# Confidential
# In-House  ART Turbine Moving Platform Test Preliminary Analysis
# NOT FOR RELEASE
# Test Date Feb 3  2012 Jon and Drew  Data Analysis Feb 4 2012  By Drew

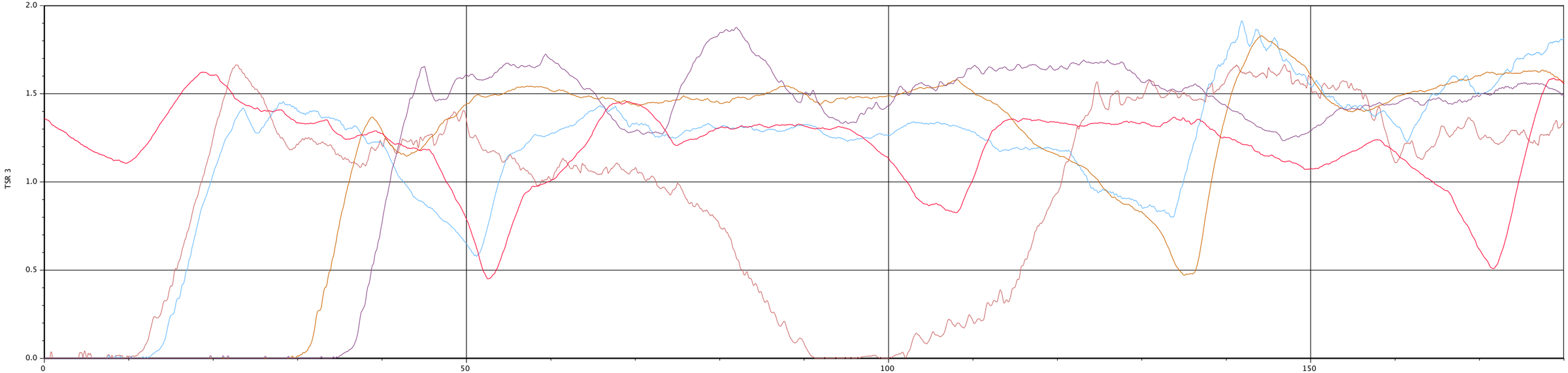
Turbine #16 base mounted 1m above Van roof racks, centre of turbine .75m in front of Van
Wind sensor on self aligning mount 6 ft in front of Van and 1m below Turbine, Rotary position sensor mounted on bottom of turbine output shaft, reading 360 steps per rotation of turbine, Load cell mounted on brake arm 1m aft of turbine rotation centre.  Load cell zero'ed in mount before test start.  All sensor data logged at 30 htz via Vernier passthrough to Laptop.

Tests Conducted on Cowichan Valley Highway by Jon and Drew from aprox 1pm to 5:30 pm

All equipment functioned within acceptable limits.  Improvements will be made to sensitivity of brake band adjustment for finer torque control and higher possible torque settings.  Lack of fine adjustment meant that Jon often felt like a slightly higher Cp could have been reached but found that the servo motor would easily over tighten the brake band, pulling down Cp.  This was true at all speeds, but most noticeable at the lower speeds in Run 1.  It's also worth noting that we were generating well over 2000W of heat at our higher speed runs, and the heat dissipation capacity of the system may be close.  We may not be able to exceed 18m/s without damaging the brake, unless we upgrade it.

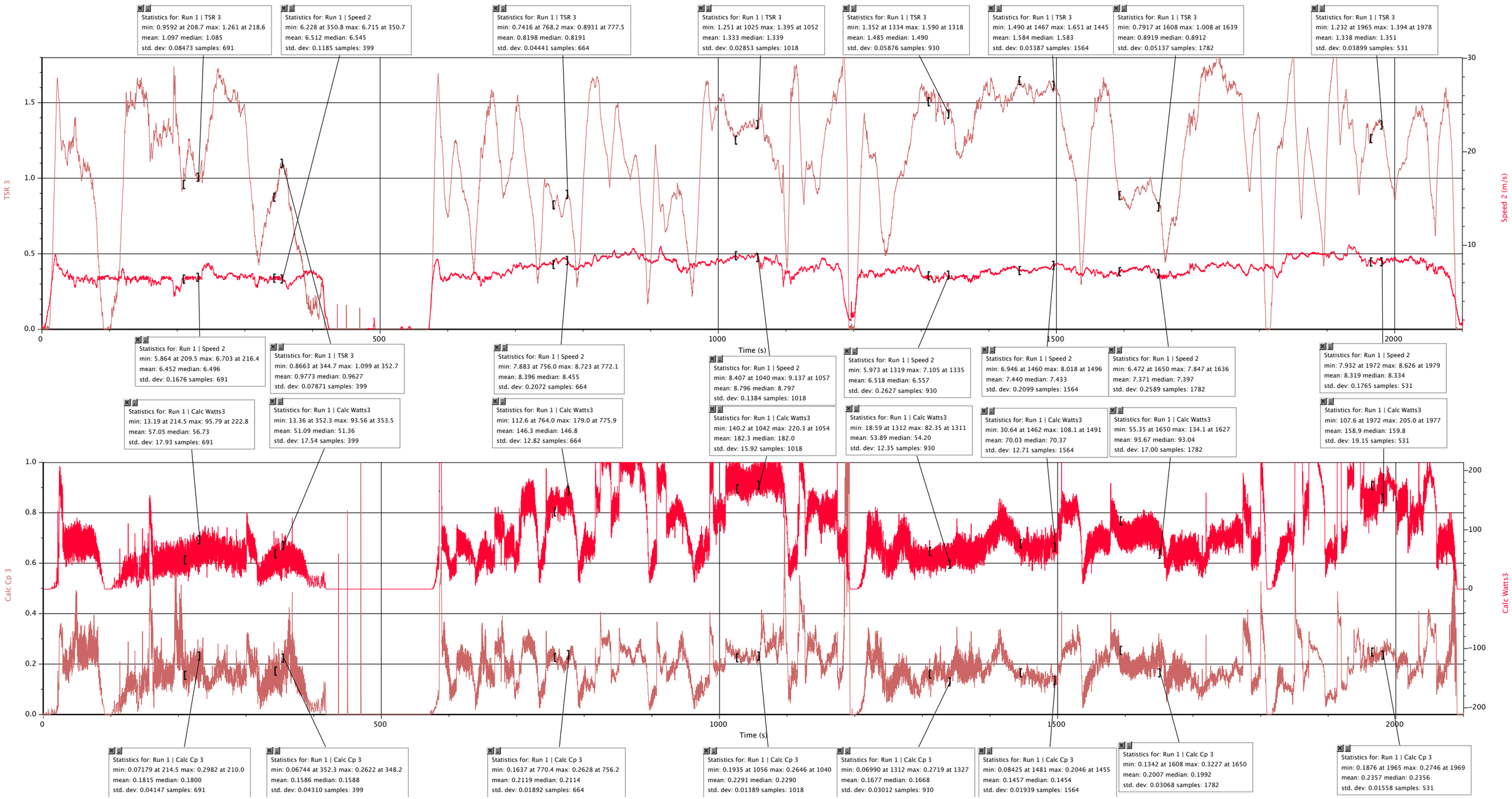
Turbine # 16 is 1m dia at base of blade (1.1m disk base) 2.25 m tall, and 1.8 sq m swept area.  TSR is calculated from blade base.

