

| index | 10_free | delta_t | absolute time | wheel speed | 10_load | delta_t | absolute time |
|-------|---------|-----------|---------------|-------------|---------|-----------|---------------|
| 1 | 398967 | 0.0166196 | 0.016619566 | 36.7557555 | 501280 | 0.0208816 | 0.020881567 |
| 2 | 309732 | 0.0129023 | 0.029521916 | 47.3452323 | 383120 | 0.0159594 | 0.036841003 |
| 3 | 287984 | 0.0119964 | 0.04151832 | 50.9206536 | 435093 | 0.0181244 | 0.054965452 |
| 4 | 231026 | 0.0096237 | 0.051142053 | 63.4748188 | 414615 | 0.0172714 | 0.07223686 |
| 5 | 226511 | 0.0094357 | 0.060577707 | 64.7400501 | 291530 | 0.0121441 | 0.084380977 |
| 6 | 235201 | 0.0097976 | 0.070375356 | 62.3480916 | 270829 | 0.0112818 | 0.095662764 |
| 7 | 200360 | 0.0083463 | 0.078721651 | 73.1899256 | 280160 | 0.0116705 | 0.107333248 |
| 8 | 202623 | 0.0084406 | 0.087162215 | 72.3725021 | 244507 | 0.0101853 | 0.117518552 |
| 9 | 214846 | 0.0089497 | 0.096111946 | 68.255092 | 254795 | 0.0106139 | 0.128132418 |
| 10 | 185605 | 0.0077317 | 0.1038436 | 79.0082891 | 286585 | 0.0119381 | 0.140070545 |
| 11 | 189585 | 0.0078974 | 0.111741046 | 77.3496505 | 259289 | 0.0108011 | 0.150871615 |
| 12 | 203505 | 0.0084773 | 0.120218351 | 72.0588364 | 275341 | 0.0114697 | 0.162341356 |
| 13 | 177966 | 0.0074134 | 0.127631791 | 82.3996353 | 295551 | 0.0123116 | 0.174652975 |
| 14 | 182736 | 0.0076121 | 0.135243932 | 80.2487386 | 260001 | 0.0108307 | 0.185483705 |
| 15 | 197508 | 0.0082275 | 0.143471423 | 74.2467824 | 274017 | 0.0114146 | 0.196898292 |
| 16 | 172937 | 0.0072039 | 0.150675372 | 84.7958129 | 300686 | 0.0125255 | 0.209423817 |
| 17 | 178173 | 0.0074221 | 0.158097434 | 82.303904 | 254055 | 0.010583 | 0.220006858 |
| 18 | 193462 | 0.0080589 | 0.166156383 | 75.7995549 | 267487 | 0.0111426 | 0.231149428 |
| 19 | 171722 | 0.0071533 | 0.173309719 | 85.3957763 | 306275 | 0.0127583 | 0.243907771 |
| 20 | 178664 | 0.0074425 | 0.180752235 | 82.0777185 | 276503 | 0.0115181 | 0.255425917 |
| 21 | 193485 | 0.0080599 | 0.188812142 | 75.7905444 | 283448 | 0.0118074 | 0.267233367 |
| 22 | 169065 | 0.0070427 | 0.195854797 | 86.7378434 | 314075 | 0.0130833 | 0.28031663 |
| 23 | 174151 | 0.0072545 | 0.203109317 | 84.2047045 | 294954 | 0.0122867 | 0.29260338 |
| 24 | 188297 | 0.0078438 | 0.21095311 | 77.8787421 | 334413 | 0.0139305 | 0.306533853 |
| 25 | 165162 | 0.0068801 | 0.21783318 | 88.7875752 | 352183 | 0.0146707 | 0.321204562 |
| 26 | 170616 | 0.0071073 | 0.224940444 | 85.9493453 | 292207 | 0.0121723 | 0.333376881 |
| 27 | 185021 | 0.0077073 | 0.232647771 | 79.2576707 | 290567 | 0.012104 | 0.345480883 |
| 28 | 162507 | 0.0067695 | 0.239417243 | 90.2381651 | 283054 | 0.011791 | 0.357271921 |
| 29 | 167541 | 0.0069792 | 0.246396413 | 87.5268352 | 220250 | 0.0091748 | 0.366446764 |
| 30 | 181656 | 0.0075672 | 0.253963565 | 80.7258417 | 208695 | 0.0086935 | 0.375140266 |
