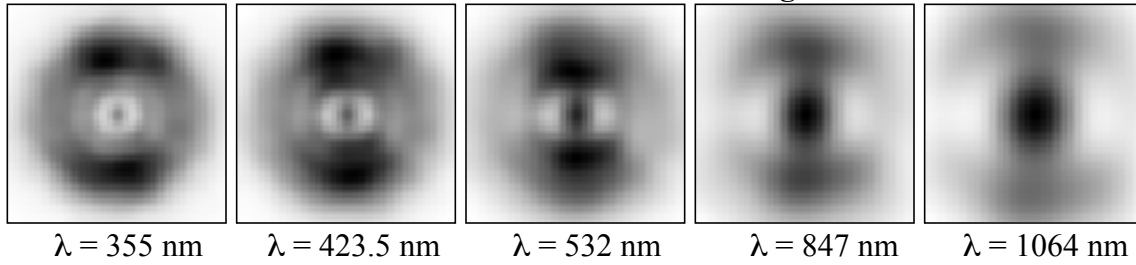
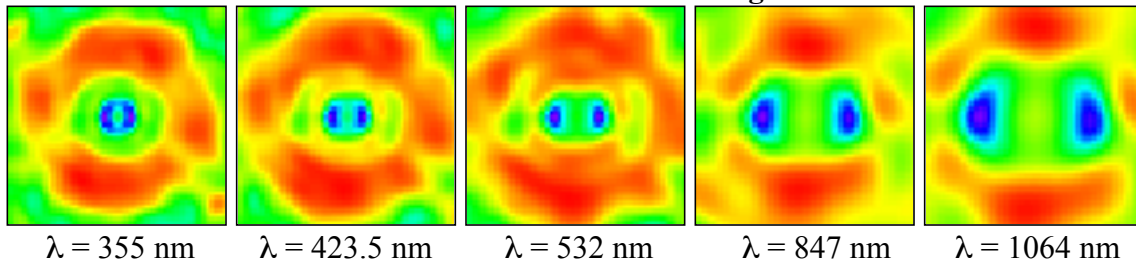