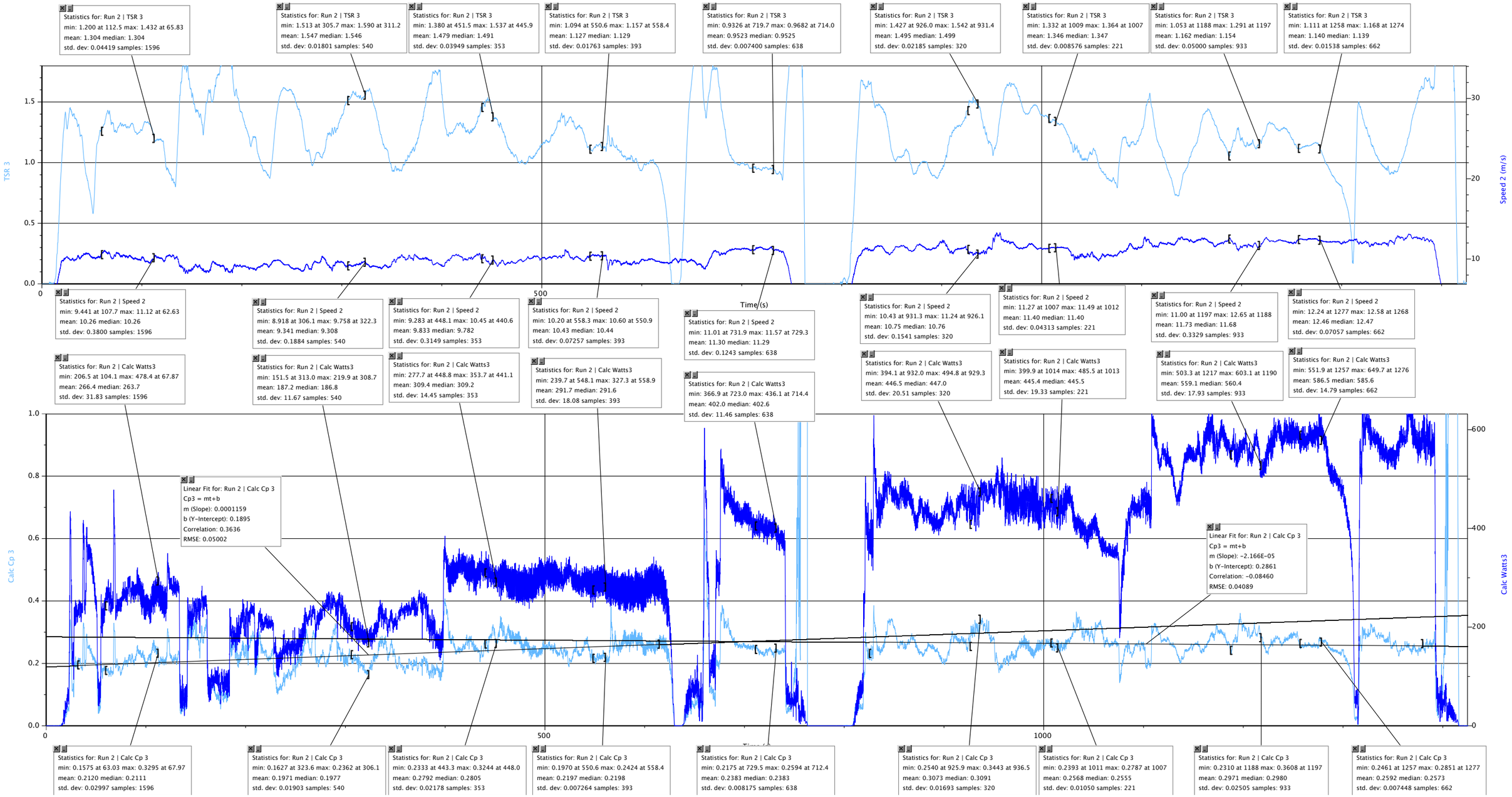
| | Run 2 | | Run 4 | | | | | | | | | Run 5 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TSR 3 | Calc Cp 3 | Time (s) | Speed 2 (m/s) | Force (N) | Angle (rad) | Velocity (rad/s) | Acceleration (rad/s²) | Calc Watts3 | Calc WW3 | TSR 3 | Calc Cp 3 | Time (s) | Speed 2 (m/s) | Force (N) | Angle (rad) | Velocity (rad/s) | Acceleration (rad/s²) | Calc Watts3 | Calc WW3 | TSR 3 | Calc Cp |
| 6020 | 1.387 | 0.234 | 200.631327 | 13.4 | 14.17 | -6280.15 | -41.437 | -1.18 | 681.042 | 2797.442 | 1.555 | 0.245 | 200.631327 | 13.4 | 20.40 | -6044.15 | -34.732 | -1.77 | 692.582 | 2835.923 | 1.295 | |
| 6021 | 1.385 | 0.228 | 200.664660 | 13.4 | 22.83 | -6281.53 | -41.568 | -1.76 | 691.139 | 2820.489 | 1.557 | 0.247 | 200.664660 | 13.4 | 17.76 | -6045.31 | -34.747 | 0.69 | 708.884 | 2820.489 | 1.294 | |
| 6022 | 1.385 | 0.221 | 200.697993 | 13.3 | 19.54 | -6282.92 | -41.612 | -0.65 | 702.028 | 2774.521 | 1.556 | 0.247 | 200.697993 | 13.3 | 20.19 | -6046.47 | -34.616 | 1.33 | 721.556 | 2766.909 | 1.295 | |
| 6023 | 1.382 | 0.214 | 200.731326 | 13.3 | 13.69 | -6284.30 | -41.612 | 0.65 | 693.022 | 2744.155 | 1.556 | 0.244 | 200.731326 | 13.3 | 21.55 | -6047.62 | -34.587 | -0.10 | 702.036 | 2782.147 | 1.295 | |
| 6024 | 1.381 | 0.212 | 200.764659 | 13.3 | 12.33 | -6285.70 | -41.568 | 1.76 | 670.214 | 2766.909 | 1.556 | 0.242 | 200.764659 | 13.4 | 23.01 | -6048.77 | -34.616 | -1.83 | 717.217 | 2820.489 | 1.297 | |
| 6025 | 1.378 | 0.212 | 200.797992 | 13.4 | 19.33 | -6287.08 | -41.437 | 1.16 | 655.149 | 2812.793 | 1.557 | 0.242 | 200.797992 | 13.4 | 19.66 | -6049.92 | -34.761 | -2.10 | 709.900 | 2828.199 | 1.298 | |
| 6026 | 1.376 | 0.216 | 200.831325 | 13.4 | 15.71 | -6288.46 | -41.437 | -0.76 | 637.842 | 2805.110 | 1.555 | 0.241 | 200.831325 | 13.4 | 17.61 | -6051.09 | -34.805 | -0.81 | 689.627 | 2812.793 | 1.297 | |
| 6027 | 1.376 | 0.220 | 200.864658 | 13.3 | 11.26 | -6289.84 | -41.554 | -1.09 | 668.153 | 2774.521 | 1.554 | 0.241 | 200.864658 | 13.3 | 24.16 | -6052.24 | -34.805 | 0.23 | 691.391 | 2766.909 | 1.298 | |
| 6028 | 1.376 | 0.223 | 200.897991 | 13.3 | 19.33 | -6291.23 | -41.568 | 0.12 | 705.976 | 2744.155 | 1.553 | 0.243 | 200.897991 | 13.4 | 16.54 | -6053.41 | -34.776 | 0.68 | 684.058 | 2789.788 | 1.298 | |
| 6029 | 1.376 | 0.227 | 200.931324 | 13.4 | 15.50 | -6292.61 | -41.481 | 0.00 | 695.465 | 2812.793 | 1.553 | 0.245 | 200.931324 | 13.4 | 16.15 | -6054.56 | -34.689 | -0.74 | 688.854 | 2843.662 | 1.299 | |
| 6030 | 1.375 | 0.230 | 200.964657 | 13.4 | 20.75 | -6293.99 | -41.568 | -0.12 | 678.335 | 2828.199 | 1.553 | 0.247 | 200.964657 | 13.4 | 22.71 | -6055.72 | -34.820 | -2.21 | 713.918 | 2843.662 | 1.299 | |
| 6031 | 1.375 | 0.235 | 200.997990 | 13.4 | 18.41 | -6295.39 | -41.554 | 1.09 | 705.683 | 2805.110 | 1.552 | 0.246 | 200.997990 | 13.4 | 22.35 | -6056.89 | -34.951 | -0.74 | 700.720 | 2835.923 | 1.299 | |
| 6032 | 1.374 | 0.241 | 201.031323 | 13.3 | 14.88 | -6296.76 | -41.437 | 0.76 | 689.794 | 2774.521 | 1.551 | 0.244 | 201.031323 | 13.4 | 20.13 | -6058.06 | -34.863 | 0.68 | 714.149 | 2789.788 | 1.298 | |
| 6033 | 1.374 | 0.247 | 201.064656 | 13.3 | 9.90 | -6298.14 | -41.437 | -1.16 | 671.008 | 2782.147 | 1.551 | 0.243 | 201.064656 | 13.4 | 22.12 | -6059.21 | -34.834 | 0.23 | 722.287 | 2812.793 | 1.300 | |
| 6034 | 1.372 | 0.251 | 201.097989 | 13.4 | 20.45 | -6299.52 | -41.568 | -1.77 | 673.027 | 2835.923 | 1.552 | 0.245 | 201.097989 | 13.4 | 18.29 | -6060.38 | -34.834 | -0.82 | 707.322 | 2835.923 | 1.302 | |
| 6035 | 1.372 | 0.255 | 201.131322 | 13.4 | 18.14 | -6300.92 | -41.612 | -0.74 | 672.216 | 2835.923 | 1.552 | 0.246 | 201.131322 | 13.5 | 20.22 | -6061.53 | -34.878 | -2.17 | 694.880 | 2859.181 | 1.303 | |
| 6036 | 1.370 | 0.256 | 201.164655 | 13.4 | 12.65 | -6302.30 | -41.612 | 0.23 | 693.908 | 2812.793 | 1.552 | 0.247 | 201.164655 | 13.4 | 19.30 | -6062.70 | -35.023 | -2.17 | 687.807 | 2828.199 | 1.304 | |
| 6037 | 1.368 | 0.257 | 201.197988 | 13.3 | 19.15 | -6303.69 | -41.583 | 0.61 | 734.830 | 2774.521 | 1.553 | 0.248 | 201.197988 | 13.3 | 20.28 | -6063.87 | -35.067 | -0.82 | 685.767 | 2774.521 | 1.304 | |
| 6038 | 1.365 | 0.256 | 201.231321 | 13.4 | 17.04 | -6305.07 | -41.496 | -1.07 | 712.737 | 2789.788 | 1.554 | 0.249 | 201.231321 | 13.4 | 19.12 | -6065.04 | -35.067 | 0.23 | 701.147 | 2812.793 | 1.306 | |
| 6039 | 1.364 | 0.256 | 201.264654 | 13.4 | 19.54 | -6306.45 | -41.641 | -2.86 | 687.338 | 2835.923 | 1.556 | 0.248 | 201.264654 | 13.4 | 18.56 | -6066.21 | -35.038 | 0.68 | 697.945 | 2835.923 | 1.308 | |
| 6040 | 1.361 | 0.254 | 201.297987 | 13.4 | 17.76 | -6307.85 | -41.801 | -1.50 | 690.422 | 2835.923 | 1.556 | 0.247 | 201.297987 | 13.4 | 21.41 | -6067.38 | -34.951 | -0.74 | 707.504 | 2843.662 | 1.309 | |
| 6041 | 1.361 | 0.256 | 201.331320 | 13.4 | 14.34 | -6309.24 | -41.801 | 1.41 | 684.700 | 2805.110 | 1.555 | 0.244 | 201.331320 | 13.4 | 22.38 | -6068.53 | -35.081 | -2.22 | 704.017 | 2828.199 | 1.308 | |
| 6042 | 1.361 | 0.256 | 201.364653 | 13.3 | 11.73 | -6310.64 | -41.641 | 2.45 | 672.314 | 2774.521 | 1.555 | 0.243 | 201.364653 | 13.3 | 18.29 | -6069.71 | -35.212 | -0.81 | 694.464 | 2774.521 | 1.309 | |