| 31 | 160066 | 0.0066678 | 0.260631354 | 91.6142934 | 212074 | 0.0088343 | 0.383974525 |
| 32 | 165358 | 0.0068882 | 0.267519588 | 88.6823346 | 179777 | 0.0074889 | 0.391463405 |
| 33 | 179343 | 0.0074708 | 0.274990389 | 81.7669688 | 182797 | 0.0076147 | 0.399078087 |
| 34 | 158467 | 0.0066012 | 0.281591569 | 92.538721 | 196778 | 0.0081971 | 0.407275168 |
| 35 | 163360 | 0.006805 | 0.288396573 | 89.7669778 | 174220 | 0.0072574 | 0.414532563 |
| 36 | 177293 | 0.0073854 | 0.295781978 | 82.7124223 | 182964 | 0.0076216 | 0.422154202 |
| 37 | 156881 | 0.0065351 | 0.302317091 | 93.474248 | 201562 | 0.0083964 | 0.430550568 |
| 38 | 162167 | 0.0067553 | 0.309072399 | 90.4273588 | 177837 | 0.0074081 | 0.437958634 |
| 39 | 176612 | 0.007357 | 0.316429436 | 83.031354 | 183648 | 0.0076501 | 0.445608766 |
| 40 | 156021 | 0.0064993 | 0.322928724 | 93.9894853 | 199089 | 0.0082933 | 0.453902115 |
| 41 | 161421 | 0.0067242 | 0.329652957 | 90.8452648 | 174301 | 0.0072608 | 0.461162884 |
| 42 | 175223 | 0.0072992 | 0.336952133 | 83.689547 | 177576 | 0.0073972 | 0.468560078 |
| 43 | 154424 | 0.0064328 | 0.343384895 | 94.9614923 | 189887 | 0.00791 | 0.476470104 |
| 44 | 159613 | 0.0066489 | 0.350033813 | 91.8743053 | 165840 | 0.0069083 | 0.483378417 |
| 45 | 173894 | 0.0072438 | 0.357277628 | 84.3291516 | 172287 | 0.0071769 | 0.49055529 |
| 46 | 153636 | 0.0063999 | 0.363677565 | 95.4485504 | 187759 | 0.0078214 | 0.498376671 |

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|----|--------|-----------|-------------|------------|--------|-----------|-------------|
| 47 | 159222 | 0.0066326 | 0.370310195 | 92.0999202 | 166908 | 0.0069528 | 0.505329473 |
| 48 | 172722 | 0.007195 | 0.377505188 | 84.9013646 | 174286 | 0.0072601 | 0.512589617 |
| 49 | 152196 | 0.00634 | 0.38384514 | 96.3516353 | 191475 | 0.0079762 | 0.520565794 |
| 50 | 157285 | 0.0065519 | 0.390397082 | 93.2341513 | 168807 | 0.0070319 | 0.527597702 |
| 51 | 171014 | 0.0071238 | 0.397520925 | 85.7493158 | 173052 | 0.0072087 | 0.534806442 |
| 52 | 151024 | 0.0062911 | 0.403812056 | 97.0993583 | 187094 | 0.0077937 | 0.542600122 |
| 53 | 156080 | 0.0065017 | 0.410313801 | 93.9539563 | 165969 | 0.0069137 | 0.549513809 |
| 54 | 169685 | 0.0070685 | 0.417382283 | 86.4209181 | 171082 | 0.0071267 | 0.556640485 |
| 55 | 150087 | 0.0062521 | 0.423634382 | 97.7055541 | 184302 | 0.0076774 | 0.56431786 |
| 56 | 154882 | 0.0064518 | 0.430086223 | 94.6806827 | 162484 | 0.0067685 | 0.571086374 |
| 57 | 168936 | 0.0070373 | 0.437123504 | 86.8040766 | 169482 | 0.00706 | 0.5781464 |
| 58 | 149541 | 0.0062294 | 0.443352858 | 98.0622939 | 186645 | 0.007775 | 0.585921376 |
| 59 | 154679 | 0.0064434 | 0.449796243 | 94.8049412 | 166993 | 0.0069563 | 0.592877719 |
| 60 | 168629 | 0.0070245 | 0.456820736 | 86.9621091 | 175754 | 0.0073213 | 0.600199015 |
