>(unverified) |
|-----------|------------------------------|------------------------|------------------------|------------------------------------------------|----------------------------------------------------|
|           | slider urad                  | OSEM urad              |                        | slider urad                                    |                                                    |
| IM1 Y     | -300                         | -25.5                  | -0.173                 | 59                                             | 0.034                                              |
| IM2 Y     | -300                         | -24.62                 | 0.131                  | 61                                             | -0.027                                             |
| IM3 Y     | -300                         | -23.25                 | -0.058                 | 65                                             | 0.012                                              |