*Linear vertical polarization*

**Cross section vs wavelength**

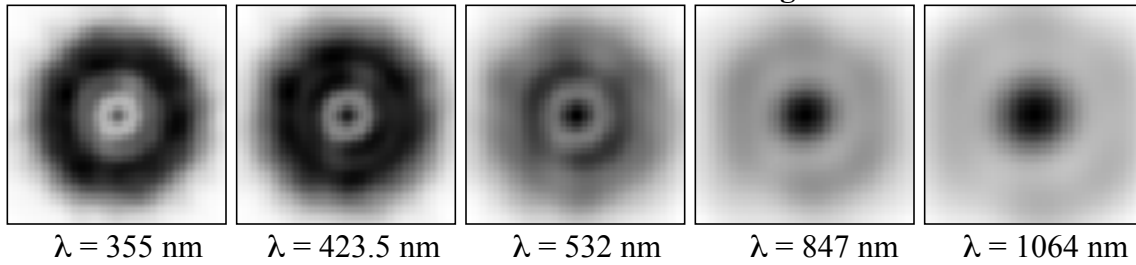


**Centroid vs wavelength**



*Circular polarization*

**Cross section vs wavelength**



**Centroid vs wavelength**

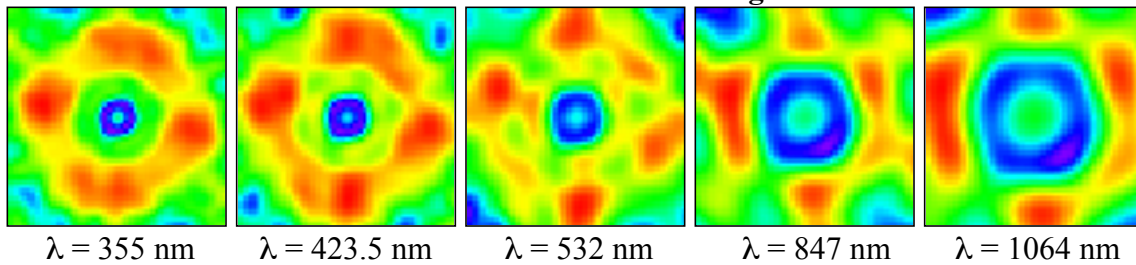
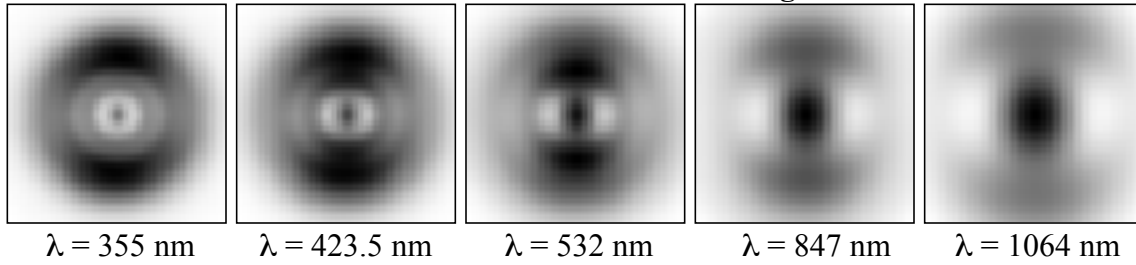


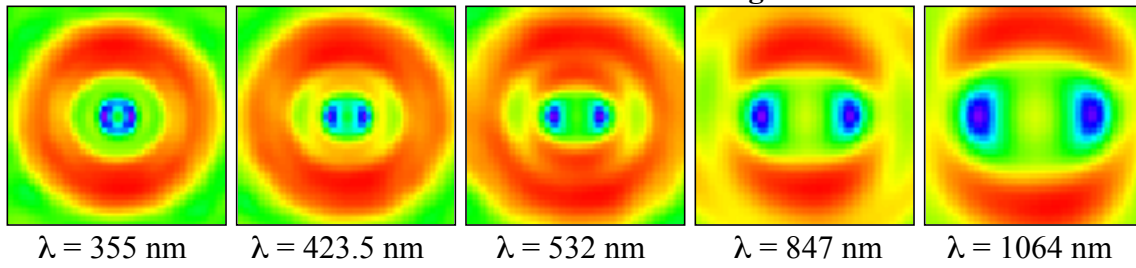
Figure 1. Lages cross section and centroid range correction at a single orientation.