| 61 | 149128 | 0.0062121 | 0.463032886 | 98.3338709 | 193941 | 0.0080789 | 0.608277917 |
| 62 | 154214 | 0.006424 | 0.4694569 | 95.0908056 | 170849 | 0.007117 | 0.615394887 |
| 63 | 167750 | 0.0069879 | 0.476444777 | 87.4177854 | 174694 | 0.0072771 | 0.622672027 |
| 64 | 148738 | 0.0061959 | 0.482640681 | 98.5917082 | 188102 | 0.0078357 | 0.630507697 |
| 65 | 155109 | 0.0064613 | 0.489101978 | 94.5421187 | 165856 | 0.006909 | 0.637416676 |
| 66 | 170071 | 0.0070846 | 0.496186539 | 86.2247737 | 172097 | 0.007169 | 0.644585634 |
| 67 | 150571 | 0.0062723 | 0.502458799 | 97.3914864 | 185772 | 0.0077386 | 0.652324244 |
| 68 | 155059 | 0.0064592 | 0.508918014 | 94.5726046 | 163376 | 0.0068057 | 0.659129915 |
| 69 | 168967 | 0.0070386 | 0.515956587 | 86.7881509 | 170410 | 0.0070987 | 0.666228598 |
| 70 | 149080 | 0.0062102 | 0.522166737 | 98.3655319 | 188576 | 0.0078554 | 0.674084014 |
| 71 | 153870 | 0.0064097 | 0.528576422 | 95.3033957 | 167358 | 0.0069715 | 0.681055561 |
| 72 | 167866 | 0.0069927 | 0.535569131 | 87.3573773 | 174680 | 0.0072766 | 0.688332117 |
| 73 | 148254 | 0.0061757 | 0.541744872 | 98.9135773 | 192564 | 0.0080215 | 0.696353659 |
| 74 | 153268 | 0.0063846 | 0.54812948 | 95.6777246 | 171183 | 0.0071309 | 0.703484542 |
| 75 | 166985 | 0.006956 | 0.55508549 | 87.8182681 | 176086 | 0.0073351 | 0.710819668 |
| 76 | 147563 | 0.006147 | 0.561232447 | 99.3767645 | 188907 | 0.0078692 | 0.718688871 |
| 77 | 152985 | 0.0063728 | 0.567605266 | 95.8547145 | 165711 | 0.0069029 | 0.72559181 |
| 78 | 166355 | 0.0069298 | 0.574535032 | 88.150843 | 170866 | 0.0071177 | 0.732709489 |
| 79 | 147629 | 0.0061497 | 0.580684738 | 99.3323364 | 184758 | 0.0076964 | 0.740405859 |
| 80 | 152998 | 0.0063734 | 0.587058099 | 95.8465698 | 162458 | 0.0067674 | 0.74717329 |
| 81 | 166769 | 0.006947 | 0.59400511 | 87.9320107 | 169349 | 0.0070545 | 0.754227776 |
| 82 | 147676 | 0.0061517 | 0.600156775 | 99.3007225 | 185672 | 0.0077344 | 0.76196222 |
| 83 | 153305 | 0.0063861 | 0.606542924 | 95.6546329 | 165255 | 0.0068839 | 0.768846164 |
| 84 | 167232 | 0.0069663 | 0.613509223 | 87.6885614 | 171795 | 0.0071564 | 0.776002542 |
| 85 | 148697 | 0.0061942 | 0.619703418 | 98.6188927 | 189130 | 0.0078785 | 0.783881034 |
| 86 | 154334 | 0.006429 | 0.626132432 | 95.0168692 | 170178 | 0.007089 | 0.790970053 |
| 87 | 168770 | 0.0070304 | 0.633162798 | 86.889456 | 177931 | 0.007412 | 0.798382035 |
| 88 | 149252 | 0.0062173 | 0.639380113 | 98.2521741 | 194240 | 0.0080914 | 0.806473392 |
| 89 | 154824 | 0.0064494 | 0.645829538 | 94.7161518 | 171633 | 0.0071496 | 0.813623021 |
| 90 | 168485 | 0.0070185 | 0.652848033 | 87.0364335 | 178204 | 0.0074234 | 0.821046375 |
| 91 | 149499 | 0.0062276 | 0.659075637 | 98.0898434 | 192143 | 0.008004 | 0.829050379 |
| 92 | 154861 | 0.006451 | 0.665526603 | 94.6935219 | 168034 | 0.0069997 | 0.836050086 |