| 6043 | 1.362 | 0.257 | 201.397986 | 13.4 | 16.30 | -6312.02 | -41.510 | -0.01 | 679.253 | 2828.199 | 1.556 | 0.246 | 201.397986 | 13.4 | 20.72 | -6070.88 | -35.125 | 0.34 | 708.530 | 2805.110 | 1.310 | |
| 6044 | 1.362 | 0.258 | 201.431319 | 13.4 | 20.84 | -6313.40 | -41.641 | -2.52 | 690.262 | 2843.662 | 1.557 | 0.249 | 201.431319 | 13.4 | 18.70 | -6072.05 | -35.111 | -0.50 | 698.137 | 2843.662 | 1.313 | |
| 6045 | 1.362 | 0.260 | 201.464652 | 13.4 | 14.91 | -6314.79 | -41.801 | -1.75 | 708.281 | 2828.199 | 1.556 | 0.249 | 201.464652 | 13.4 | 17.67 | -6073.22 | -35.140 | -1.92 | 690.405 | 2835.923 | 1.314 | |
| 6046 | 1.361 | 0.262 | 201.497985 | 13.4 | 18.97 | -6316.19 | -41.816 | 0.78 | 737.568 | 2789.788 | 1.555 | 0.249 | 201.497985 | 13.4 | 23.33 | -6074.39 | -35.285 | -2.11 | 708.951 | 2812.793 | 1.315 | |
| 6047 | 1.361 | 0.267 | 201.531318 | 13.3 | 17.13 | -6317.59 | -41.685 | 1.76 | 724.816 | 2774.521 | 1.554 | 0.248 | 201.531318 | 13.3 | 18.85 | -6075.58 | -35.329 | -0.80 | 703.822 | 2774.521 | 1.315 | |
| 6048 | 1.361 | 0.270 | 201.564651 | 13.4 | 17.82 | -6318.96 | -41.641 | 1.05 | 673.935 | 2843.662 | 1.554 | 0.245 | 201.564651 | 13.4 | 19.63 | -6076.75 | -35.329 | 0.30 | 717.514 | 2805.110 | 1.316 | |
| 6049 | 1.359 | 0.273 | 201.597984 | 13.5 | 17.76 | -6320.36 | -41.627 | 0.41 | 668.945 | 2866.475 | 1.552 | 0.241 | 201.597984 | 13.4 | 21.85 | -6077.93 | -35.300 | 1.02 | 718.792 | 2835.923 | 1.318 | |
| 6050 | 1.359 | 0.276 | 201.631317 | 13.4 | 13.96 | -6321.74 | -41.627 | 0.07 | 665.115 | 2843.662 | 1.550 | 0.238 | 201.631317 | 13.4 | 19.12 | -6079.10 | -35.198 | 0.00 | 700.342 | 2835.923 | 1.318 | |
| 6051 | 1.358 | 0.277 | 201.664650 | 13.4 | 9.95 | -6323.14 | -41.627 | -0.06 | 653.031 | 2812.793 | 1.549 | 0.236 | 201.664650 | 13.4 | 22.00 | -6080.27 | -35.300 | -1.03 | 701.314 | 2812.793 | 1.318 | |
| 6052 | 1.356 | 0.279 | 201.697983 | 13.4 | 16.95 | -6324.51 | -41.627 | -0.34 | 671.751 | 2828.199 | 1.549 | 0.238 | 201.697983 | 13.3 | 17.64 | -6081.46 | -35.329 | -0.39 | 699.124 | 2774.521 | 1.317 | |
| 6053 | 1.353 | 0.278 | 201.731316 | 13.5 | 21.17 | -6325.91 | -41.641 | -0.74 | 679.796 | 2859.181 | 1.551 | 0.241 | 201.731316 | 13.4 | 18.88 | -6082.63 | -35.329 | 0.39 | 693.883 | 2789.788 | 1.318 | |
| 6054 | 1.352 | 0.274 | 201.764649 | 13.5 | 14.82 | -6327.29 | -41.670 | -1.19 | 694.989 | 2859.181 | 1.551 | 0.241 | 201.764649 | 13.4 | 19.63 | -6083.82 | -35.300 | 1.03 | 707.440 | 2820.489 | 1.319 | |
| 6055 | 1.350 | 0.266 | 201.797982 | 13.4 | 19.09 | -6328.69 | -41.772 | -0.41 | 712.871 | 2828.199 | 1.552 | 0.241 | 201.797982 | 13.4 | 20.81 | -6084.99 | -35.198 | -0.01 | 702.308 | 2828.199 | 1.319 | |
| 6056 | 1.350 | 0.257 | 201.831315 | 13.4 | 15.95 | -6330.08 | -41.685 | 0.04 | 702.699 | 2797.442 | 1.552 | 0.240 | 201.831315 | 13.4 | 20.34 | -6086.16 | -35.300 | -1.10 | 722.987 | 2820.489 | 1.320 | |
| 6057 | 1.348 | 0.243 | 201.864648 | 13.5 | 16.84 | -6331.46 | -41.699 | -1.12 | 657.845 | 2851.414 | 1.554 | 0.237 | 201.864648 | 13.3 | 22.06 | -6087.34 | -35.329 | -0.73 | 722.312 | 2766.909 | 1.321 | |
| 6058 | 1.349 | 0.229 | 201.897981 | 13.5 | 14.11 | -6332.86 | -41.816 | -0.85 | 647.796 | 2866.475 | 1.554 | 0.235 | 201.897981 | 13.3 | 18.88 | -6088.51 | -35.343 | -0.34 | 707.217 | 2774.521 | 1.322 | |
| 6059 | 1.349 | 0.216 | 201.931314 | 13.4 | 16.66 | -6334.25 | -41.816 | 0.75 | 650.725 | 2835.923 | 1.554 | 0.233 | 201.931314 | 13.3 | 22.53 | -6089.70 | -35.343 | -0.07 | 706.865 | 2774.521 | 1.324 | |
| 6060 | 1.348 | 0.210 | 201.964647 | 13.4 | 11.73 | -6335.65 | -41.699 | 0.69 | 644.043 | 2805.110 | 1.554 | 0.232 | 201.964647 | 13.4 | 17.99 | -6090.87 | -35.343 | -0.02 | 704.060 | 2805.110 | 1.326 | |
| 6061 | 1.346 | 0.212 | 201.997980 | 13.4 | 14.91 | -6337.03 | -41.699 | -1.19 | 659.879 | 2828.199 | 1.555 | 0.235 | 201.997980 | 13.4 | 16.57 | -6092.05 | -35.343 | -0.07 | 688.405 | 2789.788 | 1.326 | |
| 6062 | 1.346 | 0.219 | 202.031313 | 13.5 | 20.60 | -6338.42 | -41.830 | -1.84 | 680.901 | 2859.181 | 1.557 | 0.238 | 202.031313 | 13.3 | 21.67 | -6093.22 | -35.343 | -0.33 | 699.525 | 2729.056 | 1.328 | |
| 6063 | 1.345 | 0.229 | 202.064646 | 13.5 | 14.49 | -6339.82 | -41.874 | -1.07 | 684.951 | 2866.475 | 1.558 | 0.239 | 202.064646 | 13.3 | 21.38 | -6094.41 | -35.358 | -0.65 | 697.559 | 2729.056 | 1.328 | |
| 6064 | 1.345 | 0.240 | 202.097979 | 13.4 | 18.38 | -6341.22 | -41.888 | -0.41 | 705.081 | 2828.199 | 1.558 | 0.239 | 202.097979 | 13.3 | 17.88 | -6095.58 | -35.387 | -0.78 | 709.565 | 2766.909 | 1.329 | |
| 6065 | 1.345 | 0.249 | 202.131312 | 13.4 | 16.15 | -6342.61 | -41.888 | -0.07 | 695.521 | 2789.788 | 1.559 | 0.237 | 202.131312 | 13.3 | 20.75 | -6096.77 | -35.474 | 0.64 | 720.934 | 2774.521 | 1.330 | |
| 6066 | 1.344 | 0.254 | 202.164645 | 13.4 | 17.04 | -6344.01 | -41.888 | 0.06 | 644.393 | 2828.199 | 1.559 | 0.234 | 202.164645 | 13.3 | 21.05 | -6097.95 | -35.343 | 1.79 | 711.208 | 2766.909 | 1.330 | |
| 6067 | 1.344 | 0.255 | 202.197978 | 13.5 | 15.71 | -6345.41 | -41.888 | 0.33 | 637.057 | 2859.181 | 1.559 | 0.232 | 202.197978 | 13.2 | 21.17 | -6099.12 | -35.227 | -0.34 | 708.816 | 2714.012 | 1.330 | |