*Linear vertical polarization*

**Cross section vs wavelength**

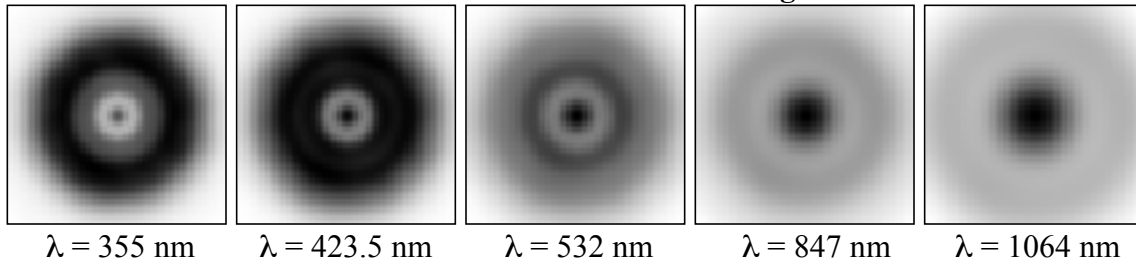


**Centroid vs wavelength**



*Circular polarization*

**Cross section vs wavelength**



**Centroid vs wavelength**

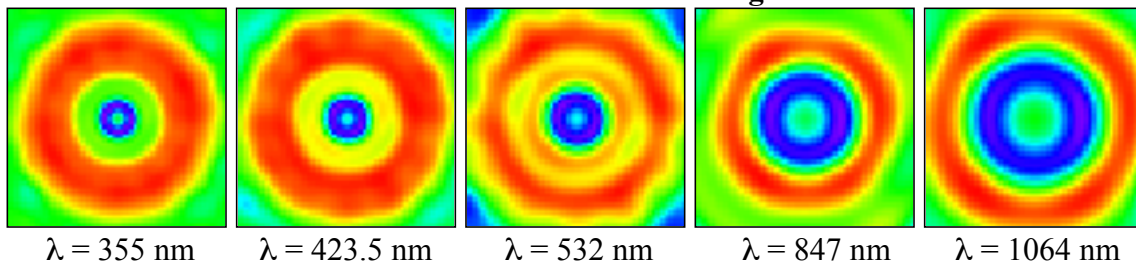
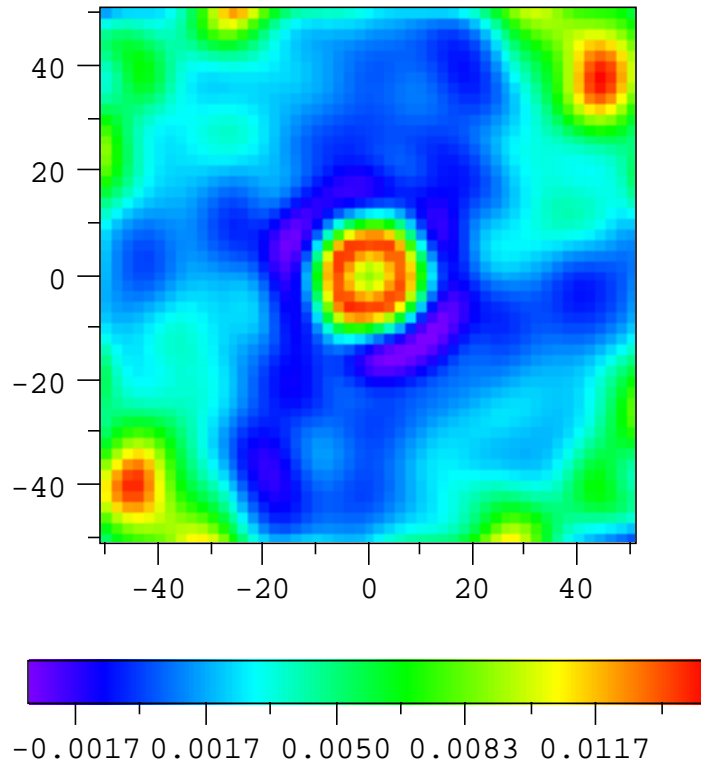
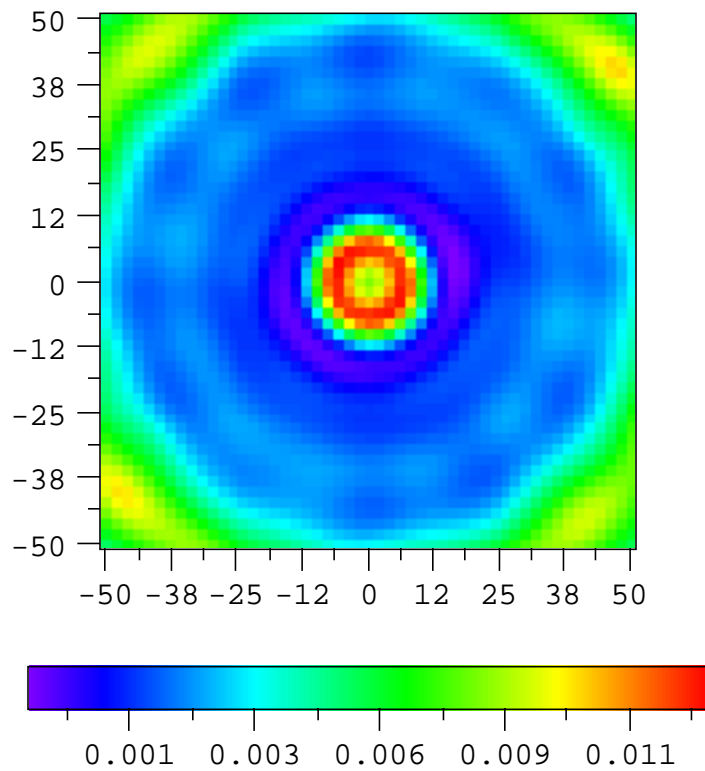


Figure 2. Lageos cross section and centroid range correction averaged over 16 orientations.



