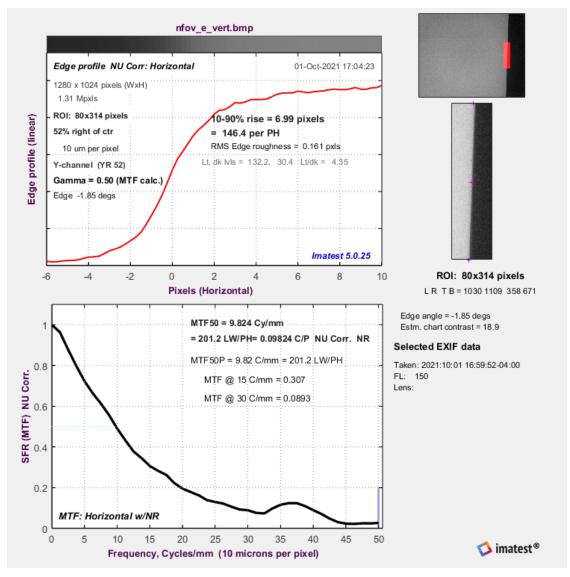
MTF measurement

By Sang Moon

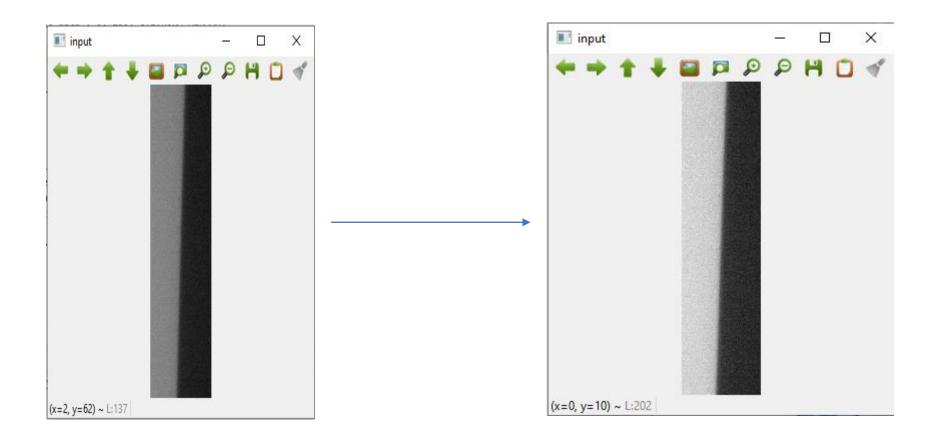
Input image (sharp edge)



'M:/CAST/MTF/Images/z1200 mtf cell 1 retained-1001/nfov_e_vert.bmp'