| 6068 | 1.341 | 0.254 | 202.231311 | 13.5 | 13.87 | -6346.80 | -41.874 | 0.65 | 642.828 | 2851.414 | 1.559 | 0.230 | 202.231311 | 13.3 | 19.03 | -6100.29 | -35.358 | -2.61 | 712.423 | 2744.155 | 1.331 | |
| 6069 | 1.340 | 0.251 | 202.264644 | 13.4 | 9.90 | -6348.20 | -41.845 | 0.78 | 637.042 | 2820.489 | 1.558 | 0.230 | 202.264644 | 13.3 | 18.76 | -6101.48 | -35.518 | -1.84 | 705.175 | 2766.909 | 1.332 | |
| 6070 | 1.337 | 0.247 | 202.297977 | 13.4 | 15.95 | -6349.60 | -41.757 | -0.65 | 656.459 | 2812.793 | 1.557 | 0.234 | 202.297977 | 13.3 | 20.84 | -6102.67 | -35.532 | 0.35 | 718.011 | 2766.909 | 1.334 | |
| 6071 | 1.337 | 0.240 | 202.331310 | 13.5 | 21.97 | -6350.97 | -41.888 | -1.88 | 674.851 | 2859.181 | 1.557 | 0.239 | 202.331310 | 13.3 | 19.83 | -6103.85 | -35.416 | 0.61 | 710.654 | 2744.155 | 1.336 | |
| 6072 | 1.336 | 0.229 | 202.364643 | 13.5 | 14.55 | -6352.39 | -42.005 | -0.07 | 695.152 | 2866.475 | 1.558 | 0.242 | 202.364643 | 13.2 | 19.27 | -6105.02 | -35.416 | -1.20 | 728.987 | 2706.979 | 1.337 | |
| 6073 | 1.337 | 0.218 | 202.397976 | 13.5 | 18.08 | -6353.78 | -41.888 | 1.53 | 729.285 | 2851.414 | 1.557 | 0.244 | 202.397976 | 13.2 | 23.98 | -6106.21 | -35.547 | -1.84 | 738.578 | 2721.527 | 1.338 | |
| 6074 | 1.336 | 0.207 | 202.431309 | 13.4 | 16.07 | -6355.18 | -41.772 | -0.07 | 720.646 | 2828.199 | 1.557 | 0.244 | 202.431309 | 13.3 | 17.93 | -6107.40 | -35.591 | -1.07 | 714.935 | 2744.155 | 1.339 | |

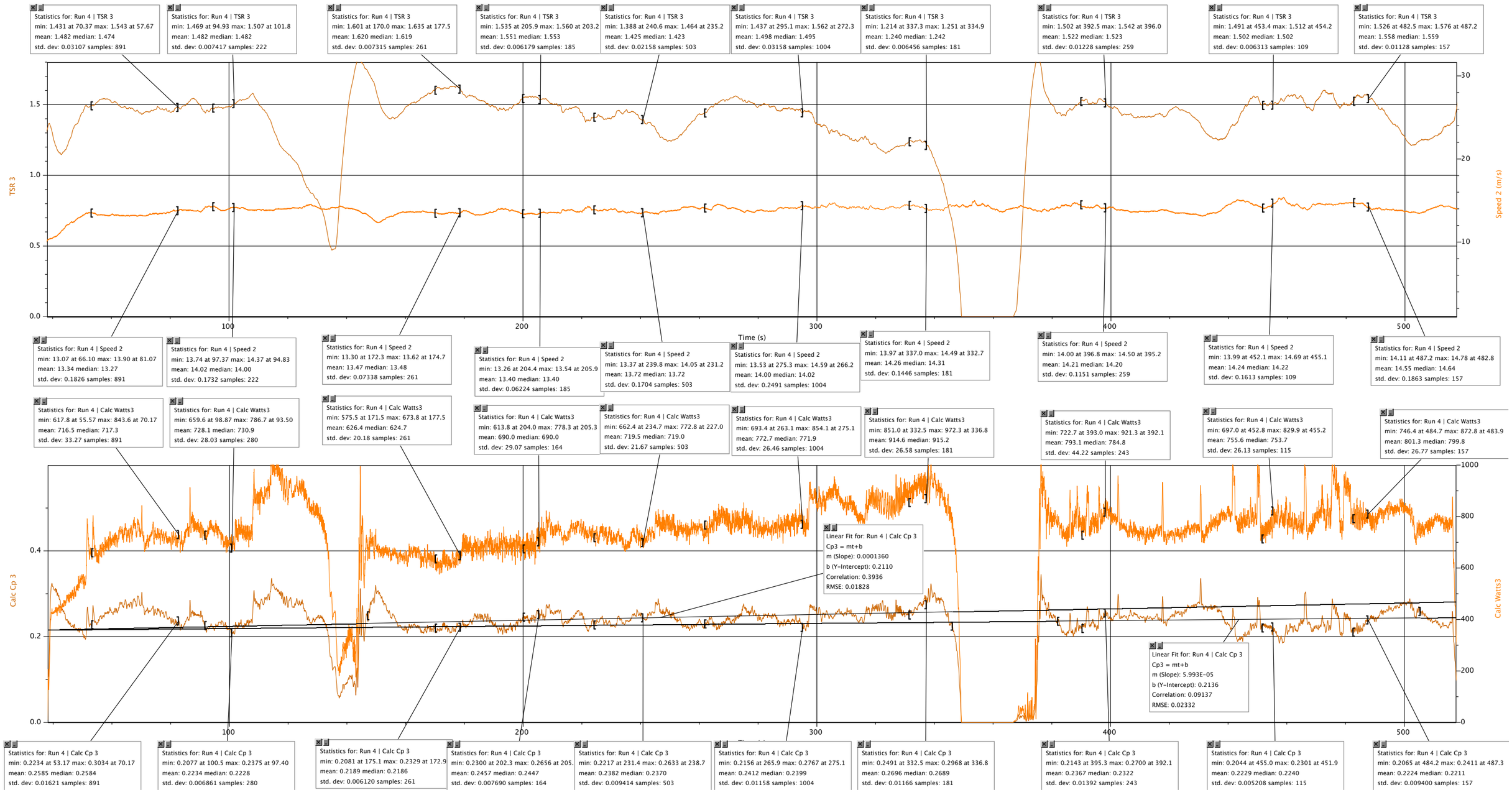


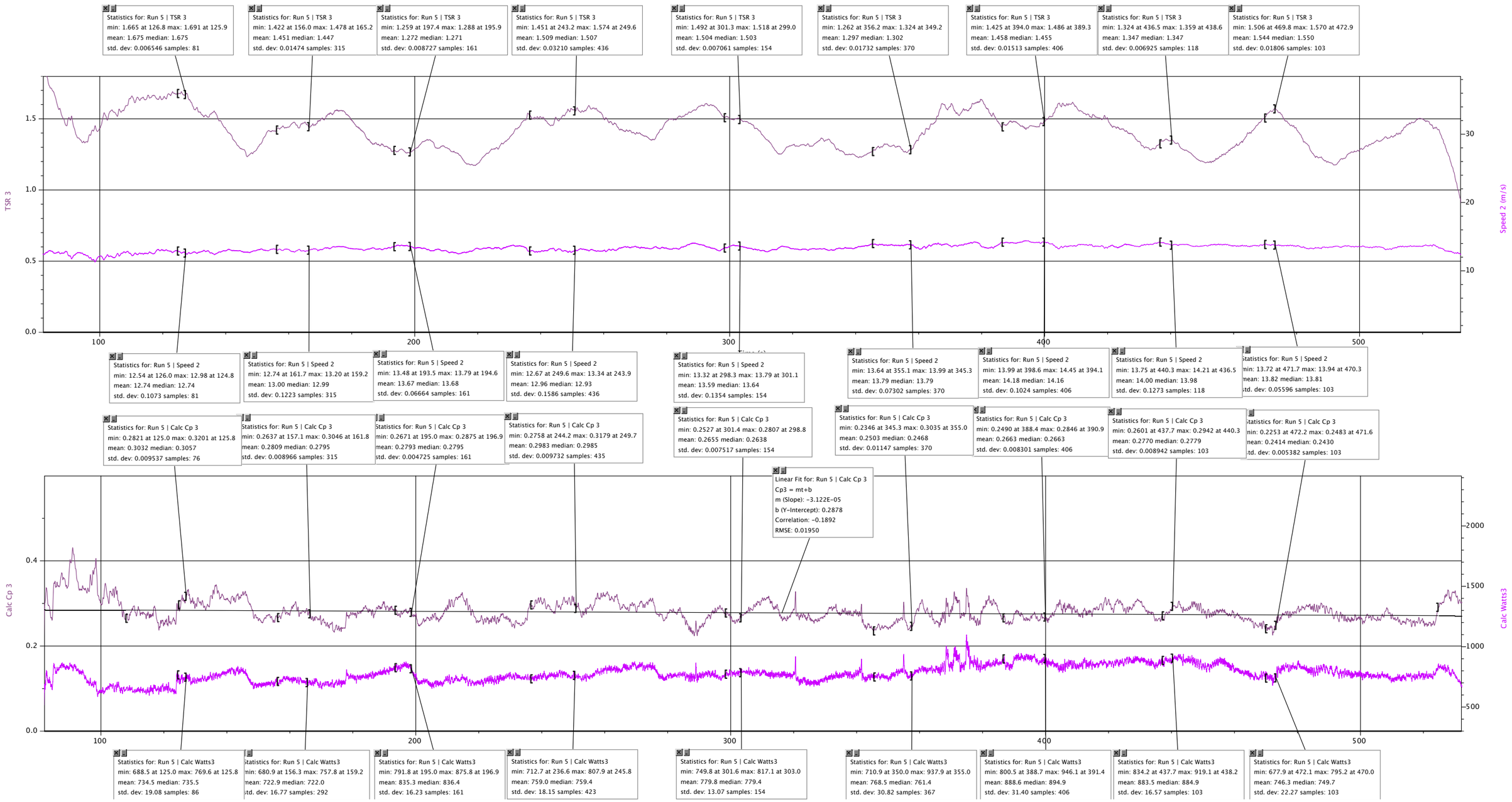


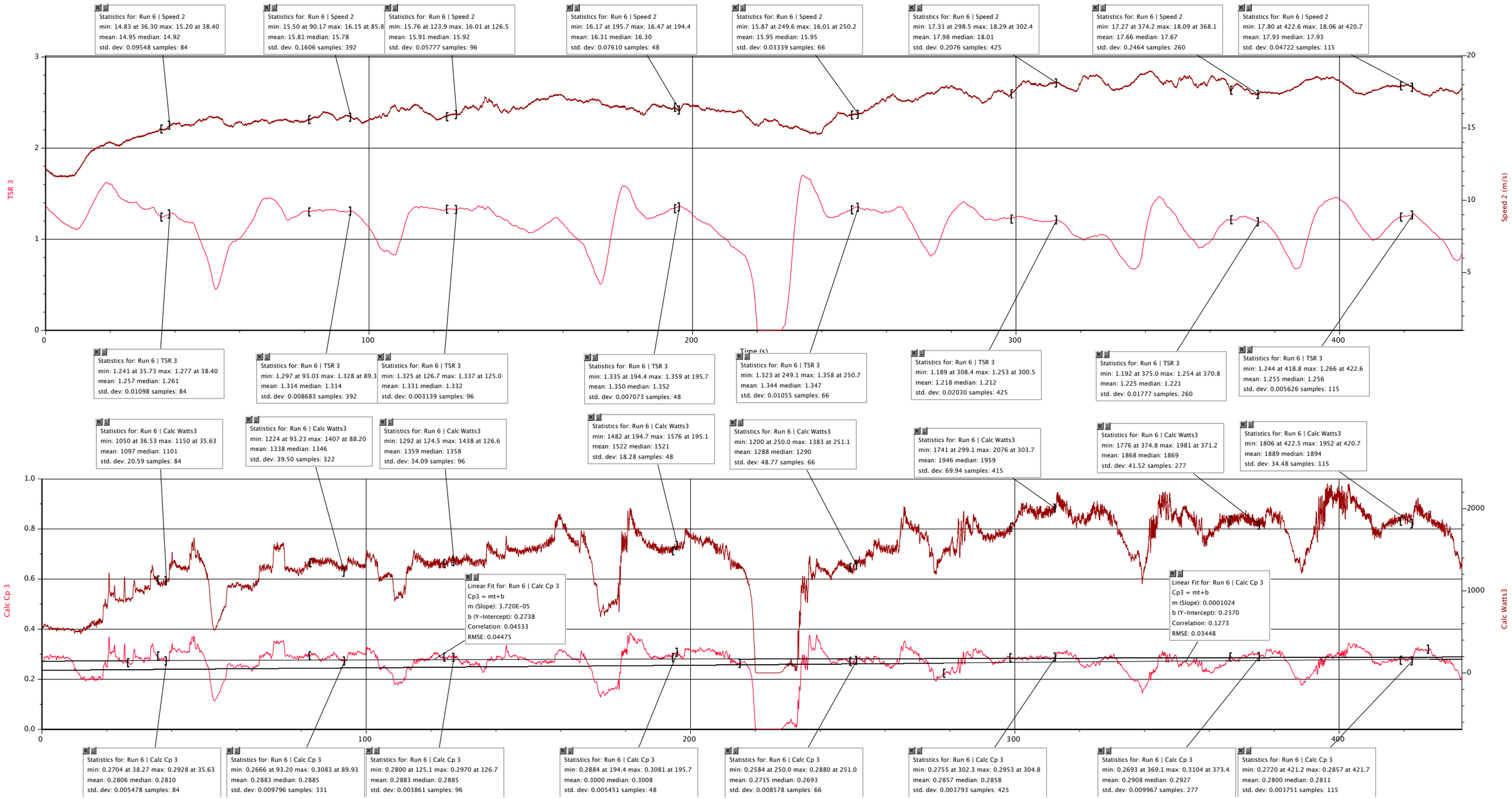
Drew Rokeby Thomas  ART Turbine Feb 2012 Cow Valley Moving Platform Test  Run 2 TSR Cp  (3)  2/7/12 2:12 PM  Cow Valley 2012 day 1 draft report


Statistics for: Run 1 | TSR 3
min: 0.9592 at 208.7 max: 1.261 at 218.6
mean: 1.097 median: 1.085
std. dev: 0.08473 samples: 691
Statistics for: Run 1 | Speed 2
min: 6.228 at 350.8 max: 6.715 at 350.7
mean: 6.512 median: 6.545
std. dev: 0.1185 samples: 399
Statistics for: Run 1 | TSR 3
min: 0.7416 at 768.2 max: 0.8931 at 777.5
mean: 0.8198 median: 0.8191
std. dev: 0.04441 samples: 664
Statistics for: Run 1 | TSR 3
min: 1.251 at 1025 max: 1.395 at 1052
mean: 1.333 median: 1.339
std. dev: 0.02853 samples: 1018
Statistics for: Run 1 | TSR 3
min: 1.352 at 1334 max: 1.590 at 1318
mean: 1.485 median: 1.490
std. dev: 0.05876 samples: 930
Statistics for: Run 1 | TSR 3
min: 1.490 at 1467 max: 1.651 at 1445
mean: 1.584 median: 1.583
std. dev: 0.03387 samples: 1564
Statistics for: Run 1 | TSR 3
min: 0.7917 at 1608 max: 1.008 at 1639
mean: 0.8919 median: 0.8912
std. dev: 0.05137 samples: 1782
Statistics for: Run 1 | TSR 3
min: 1.232 at 1965 max: 1.394 at 1978
mean: 1.338 median: 1.351
std. dev: 0.03899 samples: 531
TSR 3
Speed 2 (m/s)
0.0
0.5
1.0
1.5
10
20
30
0
500
1000
1500
2000
Time (s)
Statistics for: Run 1 | Speed 2
min: 5.864 at 209.5 max: 6.703 at 216.4
mean: 6.452 median: 6.496
std. dev: 0.1676 samples: 691
Statistics for: Run 1 | TSR 3
min: 0.8663 at 344.7 max: 1.099 at 352.7
mean: 0.9773 median: 0.9627
std. dev: 0.07871 samples: 399
Statistics for: Run 1 | Speed 2
min: 7.883 at 756.0 max: 8.723 at 772.1
mean: 8.396 median: 8.455
std. dev: 0.2072 samples: 664
Statistics for: Run 1 | Speed 2
min: 8.407 at 1040 max: 9.137 at 1057
mean: 8.796 median: 8.797
std. dev: 0.1384 samples: 1018
Statistics for: Run 1 | Speed 2
min: 5.973 at 1319 max: 7.105 at 1335
mean: 6.518 median: 6.557
std. dev: 0.2627 samples: 930
Statistics for: Run 1 | Speed 2
min: 6.946 at 1460 max: 8.018 at 1496
mean: 7.440 median: 7.433
std. dev: 0.2099 samples: 1564
Statistics for: Run 1 | Speed 2
min: 6.472 at 1650 max: 7.847 at 1636
mean: 7.371 median: 7.397
std. dev: 0.2589 samples: 1782
Statistics for: Run 1 | Speed 2
min: 7.932 at 1972 max: 8.626 at 1979
mean: 8.319 median: 8.334
std. dev: 0.1765 samples: 531
Statistics for: Run 1 | Calc Watts3
min: 13.19 at 214.5 max: 95.79 at 222.8
mean: 57.05 median: 56.73
std. dev: 17.93 samples: 691
Statistics for: Run 1 | Calc Watts3
min: 13.36 at 352.3 max: 93.56 at 353.5
mean: 51.09 median: 51.36
std. dev: 17.54 samples: 399
Statistics for: Run 1 | Calc Watts3
min: 112.6 at 764.0 max: 179.0 at 775.9
mean: 146.3 median: 146.8
std. dev: 12.82 samples: 664
Statistics for: Run 1 | Calc Watts3
min: 140.2 at 1042 max: 220.3 at 1054
mean: 182.3 median: 182.0
std. dev: 15.92 samples: 1018
Statistics for: Run 1 | Calc Watts3
min: 18.59 at 1312 max: 82.35 at 1311
mean: 53.89 median: 54.20
std. dev: 12.35 samples: 930
Statistics for: Run 1 | Calc Watts3
min: 30.64 at 1462 max: 108.1 at 1491
mean: 70.03 median: 70.37
std. dev: 12.71 samples: 1564
Statistics for: Run 1 | Calc Watts3
min: 55.35 at 1650 max: 134.1 at 1627
mean: 93.67 median: 93.04
std. dev: 17.00 samples: 1782
Statistics for: Run 1 | Calc Watts3
min: 107.6 at 1972 max: 205.0 at 1977
mean: 158.9 median: 159.8
std. dev: 19.15 samples: 531
Calc Cp 3
Calc Watts3
0.0
0.2
0.4
0.6
0.8
1.0
−200
−100
0
100
200
0
500
1000
1500
2000
Time (s)
Statistics for: Run 1 | Calc Cp 3
min: 0.07179 at 214.5 max: 0.2982 at 210.0
mean: 0.1815 median: 0.1800
std. dev: 0.04147 samples: 691
Statistics for: Run 1 | Calc Cp 3
min: 0.06744 at 352.3 max: 0.2622 at 348.2
mean: 0.1586 median: 0.1588
