RollLength

roll.py is production version; test\_roll.py contains tests

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| Major Action (aka “Procedure”) | Sub-Actions (aka function) | Atts populated or modified | Code Notes |
| RollLength class |  |  |  |
|  | \_\_init\_\_ | .diam\_core  .diam\_roll  .caliper  .file\_raw | Initialize RollLength class |
| CaliperFromRawData | **ReadRawData** | .df\_raw | Read |
| CaliperFromRawData | AddCalculatedRawCols | .df\_raw | Add ‘diam\_m’ and ‘diam\_m^2’ calculated columns to .df\_raw |
| CaliperFromRawData | **FitRawData** | .slope  .intercept  .R\_squared | Calculate slope, intercept, and R-squared attributes for raw data linear fit |
| CaliperFromRawData | CalculateCaliper | .caliper | Calculate the caliper attribute from the slope and convert to millimeters. Round the caliper to 4 decimal places. |
| CalculateLengthProcedure | CalculateLength | .length | Length calculation given caliper, diam and diam\_core inputs |
| PlotRawAndTransformedData | PlotRawAndTransformedData |  | Plot Length vs Diam and Diam^2 |
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