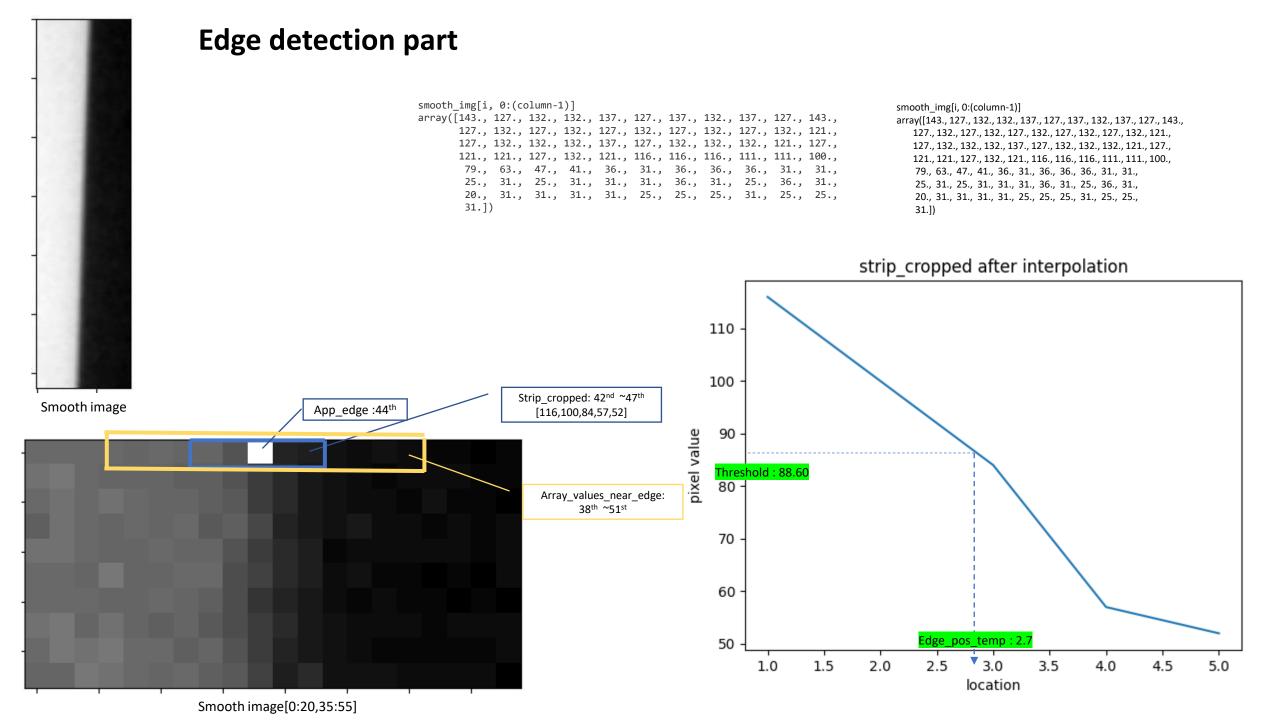


Result of Imatest



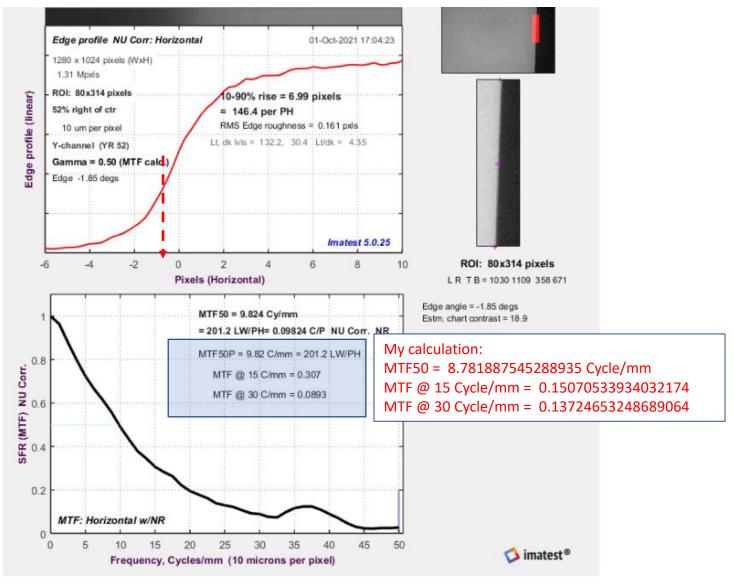
Improvement (modified):

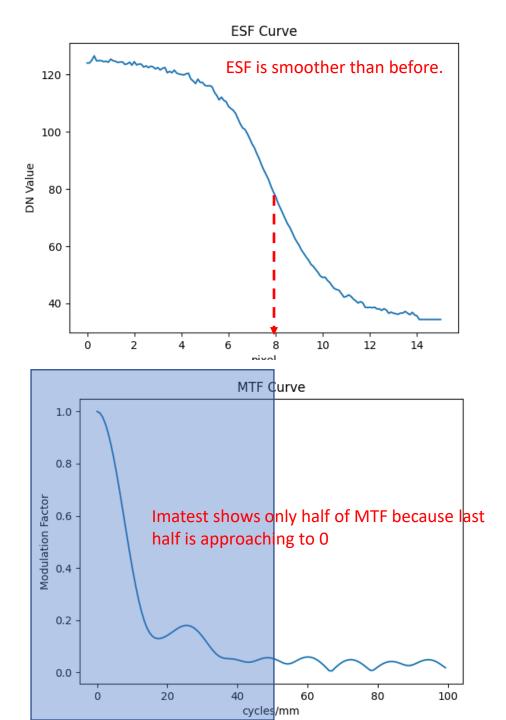
• Increase the contrast by normalization : change the smallest pixel value to 0, the highest value to 255



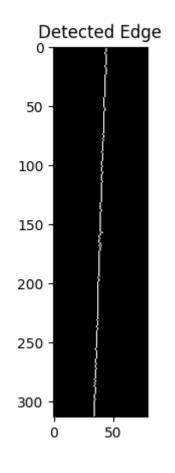
Future improvement: selecting x range of ESF

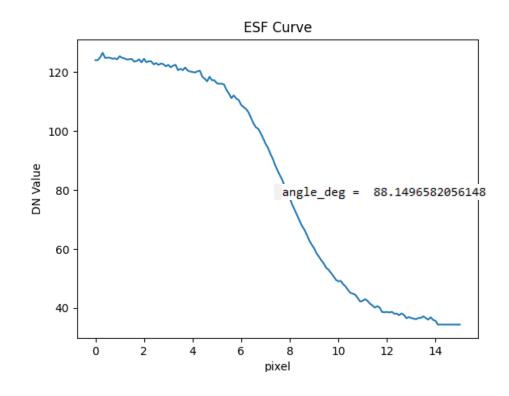
- We manually picked x range of the ESF so the center of the sloop is the center of x range.
- imatest selected x range based on the shape of curve. (don't know how it selected the range, but the right side is longer than the left side)

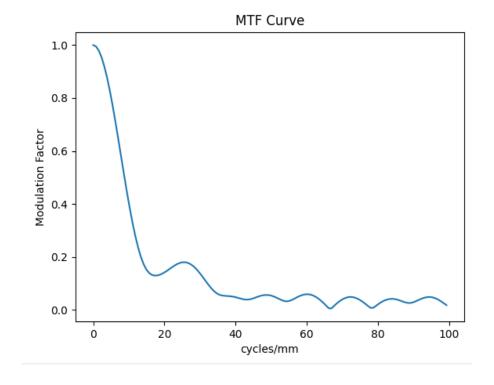




Result of MTF measurement







angle_deg = 88.1496582056148 MTF50 = 8.781887545288935 Cycle/mm MTF @ 15 Cycle/mm = 0.15070533934032174 MTF @ 30 Cvcle/mm = 0.13724653248689064