The validations all pass, now ieValidateRDTFullAll, FullOne.

Verified all passing 1/8/24 - DHB

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

It may be worth some thought about how we have rng calls scattered throughout the code. Adding an rng('default') in a subroutine changed

the rng sequence in a calling routine.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Worried about needing to call wvfComputePupilFunction and wvfComputePSF over and over again. Used to be cached for speed. Should replace with wvfCompute in any case, and watch out for correct key value pairs on

LCA and SCE.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The rgc validations were not being run on the ISETBio master. I think those date back to James Golden and bear no relation to anything we currently care about.

Need to think about:

1) opticsGet - lensmakers formula in image/focal plane distance for SI? We think this is right

2) oiGet - we think we should get the focal length not distance to image plane to compute angular height and width.

3) oiGet - maybe should not allow asking for distance to image/focal plane without saying specifically what sDist is.

4) opticsGet - check comment on RTeffective focal length.

5) cos4th line 40. Should this be focal length?

6) oiGet angular resolution based on fL. This may be solved when we think about 2 above.

7) We have 1.2 hard coded as the default for sDist in oiGet and that is not good.