| 93 | 169081 | 0.0070433 | 0.672569925 | 86.7296355 | 172767 | 0.0071969 | 0.843246954 |

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|-----|--------|-----------|-------------|------------|--------|-----------|-------------|
| 94 | 149388 | 0.006223 | 0.678792905 | 98.1627272 | 187921 | 0.0078281 | 0.851075084 |
| 95 | 154514 | 0.0064365 | 0.685229417 | 94.90618 | 166245 | 0.0069252 | 0.858000268 |
| 96 | 168397 | 0.0070148 | 0.692244245 | 87.0819165 | 171346 | 0.0071377 | 0.865137941 |
| 97 | 149132 | 0.0062123 | 0.698456562 | 98.3312334 | 186314 | 0.0077612 | 0.872899129 |
| 98 | 154347 | 0.0064296 | 0.704886117 | 95.0088663 | 165424 | 0.006891 | 0.879790113 |
| 99 | 168175 | 0.0070056 | 0.711891698 | 87.1968693 | 172627 | 0.007191 | 0.886981149 |
| 100 | 148911 | 0.0062031 | 0.718094808 | 98.4771675 | 188316 | 0.0078446 | 0.894825733 |
| 101 | 154220 | 0.0064243 | 0.724519072 | 95.087106 | 165889 | 0.0069104 | 0.901736087 |
| 102 | 168214 | 0.0070072 | 0.731526278 | 87.1766529 | 172178 | 0.0071723 | 0.908908419 |
| 103 | 149208 | 0.0062155 | 0.73774176 | 98.2811477 | 186443 | 0.0077666 | 0.916674981 |
| 104 | 154665 | 0.0064428 | 0.744184562 | 94.8135227 | 164611 | 0.0068571 | 0.923532098 |
| 105 | 168764 | 0.0070301 | 0.751214678 | 86.8925452 | 170318 | 0.0070949 | 0.930626949 |
| 106 | 149668 | 0.0062346 | 0.757449322 | 97.9790837 | 187025 | 0.0077908 | 0.938417755 |
| 107 | 154838 | 0.00645 | 0.763899331 | 94.7075879 | 166218 | 0.0069241 | 0.945341814 |
| 108 | 168840 | 0.0070333 | 0.770932613 | 86.8534322 | 172235 | 0.0071747 | 0.95251652 |
| 109 | 149369 | 0.0062222 | 0.777154802 | 98.1752137 | 186307 | 0.0077609 | 0.960277417 |
| 110 | 155242 | 0.0064668 | 0.783621639 | 94.4611219 | 164439 | 0.00685 | 0.967127369 |
| 111 | 169871 | 0.0070762 | 0.79069787 | 86.3262917 | 171412 | 0.0071404 | 0.974267792 |
| 112 | 151304 | 0.0063028 | 0.797000664 | 96.9196683 | 186649 | 0.0077751 | 0.982042935 |
| 113 | 156873 | 0.0065348 | 0.803535443 | 93.4790148 | 164922 | 0.0068701 | 0.988913007 |
| 114 | 170643 | 0.0071084 | 0.810643832 | 85.9357459 | 171025 | 0.0071243 | 0.996037309 |
| 115 | 150782 | 0.006281 | 0.816924882 | 97.2551995 | 187283 | 0.0078016 | 1.003838862 |
| 116 | 156377 | 0.0065141 | 0.823438999 | 93.7755136 | 166343 | 0.0069293 | 1.010768129 |
| 117 | 169917 | 0.0070781 | 0.830517146 | 86.3029214 | 172895 | 0.0072022 | 1.017970328 |
| 118 | 150303 | 0.0062611 | 0.836778242 | 97.5651417 | 189973 | 0.0079136 | 1.025883937 |
| 119 | 156011 | 0.0064989 | 0.843277113 | 93.9955099 | 168919 | 0.0070366 | 1.032920511 |
| 120 | 169673 | 0.007068 | 0.850345096 | 86.4270302 | 175408 | 0.0073069 | 1.040227393 |
| 121 | 150302 | 0.0062611 | 0.85660615 | 97.5657908 | 189185 | 0.0078808 | 1.048108177 |
| 122 | 155818 | 0.0064908 | 0.863096982 | 94.111935 | 165525 | 0.0068952 | 1.055003368 |