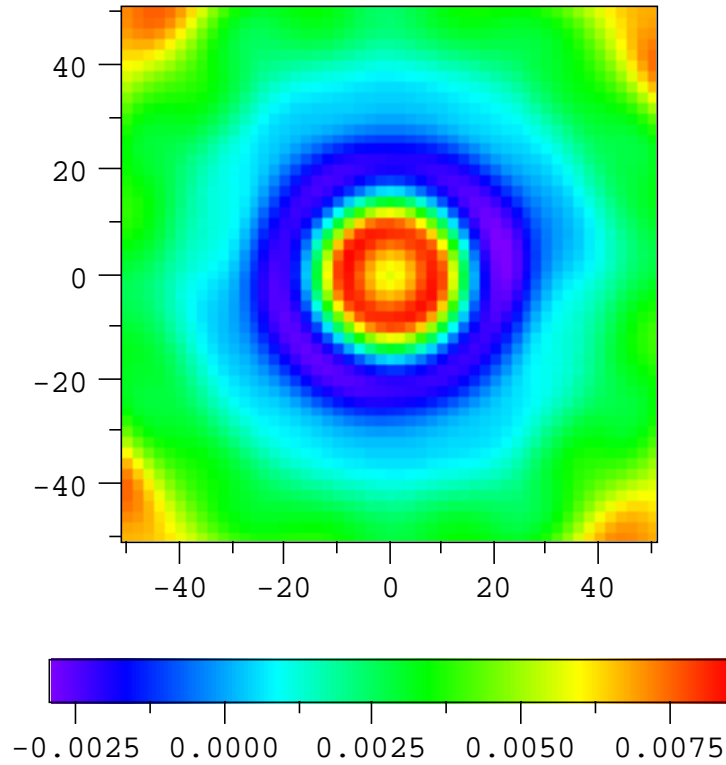
Microrad	Minimum	Average	Maximum	Max - Min
0.0	0.0090280	0.0090280	0.0090280	0.0000000
2.0	0.0096850	0.0098967	0.0100517	0.0003667
4.0	0.0114198	0.0117083	0.0119292	0.0005094
6.0	0.0128080	0.0133172	0.0136457	0.0008377
8.0	0.0111834	0.0120252	0.0130686	0.0018852
10.0	0.0059825	0.0073829	0.0096873	0.0037048
12.0	0.0010526	0.0025919	0.0052541	0.0042015
14.0	-0.0018877	-0.0003592	0.0021126	0.0040003
16.0	-0.0028789	-0.0014734	0.0005714	0.0034503
18.0	-0.0024965	-0.0013465	0.0000231	0.0025195
20.0	-0.0015096	-0.0006318	0.0008024	0.0023120
22.0	-0.0009871	0.0000629	0.0018559	0.0028430
24.0	-0.0010755	0.0004153	0.0024788	0.0035543
26.0	-0.0010526	0.0005334	0.0027009	0.0037535
28.0	-0.0009015	0.0006463	0.0027723	0.0036738
30.0	-0.0006171	0.0008811	0.0028759	0.0034930
32.0	-0.0004476	0.0011837	0.0030507	0.0034983
34.0	-0.0004949	0.0014666	0.0033185	0.0038134
36.0	-0.0008877	0.0016243	0.0036953	0.0045830
38.0	-0.0012723	0.0016542	0.0039258	0.0051981
40.0	-0.0016139	0.0016115	0.0039929	0.0056068
42.0	-0.0016293	0.0015926	0.0038678	0.0054972
44.0	-0.0015634	0.0016931	0.0040515	0.0056150
46.0	-0.0011725	0.0019822	0.0048666	0.0060391
48.0	-0.0007200	0.0024951	0.0063235	0.0070435
50.0	-0.0000875	0.0032949	0.0082541	0.0083415

Figure 3. Difference (meters) between the centroid range correction at 847 and 423.5 nm for circular polarization at a single orientation.