std. dev: 0.04310 samples: 399
Statistics for: Run 1 | Calc Cp 3
min: 0.1637 at 770.4 max: 0.2628 at 756.2
mean: 0.2119 median: 0.2114
std. dev: 0.01892 samples: 664
Statistics for: Run 1 | Calc Cp 3
min: 0.1935 at 1056 max: 0.2646 at 1040
mean: 0.2291 median: 0.2290
std. dev: 0.01389 samples: 1018
Statistics for: Run 1 | Calc Cp 3
min: 0.06990 at 1312 max: 0.2719 at 1327
mean: 0.1677 median: 0.1668
std. dev: 0.03012 samples: 930
Statistics for: Run 1 | Calc Cp 3
min: 0.08425 at 1481 max: 0.2046 at 1455
mean: 0.1457 median: 0.1454
std. dev: 0.01939 samples: 1564
Statistics for: Run 1 | Calc Cp 3
min: 0.1342 at 1608 max: 0.3227 at 1650
mean: 0.2007 median: 0.1992
std. dev: 0.03068 samples: 1782
Statistics for: Run 1 | Calc Cp 3
min: 0.1876 at 1965 max: 0.2746 at 1969
mean: 0.2357 median: 0.2356
std. dev: 0.01558 samples: 531


Statistics for: Run 2 | TSR 3
min: 1.200 at 112.5 max: 1.432 at 65.83
mean: 1.304 median: 1.304
std. dev: 0.04419 samples: 1596
Statistics for: Run 2 | TSR 3
min: 1.513 at 305.7 max: 1.590 at 311.2
mean: 1.547 median: 1.546
std. dev: 0.01801 samples: 540
Statistics for: Run 2 | TSR 3
min: 1.380 at 451.5 max: 1.537 at 445.9
mean: 1.479 median: 1.491
std. dev: 0.03949 samples: 353
Statistics for: Run 2 | TSR 3
min: 1.094 at 550.6 max: 1.157 at 558.4
mean: 1.127 median: 1.129
std. dev: 0.01763 samples: 393
Statistics for: Run 2 | TSR 3
min: 0.9326 at 719.7 max: 0.9682 at 714.0
mean: 0.9523 median: 0.9525
std. dev: 0.007400 samples: 638
Statistics for: Run 2 | TSR 3
min: 1.427 at 926.0 max: 1.542 at 931.4
mean: 1.495 median: 1.499
std. dev: 0.02185 samples: 320
Statistics for: Run 2 | TSR 3
min: 1.332 at 1009 max: 1.364 at 1007
mean: 1.346 median: 1.347
std. dev: 0.008576 samples: 221
Statistics for: Run 2 | TSR 3
min: 1.053 at 1188 max: 1.291 at 1197
mean: 1.162 median: 1.154
std. dev: 0.05000 samples: 933
Statistics for: Run 2 | TSR 3
min: 1.111 at 1258 max: 1.168 at 1274
mean: 1.140 median: 1.139
std. dev: 0.01538 samples: 662
TSR 3
Speed 2 (m/s)
Time (s)
Statistics for: Run 2 | Speed 2
min: 9.441 at 107.7 max: 11.12 at 62.63
mean: 10.26 median: 10.26
std. dev: 0.3800 samples: 1596
Statistics for: Run 2 | Speed 2
min: 8.918 at 306.1 max: 9.758 at 322.3
mean: 9.341 median: 9.308
std. dev: 0.1884 samples: 540
Statistics for: Run 2 | Speed 2
min: 9.283 at 448.1 max: 10.45 at 440.6
mean: 9.833 median: 9.782
std. dev: 0.3149 samples: 353
Statistics for: Run 2 | Speed 2
min: 10.20 at 558.3 max: 10.60 at 550.9
mean: 10.43 median: 10.44
std. dev: 0.07257 samples: 393
Statistics for: Run 2 | Speed 2
min: 11.01 at 731.9 max: 11.57 at 729.3
mean: 11.30 median: 11.29
std. dev: 0.1243 samples: 638
Statistics for: Run 2 | Speed 2
min: 10.43 at 931.3 max: 11.24 at 926.1
mean: 10.75 median: 10.76
std. dev: 0.1541 samples: 320
Statistics for: Run 2 | Speed 2
min: 11.27 at 1007 max: 11.49 at 1012
mean: 11.40 median: 11.40
std. dev: 0.04313 samples: 221
Statistics for: Run 2 | Speed 2
min: 11.00 at 1197 max: 12.65 at 1188
mean: 11.73 median: 11.68
std. dev: 0.3329 samples: 933
Statistics for: Run 2 | Speed 2
min: 12.24 at 1277 max: 12.58 at 1268
mean: 12.46 median: 12.47
std. dev: 0.07057 samples: 662
Statistics for: Run 2 | Calc Watts3
min: 206.5 at 104.1 max: 478.4 at 67.87
mean: 266.4 median: 263.7
std. dev: 31.83 samples: 1596
Statistics for: Run 2 | Calc Watts3
min: 151.5 at 313.0 max: 219.9 at 308.7
mean: 187.2 median: 186.8
std. dev: 11.67 samples: 540
Statistics for: Run 2 | Calc Watts3
min: 277.7 at 448.8 max: 353.7 at 441.1
mean: 309.4 median: 309.2
std. dev: 14.45 samples: 353
Statistics for: Run 2 | Calc Watts3
min: 239.7 at 548.1 max: 327.3 at 558.9
mean: 291.7 median: 291.6
std. dev: 18.08 samples: 393
Statistics for: Run 2 | Calc Watts3
min: 366.9 at 723.0 max: 436.1 at 714.4
mean: 402.0 median: 402.6
std. dev: 11.46 samples: 638
Statistics for: Run 2 | Calc Watts3
min: 394.1 at 932.0 max: 494.8 at 929.3
mean: 446.5 median: 447.0
std. dev: 20.51 samples: 320
Statistics for: Run 2 | Calc Watts3
min: 399.9 at 1014 max: 485.5 at 1013
mean: 445.4 median: 445.5
std. dev: 19.33 samples: 221
Statistics for: Run 2 | Calc Watts3
min: 503.3 at 1217 max: 603.1 at 1190
mean: 559.1 median: 560.4
std. dev: 17.93 samples: 933
Statistics for: Run 2 | Calc Watts3
min: 551.9 at 1257 max: 649.7 at 1276
mean: 586.5 median: 585.6
std. dev: 14.79 samples: 662
Calc Cp 3
Calc Watts3
Linear Fit for: Run 2 | Calc Cp 3
Cp3 = mt+b
m (Slope): 0.0001159
b (Y-Intercept): 0.1895
Correlation: 0.3636
RMSE: 0.05002
Linear Fit for: Run 2 | Calc Cp 3
Cp3 = mt+b
m (Slope): -2.166E-05
b (Y-Intercept): 0.2861
Correlation: -0.08460
RMSE: 0.04089
Statistics for: Run 2 | Calc Cp 3
min: 0.1575 at 63.03 max: 0.3295 at 67.97
mean: 0.2120 median: 0.2111
std. dev: 0.02997 samples: 1596
Statistics for: Run 2 | Calc Cp 3
min: 0.1627 at 323.6 max: 0.2362 at 306.1
mean: 0.1971 median: 0.1977
std. dev: 0.01903 samples: 540
Statistics for: Run 2 | Calc Cp 3
min: 0.2333 at 443.3 max: 0.3244 at 448.0
mean: 0.2792 median: 0.2805
std. dev: 0.02178 samples: 353
Statistics for: Run 2 | Calc Cp 3
min: 0.1970 at 550.6 max: 0.2424 at 558.4
mean: 0.2197 median: 0.2198
std. dev: 0.007264 samples: 393
Statistics for: Run 2 | Calc Cp 3