| 123 | 169819 | 0.0070741 | 0.870171046 | 86.3527255 | 170531 | 0.0071037 | 1.062107092 |
| 124 | 150255 | 0.0062591 | 0.876430142 | 97.5963096 | 186603 | 0.0077732 | 1.069880318 |
| 125 | 155985 | 0.0064978 | 0.88292793 | 94.0111773 | 164681 | 0.00686 | 1.076740351 |
| 126 | 170246 | 0.0070919 | 0.890019782 | 86.1361412 | 172079 | 0.0071682 | 1.083908559 |
| 127 | 150619 | 0.0062743 | 0.896294041 | 97.3604492 | 188945 | 0.0078708 | 1.091779346 |
| 128 | 156481 | 0.0065184 | 0.902812491 | 93.7131888 | 168934 | 0.0070372 | 1.098816544 |
| 129 | 170270 | 0.0070929 | 0.909905343 | 86.1240001 | 176050 | 0.0073336 | 1.10615017 |
| 130 | 151452 | 0.006309 | 0.916214302 | 96.8249577 | 194590 | 0.0081059 | 1.114256107 |
| 131 | 157395 | 0.0065565 | 0.922770826 | 93.168992 | 175513 | 0.0073113 | 1.121567363 |
| 132 | 172204 | 0.0071734 | 0.929944241 | 85.156753 | 187693 | 0.0078186 | 1.129385995 |
| 133 | 153004 | 0.0063736 | 0.936317851 | 95.8428113 | 204595 | 0.0085227 | 1.137908706 |
| 134 | 158567 | 0.0066053 | 0.942923196 | 92.4803616 | 178559 | 0.0074381 | 1.145346848 |
| 135 | 172168 | 0.0071719 | 0.950095112 | 85.1745591 | 183337 | 0.0076372 | 1.152984024 |
| 136 | 152329 | 0.0063455 | 0.956440604 | 96.2675098 | 199846 | 0.0083249 | 1.161308908 |
| 137 | 157972 | 0.0065806 | 0.963021163 | 92.828688 | 176251 | 0.007342 | 1.168650907 |
| 138 | 172401 | 0.0071816 | 0.970202785 | 85.0594457 | 181062 | 0.0075424 | 1.176193315 |
| 139 | 152786 | 0.0063645 | 0.976567314 | 95.9795629 | 197521 | 0.008228 | 1.184421347 |
| 140 | 158341 | 0.0065959 | 0.983163245 | 92.6123587 | 177251 | 0.0073837 | 1.191805003 |

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|-----|--------|-----------|-------------|------------|--------|-----------|-------------|
| 141 | 172204 | 0.0071734 | 0.99033666 | 85.156753 | 186153 | 0.0077545 | 1.199559484 |
| 142 | 152527 | 0.0063537 | 0.9966904 | 96.1425419 | 204178 | 0.0085053 | 1.208064824 |
| 143 | 157705 | 0.0065694 | 1.003259837 | 92.9858501 | 181665 | 0.0075675 | 1.215632351 |
| 144 | 171808 | 0.0071569 | 1.010416756 | 85.3530307 | 191362 | 0.0079715 | 1.223603821 |
| 145 | 152233 | 0.0063415 | 1.016758249 | 96.3282172 | 209370 | 0.0087216 | 1.232325441 |
| 146 | 157550 | 0.006563 | 1.02332123 | 93.077331 | 183433 | 0.0076412 | 1.239966617 |
| 147 | 171324 | 0.0071368 | 1.030457987 | 85.5941578 | 188403 | 0.0078482 | 1.247814825 |
| 148 | 152072 | 0.0063348 | 1.036792773 | 96.4302008 | 203422 | 0.0084738 | 1.256288672 |
| 149 | 157293 | 0.0065523 | 1.043345048 | 93.2294094 | 177520 | 0.0073949 | 1.263683533 |
| 150 | 171275 | 0.0071347 | 1.050479764 | 85.6186454 | 180869 | 0.0075344 | 1.271217902 |
| 151 | 152246 | 0.006342 | 1.056821799 | 96.3199919 | 194040 | 0.008083 | 1.279300928 |