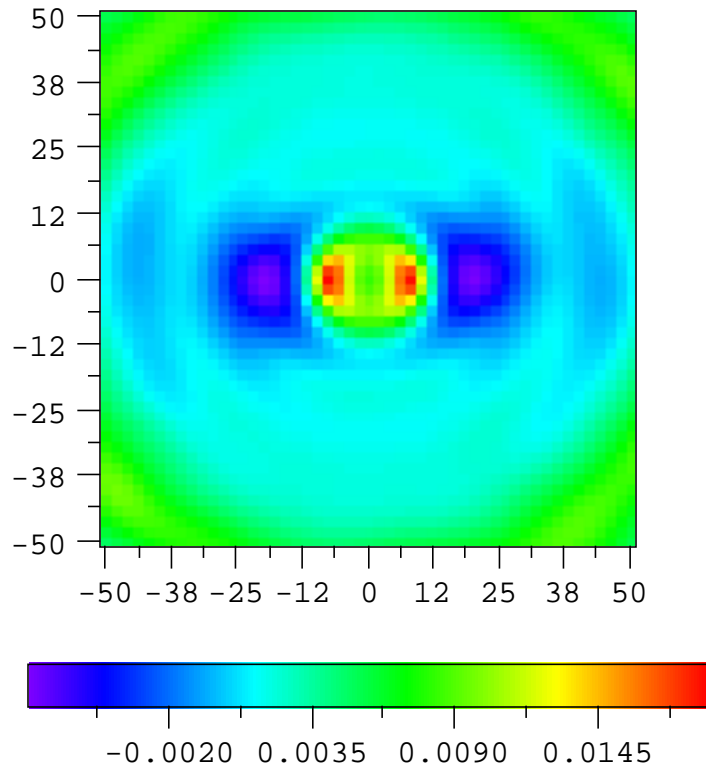
Microrad	Minimum	Average	Maximum	Max - Min
0.0	0.0081900	0.0081900	0.0081900	0.0000000
2.0	0.0088000	0.0089805	0.0090860	0.0002860
4.0	0.0105000	0.0106778	0.0108345	0.0003345
6.0	0.0119810	0.0123710	0.0127220	0.0007410
8.0	0.0110356	0.0115613	0.0119800	0.0009444
10.0	0.0070254	0.0074764	0.0079127	0.0008873
12.0	0.0024372	0.0030304	0.0034551	0.0010179
14.0	-0.0003728	0.0002495	0.0006452	0.0010180
16.0	-0.0014420	-0.0008079	-0.0004564	0.0009856
18.0	-0.0013328	-0.0006971	-0.0003989	0.0009339
20.0	-0.0006807	-0.0000232	0.0002793	0.0009600
22.0	-0.0000379	0.0006269	0.0009603	0.0009982
24.0	0.0003121	0.0009164	0.0013019	0.0009898
26.0	0.0004412	0.0009356	0.0013392	0.0008981
28.0	0.0005613	0.0009555	0.0013410	0.0007797
30.0	0.0007985	0.0011342	0.0014789	0.0006804
32.0	0.0011201	0.0014397	0.0017856	0.0006655
34.0	0.0014235	0.0017527	0.0021139	0.0006904
36.0	0.0015500	0.0019218	0.0023378	0.0007878
38.0	0.0014100	0.0018978	0.0023830	0.0009730
40.0	0.0011500	0.0017434	0.0022895	0.0011395
42.0	0.0009500	0.0016093	0.0021927	0.0012427
44.0	0.0009800	0.0016617	0.0022362	0.0012562
46.0	0.0013300	0.0020065	0.0025431	0.0012131
48.0	0.0020000	0.0026279	0.0031063	0.0011063
50.0	0.0028942	0.0034602	0.0041010	0.0012068

Figure 4. Difference (meters) between the centroid range correction at 847 and 423.5 nm for circular polarization averaged over 16 orientations.