min: 0.2175 at 729.5 max: 0.2594 at 712.4
mean: 0.2383 median: 0.2383
std. dev: 0.008175 samples: 638
Statistics for: Run 2 | Calc Cp 3
min: 0.2540 at 925.9 max: 0.3443 at 936.5
mean: 0.3073 median: 0.3091
std. dev: 0.01693 samples: 320
Statistics for: Run 2 | Calc Cp 3
min: 0.2393 at 1011 max: 0.2787 at 1007
mean: 0.2568 median: 0.2555
std. dev: 0.01050 samples: 221
Statistics for: Run 2 | Calc Cp 3
min: 0.2310 at 1188 max: 0.3608 at 1197
mean: 0.2971 median: 0.2980
std. dev: 0.02505 samples: 933
Statistics for: Run 2 | Calc Cp 3
min: 0.2461 at 1257 max: 0.2851 at 1277
mean: 0.2592 median: 0.2573
std. dev: 0.007448 samples: 662


Statistics for: Run 4 | TSR 3
min: 1.431 at 70.37 max: 1.543 at 57.67
mean: 1.482 median: 1.474
std. dev: 0.03107 samples: 891
Statistics for: Run 4 | TSR 3
min: 1.469 at 94.93 max: 1.507 at 101.8
mean: 1.482 median: 1.482
std. dev: 0.007417 samples: 222
Statistics for: Run 4 | TSR 3
min: 1.601 at 170.0 max: 1.635 at 177.5
mean: 1.620 median: 1.619
std. dev: 0.007315 samples: 261
Statistics for: Run 4 | TSR 3
min: 1.535 at 205.9 max: 1.560 at 203.2
mean: 1.551 median: 1.553
std. dev: 0.006179 samples: 185
Statistics for: Run 4 | TSR 3
min: 1.388 at 240.6 max: 1.464 at 235.2
mean: 1.425 median: 1.423
std. dev: 0.02158 samples: 503
Statistics for: Run 4 | TSR 3
min: 1.437 at 295.1 max: 1.562 at 272.3
mean: 1.498 median: 1.495
std. dev: 0.03158 samples: 1004
Statistics for: Run 4 | TSR 3
min: 1.214 at 337.3 max: 1.251 at 334.9
mean: 1.240 median: 1.242
std. dev: 0.006456 samples: 181
Statistics for: Run 4 | TSR 3
min: 1.502 at 392.5 max: 1.542 at 396.0
mean: 1.522 median: 1.523
std. dev: 0.01228 samples: 259
Statistics for: Run 4 | TSR 3
min: 1.491 at 453.4 max: 1.512 at 454.2
mean: 1.502 median: 1.502
std. dev: 0.006313 samples: 109
Statistics for: Run 4 | TSR 3
min: 1.526 at 482.5 max: 1.576 at 487.2
mean: 1.558 median: 1.559
std. dev: 0.01128 samples: 157
TSR 3
Speed 2 (m/s)
Time (s)
Statistics for: Run 4 | Speed 2
min: 13.07 at 66.10 max: 13.90 at 81.07
mean: 13.34 median: 13.27
std. dev: 0.1826 samples: 891
Statistics for: Run 4 | Speed 2
min: 13.74 at 97.37 max: 14.37 at 94.83
mean: 14.02 median: 14.00
std. dev: 0.1732 samples: 222
Statistics for: Run 4 | Speed 2
min: 13.30 at 172.3 max: 13.62 at 174.7
mean: 13.47 median: 13.48
std. dev: 0.07338 samples: 261
Statistics for: Run 4 | Speed 2
min: 13.26 at 204.4 max: 13.54 at 205.9
mean: 13.40 median: 13.40
std. dev: 0.06224 samples: 185
Statistics for: Run 4 | Speed 2
min: 13.37 at 239.8 max: 14.05 at 231.2
mean: 13.72 median: 13.72
std. dev: 0.1704 samples: 503
Statistics for: Run 4 | Speed 2
min: 13.53 at 275.3 max: 14.59 at 266.2
mean: 14.00 median: 14.02
std. dev: 0.2491 samples: 1004
Statistics for: Run 4 | Speed 2
min: 13.97 at 337.0 max: 14.49 at 332.7
mean: 14.26 median: 14.31
std. dev: 0.1446 samples: 181
Statistics for: Run 4 | Speed 2
min: 14.00 at 396.8 max: 14.50 at 395.2
mean: 14.21 median: 14.20
std. dev: 0.1151 samples: 259
Statistics for: Run 4 | Speed 2
min: 13.99 at 452.1 max: 14.69 at 455.1
mean: 14.24 median: 14.22
std. dev: 0.1613 samples: 109
Statistics for: Run 4 | Speed 2
min: 14.11 at 487.2 max: 14.78 at 482.8
mean: 14.55 median: 14.64
std. dev: 0.1863 samples: 157
Statistics for: Run 4 | Calc Watts3
min: 617.8 at 55.57 max: 843.6 at 70.17
mean: 716.5 median: 717.3
std. dev: 33.27 samples: 891
Statistics for: Run 4 | Calc Watts3
min: 659.6 at 98.87 max: 786.7 at 93.50
mean: 728.1 median: 730.9
std. dev: 28.03 samples: 280
Statistics for: Run 4 | Calc Watts3
min: 575.5 at 171.5 max: 673.8 at 177.5
mean: 626.4 median: 624.7
std. dev: 20.18 samples: 261
Statistics for: Run 4 | Calc Watts3
min: 613.8 at 204.0 max: 778.3 at 205.3
mean: 690.0 median: 690.0
std. dev: 29.07 samples: 164
Statistics for: Run 4 | Calc Watts3
min: 662.4 at 234.7 max: 772.8 at 227.0
mean: 719.5 median: 719.0
std. dev: 21.67 samples: 503
Statistics for: Run 4 | Calc Watts3
min: 693.4 at 263.1 max: 854.1 at 275.1
mean: 772.7 median: 771.9
std. dev: 26.46 samples: 1004
Statistics for: Run 4 | Calc Watts3
min: 851.0 at 332.5 max: 972.3 at 336.8
mean: 914.6 median: 915.2
std. dev: 26.58 samples: 181
Statistics for: Run 4 | Calc Watts3
min: 722.7 at 393.0 max: 921.3 at 392.1
mean: 793.1 median: 784.8
std. dev: 44.22 samples: 243
Statistics for: Run 4 | Calc Watts3
min: 697.0 at 452.8 max: 829.9 at 455.2
mean: 755.6 median: 753.7
std. dev: 26.13 samples: 115
Statistics for: Run 4 | Calc Watts3
min: 746.4 at 484.7 max: 872.8 at 483.9
mean: 801.3 median: 799.8
std. dev: 26.77 samples: 157
Linear Fit for: Run 4 | Calc Cp 3
Cp3 = mt+b
m (Slope): 0.0001360
b (Y-Intercept): 0.2110
Correlation: 0.3936
RMSE: 0.01828
Linear Fit for: Run 4 | Calc Cp 3
Cp3 = mt+b
m (Slope): 5.993E-05
b (Y-Intercept): 0.2136
Correlation: 0.09137
RMSE: 0.02332
Calc Cp 3
Calc Watts3
Statistics for: Run 4 | Calc Cp 3
min: 0.2234 at 53.17 max: 0.3034 at 70.17
mean: 0.2585 median: 0.2584
std. dev: 0.01621 samples: 891
Statistics for: Run 4 | Calc Cp 3
min: 0.2077 at 100.5 max: 0.2375 at 97.40
mean: 0.2234 median: 0.2228
std. dev: 0.006861 samples: 280
Statistics for: Run 4 | Calc Cp 3
min: 0.2081 at 175.1 max: 0.2329 at 172.9
mean: 0.2189 median: 0.2186