| 152 | 157697 | 0.0065691 | 1.063390903 | 92.9905673 | 172966 | 0.0072052 | 1.286506085 |
| 153 | 172284 | 0.0071767 | 1.07056765 | 85.1172105 | 180877 | 0.0075347 | 1.294040787 |
| 154 | 151910 | 0.006328 | 1.076895688 | 96.533036 | 197128 | 0.0082117 | 1.302252448 |
| 155 | 157703 | 0.0065694 | 1.083465043 | 92.9870294 | 173921 | 0.0072449 | 1.309497387 |
| 156 | 171540 | 0.0071458 | 1.090610798 | 85.4863792 | 181546 | 0.0075626 | 1.317059957 |
| 157 | 152570 | 0.0063555 | 1.096966329 | 96.1154453 | 200438 | 0.0083495 | 1.325409501 |
| 158 | 159033 | 0.0066248 | 1.103591086 | 92.2093747 | 177263 | 0.0073842 | 1.332793656 |
| 159 | 173472 | 0.0072262 | 1.110817321 | 84.5342966 | 184045 | 0.0076667 | 1.340460326 |
| 160 | 153324 | 0.0063869 | 1.117204262 | 95.6427793 | 202167 | 0.0084216 | 1.348881894 |
| 161 | 158740 | 0.0066126 | 1.123816814 | 92.3795735 | 179538 | 0.0074789 | 1.356360818 |
| 162 | 172527 | 0.0071869 | 1.131003684 | 84.997325 | 184601 | 0.0076898 | 1.364050648 |
| 163 | 152961 | 0.0063718 | 1.137375503 | 95.8697543 | 196738 | 0.0081954 | 1.372246064 |
| 164 | 158090 | 0.0065855 | 1.143960978 | 92.7593997 | 172404 | 0.0071817 | 1.37942781 |
| 165 | 172355 | 0.0071797 | 1.151140683 | 85.0821473 | 179430 | 0.0074744 | 1.386902235 |
| 166 | 152605 | 0.006357 | 1.157497672 | 96.0934012 | 196262 | 0.0081756 | 1.395077822 |
| 167 | 157758 | 0.0065716 | 1.164069317 | 92.9546108 | 174045 | 0.0072501 | 1.402327926 |
| 168 | 172421 | 0.0071825 | 1.171251772 | 85.0495792 | 181614 | 0.0075654 | 1.409893329 |
| 169 | 152638 | 0.0063584 | 1.177610136 | 96.072626 | 198857 | 0.0082837 | 1.418177014 |
| 170 | 157926 | 0.0065786 | 1.184188779 | 92.8557267 | 175499 | 0.0073107 | 1.425487687 |
| 171 | 172516 | 0.0071864 | 1.191375191 | 85.0027446 | 181682 | 0.0075682 | 1.433055922 |
| 172 | 152581 | 0.006356 | 1.19773118 | 96.1085161 | 197725 | 0.0082365 | 1.441292453 |
| 173 | 158166 | 0.0065886 | 1.204319821 | 92.714828 | 174483 | 0.0072684 | 1.448560803 |
| 174 | 172386 | 0.007181 | 1.211500818 | 85.066847 | 178742 | 0.0074458 | 1.456006568 |
| 175 | 151937 | 0.0063292 | 1.217829981 | 96.5158815 | 190917 | 0.0079529 | 1.463959501 |
| 176 | 157738 | 0.0065708 | 1.224400793 | 92.9663968 | 166474 | 0.0069347 | 1.470894224 |
| 177 | 172737 | 0.0071956 | 1.231596411 | 84.893992 | 172534 | 0.0071872 | 1.478081385 |
| 178 | 153879 | 0.0064101 | 1.23800647 | 95.2978216 | 188528 | 0.0078534 | 1.485934801 |
| 179 | 160131 | 0.0066705 | 1.244676966 | 91.5771056 | 167240 | 0.0069666 | 1.492901433 |
| 180 | 173546 | 0.0072293 | 1.251906284 | 84.4982511 | 176451 | 0.0073503 | 1.500251763 |
| 181 | 153465 | 0.0063928 | 1.258299098 | 95.554905 | 198587 | 0.0082724 | 1.508524201 |
| 182 | 158889 | 0.0066188 | 1.264917857 | 92.2929435 | 179902 | 0.0074941 | 1.516018288 |
| 183 | 172963 | 0.007205 | 1.272122889 | 84.7830663 | 187361 | 0.0078048 | 1.52382309 |
