6/25/2018

Checked alignment to center of sample

Checked mirror angle in air

45 degree incident angle is 131.75 on dial, set values to default in order to save this calculation in LabVIEW

When switching to mineral oil, realized that cell/rotation stage were misaligned with sample rack, realigned everything.

Reset rotation stage angle and incident power

Set dial to 132 and redid mirror test in air

Test showed that 45 degree incident should be 134.25

Decided it was still misaligned, fixed it without taking everything apart

Did another power test

Did another mirror test (Only 0.5 degrees off by setting dial to 134, which means incident angle was within 0.25 degrees, which is pretty great accuracy)

So, used 134 dial for 45 degrees and 119 dial for 60 degrees

Did M18 turn at 45 degrees (3 tests at different sample positions, got wildly different specularnesses)

Same at 60

M18 skived 60

M18 skived 45

M18 polished 45

M18 polished 60

(Afternoon)

M17 turn 60

M17 turn 45

6/26/2018

NXT85 turn 45

NXT85 turn 60

807 NX turn 60

807 NX turn 45

Old sample 45

Old sample 60