std. dev: 0.006120 samples: 261
Statistics for: Run 4 | Calc Cp 3
min: 0.2300 at 202.3 max: 0.2656 at 205.
mean: 0.2457 median: 0.2447
std. dev: 0.007690 samples: 164
Statistics for: Run 4 | Calc Cp 3
min: 0.2217 at 231.4 max: 0.2633 at 238.7
mean: 0.2382 median: 0.2370
std. dev: 0.009414 samples: 503
Statistics for: Run 4 | Calc Cp 3
min: 0.2156 at 265.9 max: 0.2767 at 275.1
mean: 0.2412 median: 0.2399
std. dev: 0.01158 samples: 1004
Statistics for: Run 4 | Calc Cp 3
min: 0.2491 at 332.5 max: 0.2968 at 336.8
mean: 0.2696 median: 0.2689
std. dev: 0.01166 samples: 181
Statistics for: Run 4 | Calc Cp 3
min: 0.2143 at 395.3 max: 0.2700 at 392.1
mean: 0.2367 median: 0.2322
std. dev: 0.01392 samples: 243
Statistics for: Run 4 | Calc Cp 3
min: 0.2044 at 455.0 max: 0.2301 at 451.9
mean: 0.2229 median: 0.2240
std. dev: 0.005208 samples: 115
Statistics for: Run 4 | Calc Cp 3
min: 0.2065 at 484.2 max: 0.2411 at 487.3
mean: 0.2224 median: 0.2211
std. dev: 0.009400 samples: 157


Statistics for: Run 5 | TSR 3
min: 1.665 at 126.8 max: 1.691 at 125.9
mean: 1.675 median: 1.675
std. dev: 0.006546 samples: 81
Statistics for: Run 5 | TSR 3
min: 1.422 at 156.0 max: 1.478 at 165.2
mean: 1.451 median: 1.447
std. dev: 0.01474 samples: 315
Statistics for: Run 5 | TSR 3
min: 1.259 at 197.4 max: 1.288 at 195.9
mean: 1.272 median: 1.271
std. dev: 0.008727 samples: 161
Statistics for: Run 5 | TSR 3
min: 1.451 at 243.2 max: 1.574 at 249.6
mean: 1.509 median: 1.507
std. dev: 0.03210 samples: 436
Statistics for: Run 5 | TSR 3
min: 1.492 at 301.3 max: 1.518 at 299.0
mean: 1.504 median: 1.503
std. dev: 0.007061 samples: 154
Statistics for: Run 5 | TSR 3
min: 1.262 at 356.2 max: 1.324 at 349.2
mean: 1.297 median: 1.302
std. dev: 0.01732 samples: 370
Statistics for: Run 5 | TSR 3
min: 1.425 at 394.0 max: 1.486 at 389.3
mean: 1.458 median: 1.455
std. dev: 0.01513 samples: 406
Statistics for: Run 5 | TSR 3
min: 1.324 at 436.5 max: 1.359 at 438.6
mean: 1.347 median: 1.347
std. dev: 0.006925 samples: 118
Statistics for: Run 5 | TSR 3
min: 1.506 at 469.8 max: 1.570 at 472.9
mean: 1.544 median: 1.550
std. dev: 0.01806 samples: 103
TSR 3
Speed 2 (m/s)
0.0
0.5
1.0
1.5
10
20
30
100
200
300
400
500
Statistics for: Run 5 | Speed 2
min: 12.54 at 126.0 max: 12.98 at 124.8
mean: 12.74 median: 12.74
std. dev: 0.1073 samples: 81
Statistics for: Run 5 | Speed 2
min: 12.74 at 161.7 max: 13.20 at 159.2
mean: 13.00 median: 12.99
std. dev: 0.1223 samples: 315
Statistics for: Run 5 | Speed 2
min: 13.48 at 193.5 max: 13.79 at 194.6
mean: 13.67 median: 13.68
std. dev: 0.06664 samples: 161
Statistics for: Run 5 | Speed 2
min: 12.67 at 249.6 max: 13.34 at 243.9
mean: 12.96 median: 12.93
std. dev: 0.1586 samples: 436
Statistics for: Run 5 | Speed 2
min: 13.32 at 298.3 max: 13.79 at 301.1
mean: 13.59 median: 13.64
std. dev: 0.1354 samples: 154
Statistics for: Run 5 | Speed 2
min: 13.64 at 355.1 max: 13.99 at 345.3
mean: 13.79 median: 13.79
std. dev: 0.07302 samples: 370
Statistics for: Run 5 | Speed 2
min: 13.99 at 398.6 max: 14.45 at 394.1
mean: 14.18 median: 14.16
std. dev: 0.1024 samples: 406
Statistics for: Run 5 | Speed 2
min: 13.75 at 440.3 max: 14.21 at 436.5
mean: 14.00 median: 13.98
std. dev: 0.1273 samples: 118
Statistics for: Run 5 | Speed 2
min: 13.72 at 471.7 max: 13.94 at 470.3
mean: 13.82 median: 13.81
std. dev: 0.05596 samples: 103
Statistics for: Run 5 | Calc Cp 3
min: 0.2821 at 125.0 max: 0.3201 at 125.8
mean: 0.3032 median: 0.3057
std. dev: 0.009537 samples: 76
Statistics for: Run 5 | Calc Cp 3
min: 0.2637 at 157.1 max: 0.3046 at 161.8
mean: 0.2809 median: 0.2795
std. dev: 0.008966 samples: 315
Statistics for: Run 5 | Calc Cp 3
min: 0.2671 at 195.0 max: 0.2875 at 196.9
mean: 0.2793 median: 0.2795
std. dev: 0.004725 samples: 161
Statistics for: Run 5 | Calc Cp 3
min: 0.2758 at 244.2 max: 0.3179 at 249.7
mean: 0.2983 median: 0.2985
std. dev: 0.009732 samples: 435
Statistics for: Run 5 | Calc Cp 3
min: 0.2527 at 301.4 max: 0.2807 at 298.8
mean: 0.2655 median: 0.2638
std. dev: 0.007517 samples: 154
Linear Fit for: Run 5 | Calc Cp 3
Cp3 = mt+b
m (Slope): -3.122E-05
b (Y-Intercept): 0.2878
Correlation: -0.1892
RMSE: 0.01950
Statistics for: Run 5 | Calc Cp 3
min: 0.2346 at 345.3 max: 0.3035 at 355.0
mean: 0.2503 median: 0.2468
std. dev: 0.01147 samples: 370
Statistics for: Run 5 | Calc Cp 3
min: 0.2490 at 388.4 max: 0.2846 at 390.9
mean: 0.2663 median: 0.2663
std. dev: 0.008301 samples: 406
Statistics for: Run 5 | Calc Cp 3
min: 0.2601 at 437.7 max: 0.2942 at 440.3
mean: 0.2770 median: 0.2779
std. dev: 0.008942 samples: 103
Statistics for: Run 5 | Calc Cp 3
min: 0.2253 at 472.2 max: 0.2483 at 471.6
mean: 0.2414 median: 0.2430
std. dev: 0.005382 samples: 103
Calc Cp 3
Calc Watts3
0.0
0.2
0.4
500
1000
1500
2000
100
200
300
400
500
Statistics for: Run 5 | Calc Watts3
min: 688.5 at 125.0 max: 769.6 at 125.8
mean: 734.5 median: 735.5
std. dev: 19.08 samples: 86
Statistics for: Run 5 | Calc Watts3
min: 680.9 at 156.3 max: 757.8 at 159.2
mean: 722.9 median: 722.0
std. dev: 16.77 samples: 292
Statistics for: Run 5 | Calc Watts3
min: 791.8 at 195.0 max: 875.8 at 196.9
mean: 835.3 median: 836.4
std. dev: 16.23 samples: 161
Statistics for: Run 5 | Calc Watts3