| 184 | 153276 | 0.0063849 | 1.27850783 | 95.6727308 | 203700 | 0.0084854 | 1.532308518 |
| 185 | 159047 | 0.0066253 | 1.28513317 | 92.2012581 | 179373 | 0.0074721 | 1.539780569 |
| 186 | 172753 | 0.0071963 | 1.292329454 | 84.8861293 | 184623 | 0.0076907 | 1.547471315 |
| 187 | 152824 | 0.0063661 | 1.298695567 | 95.9556974 | 196751 | 0.008196 | 1.555667272 |

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|-----|--------|-----------|-------------|------------|--------|-----------|-------------|
| 188 | 158195 | 0.0065898 | 1.305285416 | 92.6978317 | 171082 | 0.0071267 | 1.562793949 |
| 189 | 172249 | 0.0071753 | 1.312460705 | 85.1345058 | 177556 | 0.0073964 | 1.570190309 |
| 190 | 152652 | 0.0063589 | 1.318819652 | 96.063815 | 196826 | 0.0081991 | 1.57838939 |
| 191 | 157792 | 0.0065731 | 1.325392714 | 92.9345816 | 176639 | 0.0073582 | 1.585747552 |
| 192 | 172058 | 0.0071673 | 1.332560047 | 85.2290128 | 185756 | 0.0077379 | 1.593485495 |
| 193 | 152533 | 0.006354 | 1.338914037 | 96.1387601 | 206075 | 0.0085844 | 1.602069857 |
| 194 | 157884 | 0.0065769 | 1.345490931 | 92.880428 | 182227 | 0.0075909 | 1.609660795 |
| 195 | 171941 | 0.0071625 | 1.35265339 | 85.2870083 | 186589 | 0.0077726 | 1.617433439 |
| 196 | 152544 | 0.0063544 | 1.359007838 | 96.1318275 | 198384 | 0.008264 | 1.625697421 |
| 197 | 158421 | 0.0065993 | 1.365607102 | 92.565591 | 173529 | 0.0072286 | 1.632926031 |
| 198 | 172702 | 0.0071942 | 1.372801262 | 84.9111967 | 179948 | 0.007496 | 1.640422034 |
| 199 | 152943 | 0.0063711 | 1.379172331 | 95.8810373 | 194859 | 0.0081171 | 1.648539176 |
| 200 | 158042 | 0.0065835 | 1.385755806 | 92.7875722 | 171218 | 0.0071323 | 1.655671518 |
| 201 | 172032 | 0.0071663 | 1.392922056 | 85.2418939 | 178138 | 0.0074206 | 1.663092122 |
| 202 | 152965 | 0.006372 | 1.399294042 | 95.8672474 | 196326 | 0.0081783 | 1.671270375 |
| 203 | 158445 | 0.0066003 | 1.405894305 | 92.5515699 | 175216 | 0.0072989 | 1.67856926 |
| 204 | 173219 | 0.0072157 | 1.413110002 | 84.6577656 | 181556 | 0.007563 | 1.686132246 |
| 205 | 153913 | 0.0064115 | 1.419521478 | 95.2767699 | 197945 | 0.0082457 | 1.694377941 |
| 206 | 159438 | 0.0066416 | 1.426163106 | 91.975147 | 176023 | 0.0073325 | 1.701710442 |
| 207 | 173235 | 0.0072164 | 1.433379468 | 84.6499466 | 180853 | 0.0075337 | 1.709244144 |
| 208 | 153229 | 0.006383 | 1.439762451 | 95.7020766 | 193084 | 0.0080432 | 1.717287346 |
| 209 | 158465 | 0.0066011 | 1.446363548 | 92.5398889 | 167280 | 0.0069683 | 1.724255645 |
| 210 | 172163 | 0.0071717 | 1.453535255 | 85.1770328 | 171272 | 0.0071346 | 1.731390236 |
| 211 | 152409 | 0.0063488 | 1.459884079 | 96.2169786 | 185515 | 0.0077279 | 1.73911814 |
| 212 | 157689 | 0.0065688 | 1.46645285 | 92.995285 | 163815 | 0.006824 | 1.745942099 |
| 213 | 171995 | 0.0071647 | 1.473617559 | 85.2602314 | 170079 | 0.0070849 | 1.753026994 |