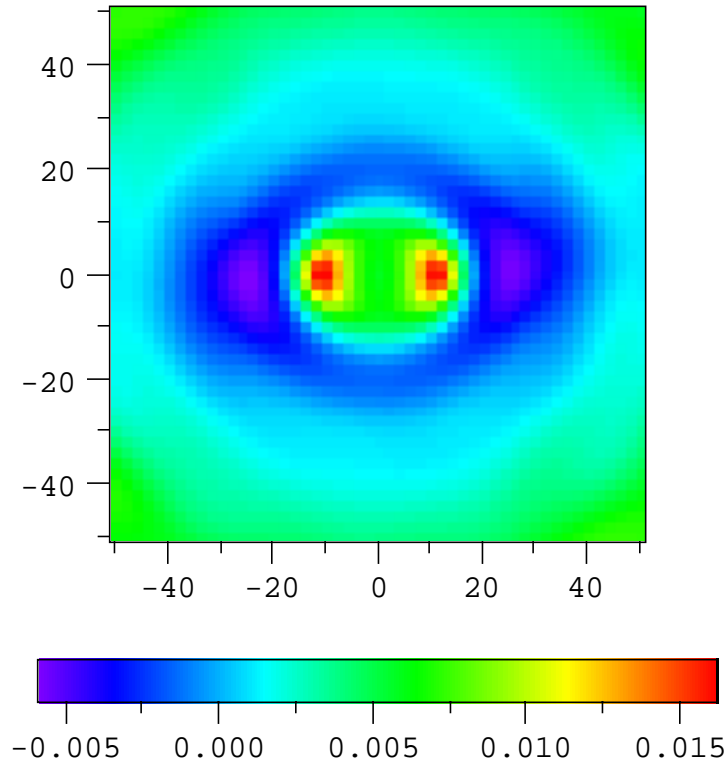
Microrad	Minimum	Average	Maximum	Max - Min
0.0	0.0057300	0.0057300	0.0057300	0.0000000
2.0	0.0059600	0.0060322	0.0060694	0.0001094
4.0	0.0065900	0.0066913	0.0067493	0.0001593
6.0	0.0074527	0.0075902	0.0077148	0.0002621
8.0	0.0079408	0.0082106	0.0084312	0.0004904
10.0	0.0073851	0.0077408	0.0080601	0.0006749
12.0	0.0054771	0.0057711	0.0061118	0.0006347
14.0	0.0026775	0.0029569	0.0032111	0.0005336
16.0	0.0000120	0.0003971	0.0006400	0.0006280
18.0	-0.0018052	-0.0013461	-0.0010500	0.0007552
20.0	-0.0027453	-0.0022328	-0.0018871	0.0008583
22.0	-0.0029604	-0.0024004	-0.0020435	0.0009170
24.0	-0.0026561	-0.0020353	-0.0016951	0.0009609
26.0	-0.0020328	-0.0013562	-0.0010011	0.0010317
28.0	-0.0013200	-0.0006200	-0.0001751	0.0011449
30.0	-0.0007167	-0.0000331	0.0004886	0.0012053
32.0	-0.0003093	0.0003317	0.0008968	0.0012061
34.0	-0.0000250	0.0005356	0.0011233	0.0011483
36.0	0.0002341	0.0007103	0.0012908	0.0010567
38.0	0.0005376	0.0009531	0.0015286	0.0009910
40.0	0.0009369	0.0012945	0.0018703	0.0009334
42.0	0.0013438	0.0017154	0.0022985	0.0009547
44.0	0.0017052	0.0021586	0.0027690	0.0010637
46.0	0.0020442	0.0025520	0.0032133	0.0011691
48.0	0.0022834	0.0028464	0.0035794	0.0012960
50.0	0.0023800	0.0030407	0.0038491	0.0014691

Figure 5. Difference (meters) between the centroid range correction at 1064 and 532 nm for circular polarization averaged over 16 orientations.