min: 712.7 at 236.6 max: 807.9 at 245.8
mean: 759.0 median: 759.4
std. dev: 18.15 samples: 423
Statistics for: Run 5 | Calc Watts3
min: 749.8 at 301.6 max: 817.1 at 303.0
mean: 779.8 median: 779.4
std. dev: 13.07 samples: 154
Statistics for: Run 5 | Calc Watts3
min: 710.9 at 350.0 max: 937.9 at 355.0
mean: 768.5 median: 761.4
std. dev: 30.82 samples: 367
Statistics for: Run 5 | Calc Watts3
min: 800.5 at 388.7 max: 946.1 at 391.4
mean: 888.6 median: 894.9
std. dev: 31.40 samples: 406
Statistics for: Run 5 | Calc Watts3
min: 834.2 at 437.7 max: 919.1 at 438.2
mean: 883.5 median: 884.9
std. dev: 16.57 samples: 103
Statistics for: Run 5 | Calc Watts3
min: 677.9 at 472.1 max: 795.2 at 470.0
mean: 746.3 median: 749.7
std. dev: 22.27 samples: 103


Statistics for: Run 6 | Speed 2
min: 14.83 at 36.30 max: 15.20 at 38.40
mean: 14.95 median: 14.92
std. dev: 0.09548 samples: 84
Statistics for: Run 6 | Speed 2
min: 15.50 at 90.17 max: 16.15 at 85.8
mean: 15.81 median: 15.78
std. dev: 0.1606 samples: 392
Statistics for: Run 6 | Speed 2
min: 15.76 at 123.9 max: 16.01 at 126.5
mean: 15.91 median: 15.92
std. dev: 0.05777 samples: 96
Statistics for: Run 6 | Speed 2
min: 16.17 at 195.7 max: 16.47 at 194.4
mean: 16.31 median: 16.30
std. dev: 0.07610 samples: 48
Statistics for: Run 6 | Speed 2
min: 15.87 at 249.6 max: 16.01 at 250.2
mean: 15.95 median: 15.95
std. dev: 0.03339 samples: 66
Statistics for: Run 6 | Speed 2
min: 17.31 at 298.5 max: 18.29 at 302.4
mean: 17.98 median: 18.01
std. dev: 0.2076 samples: 425
Statistics for: Run 6 | Speed 2
min: 17.27 at 374.2 max: 18.09 at 368.1
mean: 17.66 median: 17.67
std. dev: 0.2464 samples: 260
Statistics for: Run 6 | Speed 2
min: 17.80 at 422.6 max: 18.06 at 420.7
mean: 17.93 median: 17.93
std. dev: 0.04722 samples: 115
TSR 3
Speed 2 (m/s)
Time (s)
Statistics for: Run 6 | TSR 3
min: 1.241 at 35.73 max: 1.277 at 38.40
mean: 1.257 median: 1.261
std. dev: 0.01098 samples: 84
Statistics for: Run 6 | TSR 3
min: 1.297 at 93.03 max: 1.328 at 89.3
mean: 1.314 median: 1.314
std. dev: 0.008683 samples: 392
Statistics for: Run 6 | TSR 3
min: 1.325 at 126.7 max: 1.337 at 125.0
mean: 1.331 median: 1.332
std. dev: 0.003139 samples: 96
Statistics for: Run 6 | TSR 3
min: 1.335 at 194.4 max: 1.359 at 195.7
mean: 1.350 median: 1.352
std. dev: 0.007073 samples: 48
Statistics for: Run 6 | TSR 3
min: 1.323 at 249.1 max: 1.358 at 250.7
mean: 1.344 median: 1.347
std. dev: 0.01055 samples: 66
Statistics for: Run 6 | TSR 3
min: 1.189 at 308.4 max: 1.253 at 300.5
mean: 1.218 median: 1.212
std. dev: 0.02030 samples: 425
Statistics for: Run 6 | TSR 3
min: 1.192 at 375.0 max: 1.254 at 370.8
mean: 1.225 median: 1.221
std. dev: 0.01777 samples: 260
Statistics for: Run 6 | TSR 3
min: 1.244 at 418.8 max: 1.266 at 422.6
mean: 1.255 median: 1.256
std. dev: 0.005626 samples: 115
Statistics for: Run 6 | Calc Watts3
min: 1050 at 36.53 max: 1150 at 35.63
mean: 1097 median: 1101
std. dev: 20.59 samples: 84
Statistics for: Run 6 | Calc Watts3
min: 1224 at 93.23 max: 1407 at 88.20
mean: 1338 median: 1346
std. dev: 39.50 samples: 322
Statistics for: Run 6 | Calc Watts3
min: 1292 at 124.5 max: 1438 at 126.6
mean: 1359 median: 1358
std. dev: 34.09 samples: 96
Statistics for: Run 6 | Calc Watts3
min: 1482 at 194.7 max: 1576 at 195.1
mean: 1522 median: 1521
std. dev: 18.28 samples: 48
Statistics for: Run 6 | Calc Watts3
min: 1200 at 250.0 max: 1383 at 251.1
mean: 1288 median: 1290
std. dev: 48.77 samples: 66
Statistics for: Run 6 | Calc Watts3
min: 1741 at 299.1 max: 2076 at 303.7
mean: 1946 median: 1959
std. dev: 69.94 samples: 415
Statistics for: Run 6 | Calc Watts3
min: 1776 at 374.8 max: 1981 at 371.2
mean: 1868 median: 1869
std. dev: 41.52 samples: 277
Statistics for: Run 6 | Calc Watts3
min: 1806 at 422.5 max: 1952 at 420.7
mean: 1889 median: 1894
std. dev: 34.48 samples: 115
Linear Fit for: Run 6 | Calc Cp 3
Cp3 = mt+b
m (Slope): 3.720E-05
b (Y-Intercept): 0.2738
Correlation: 0.04533
RMSE: 0.04475
Linear Fit for: Run 6 | Calc Cp 3
Cp3 = mt+b
m (Slope): 0.0001024
b (Y-Intercept): 0.2370
Correlation: 0.1273
RMSE: 0.03448
Calc Cp 3
Calc Watts3
Statistics for: Run 6 | Calc Cp 3
min: 0.2704 at 38.27 max: 0.2928 at 35.63
mean: 0.2806 median: 0.2810
std. dev: 0.005478 samples: 84
Statistics for: Run 6 | Calc Cp 3
min: 0.2666 at 93.20 max: 0.3083 at 89.93
mean: 0.2883 median: 0.2885
std. dev: 0.009796 samples: 331
Statistics for: Run 6 | Calc Cp 3
min: 0.2800 at 125.1 max: 0.2970 at 126.7
mean: 0.2883 median: 0.2885
std. dev: 0.003861 samples: 96
Statistics for: Run 6 | Calc Cp 3
min: 0.2884 at 194.4 max: 0.3081 at 195.7
mean: 0.3000 median: 0.3008
std. dev: 0.005451 samples: 48
Statistics for: Run 6 | Calc Cp 3
min: 0.2584 at 250.0 max: 0.2880 at 251.0
mean: 0.2715 median: 0.2693
std. dev: 0.008578 samples: 66
Statistics for: Run 6 | Calc Cp 3
min: 0.2755 at 302.3 max: 0.2953 at 304.8
mean: 0.2857 median: 0.2858
std. dev: 0.003793 samples: 425
Statistics for: Run 6 | Calc Cp 3
min: 0.2693 at 369.1 max: 0.3104 at 373.4
mean: 0.2908 median: 0.2927
std. dev: 0.009967 samples: 277
Statistics for: Run 6 | Calc Cp 3
min: 0.2720 at 421.2 max: 0.2857 at 421.7
mean: 0.2800 median: 0.2811
std. dev: 0.003751 samples: 115