Microrad	Minimum	Average	Maximum	Max - Min
0.0	0.0084000	0.0084000	0.0084000	0.0000000
2.0	0.0087900	0.0091961	0.0093448	0.0005548
4.0	0.0097100	0.0109287	0.0120030	0.0022930
6.0	0.0101100	0.0128548	0.0164500	0.0063400
8.0	0.0085900	0.0124440	0.0187800	0.0101900
10.0	0.0054755	0.0081801	0.0126400	0.0071645
12.0	0.0027182	0.0031977	0.0040131	0.0012949
14.0	-0.0021326	-0.0000024	0.0012882	0.0034208
16.0	-0.0053700	-0.0014137	0.0009200	0.0062900
18.0	-0.0070400	-0.0016526	0.0012300	0.0082700
20.0	-0.0074800	-0.0012532	0.0017200	0.0092000
22.0	-0.0068400	-0.0006982	0.0019979	0.0088379
24.0	-0.0056319	-0.0003131	0.0019414	0.0075733
26.0	-0.0044826	-0.0000935	0.0016996	0.0061822
28.0	-0.0032696	0.0001595	0.0015283	0.0047979
30.0	-0.0020019	0.0005420	0.0015908	0.0035927
32.0	-0.0008422	0.0010101	0.0018338	0.0026760
34.0	0.0000249	0.0014318	0.0021385	0.0021136
36.0	0.0004381	0.0016572	0.0022838	0.0018457
38.0	0.0003831	0.0016450	0.0023445	0.0019613
40.0	0.0000402	0.0014793	0.0022924	0.0022522
42.0	-0.0003699	0.0013329	0.0022890	0.0026589
44.0	-0.0005633	0.0013867	0.0024991	0.0030624
46.0	-0.0003746	0.0017443	0.0030960	0.0034707
48.0	0.0001867	0.0023974	0.0039685	0.0037817
50.0	0.0010753	0.0032708	0.0050434	0.0039681

Figure 6. Difference (meters) between the centroid range correction at 847 and 423.5 nm for linear polarization averaged over 16 orientations.



Microrad	Minimum	Average	Maximum	Max - Min
0.0	0.0058900	0.0058900	0.0058900	0.0000000
2.0	0.0059800	0.0061890	0.0062805	0.0003005
4.0	0.0061800	0.0068690	0.0074800	0.0013000
6.0	0.0062400	0.0078688	0.0096900	0.0034500
8.0	0.0057700	0.0088255	0.0129700	0.0072000
10.0	0.0045200	0.0089707	0.0162600	0.0117400
12.0	0.0027000	0.0074038	0.0162300	0.0135300
14.0	0.0008582	0.0042991	0.0110200	0.0101618
16.0	-0.0005332	0.0011547	0.0045600	0.0050932
18.0	-0.0015610	-0.0010706	-0.0001778	0.0013832
20.0	-0.0034176	-0.0023016	-0.0015100	0.0019076
22.0	-0.0051100	-0.0027421	-0.0012900	0.0038200
24.0	-0.0059300	-0.0026057	-0.0007820	0.0051480
26.0	-0.0059700	-0.0020939	-0.0001628	0.0058072
28.0	-0.0054100	-0.0014419	0.0004223	0.0058323
30.0	-0.0046250	-0.0008678	0.0008392	0.0054642
32.0	-0.0039564	-0.0004575	0.0010744	0.0050308
34.0	-0.0033257	-0.0001730	0.0012010	0.0045267
36.0	-0.0026522	0.0001027	0.0013023	0.0039545
38.0	-0.0018890	0.0004489	0.0014623	0.0033513
40.0	-0.0010865	0.0008829	0.0017219	0.0028084
42.0	-0.0003166	0.0013762	0.0021404	0.0024570
44.0	0.0003381	0.0018714	0.0026083	0.0022702
46.0	0.0007916	0.0022975	0.0030562	0.0022646
48.0	0.0010227	0.0026102	0.0034504	0.0024276
50.0	0.0010601	0.0028136	0.0038679	0.0028078

Figure 7. Difference (meters) between the centroid range correction at 1064 and 523 nm for linear polarization averaged over 16 orientations.