| 214 | 152525 | 0.0063537 | 1.479971216 | 96.1438026 | 187711 | 0.0078194 | 1.760846376 |
| 215 | 157681 | 0.0065684 | 1.486539653 | 93.0000031 | 168017 | 0.006999 | 1.767845375 |
| 216 | 172138 | 0.0071707 | 1.493710319 | 85.1894032 | 175126 | 0.0072951 | 1.77514051 |
| 217 | 152727 | 0.0063621 | 1.50007239 | 96.0166408 | 191579 | 0.0079805 | 1.78312102 |
| 218 | 158088 | 0.0065854 | 1.506657782 | 92.7605732 | 172222 | 0.0071742 | 1.790295184 |
| 219 | 172279 | 0.0071765 | 1.513834321 | 85.1196808 | 180568 | 0.0075218 | 1.797817014 |
| 220 | 152426 | 0.0063495 | 1.520183854 | 96.2062476 | 194557 | 0.0081046 | 1.805921577 |
| 221 | 157645 | 0.0065669 | 1.526750792 | 93.0212407 | 168507 | 0.0070194 | 1.812940988 |
| 222 | 171773 | 0.0071555 | 1.533906253 | 85.370422 | 171893 | 0.0071605 | 1.820101447 |
| 223 | 152530 | 0.0063539 | 1.540260118 | 96.140651 | 185706 | 0.0077359 | 1.827837308 |
| 224 | 158975 | 0.0066223 | 1.546882459 | 92.2430162 | 163766 | 0.0068219 | 1.834659226 |
| 225 | 174063 | 0.0072509 | 1.554133314 | 84.2472754 | 170067 | 0.0070844 | 1.841743621 |
| 226 | 154074 | 0.0064182 | 1.560551496 | 95.1772103 | 186714 | 0.0077779 | 1.849521471 |
| 227 | 159240 | 0.0066334 | 1.567184876 | 92.0895095 | 166995 | 0.0069564 | 1.856477898 |
| 228 | 173231 | 0.0072162 | 1.574401073 | 84.6519012 | 174154 | 0.0072546 | 1.863732543 |
| 229 | 153339 | 0.0063876 | 1.580788638 | 95.6334233 | 188528 | 0.0078534 | 1.871585958 |
| 230 | 158968 | 0.006622 | 1.587410687 | 92.247078 | 166774 | 0.0069472 | 1.878533178 |
| 231 | 172959 | 0.0072049 | 1.594615553 | 84.785027 | 174068 | 0.0072511 | 1.885784241 |
| 232 | 152976 | 0.0063724 | 1.600987997 | 95.8603539 | 189259 | 0.0078839 | 1.893668107 |
| 233 | 158502 | 0.0066026 | 1.607590634 | 92.5182868 | 165662 | 0.0069009 | 1.900569006 |
| 234 | 172344 | 0.0071792 | 1.614769881 | 85.0875777 | 169102 | 0.0070442 | 1.907613202 |

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|-----|--------|-----------|-------------|------------|--------|-----------|-------------|
| 235 | 153097 | 0.0063775 | 1.621147365 | 95.7845908 | 181803 | 0.0075733 | 1.915186478 |
| 236 | 158075 | 0.0065849 | 1.627732216 | 92.7682018 | 160157 | 0.0066716 | 1.921858057 |
| 237 | 172125 | 0.0071701 | 1.63490234 | 85.1958373 | 165144 | 0.0068793 | 1.928737377 |
| 238 | 152531 | 0.0063539 | 1.641256246 | 96.1400207 | 179947 | 0.007496 | 1.936233338 |
| 239 | 158202 | 0.0065901 | 1.647846387 | 92.6937301 | 160701 | 0.0066942 | 1.942927578 |
| 240 | 171849 | 0.0071586 | 1.655005014 | 85.332667 | 167713 | 0.0069863 | 1.949913914 |
| 241 | 152090 | 0.0063355 | 1.66134055 | 96.4187882 | 182647 | 0.0076084 | 1.957522348 |
| 242 | 157491 | 0.0065605 | 1.667901073 | 93.1122 | 162657 | 0.0067757 | 1.964298068 |
| 243 | 172126 | 0.0071702 | 1.675071239 | 85.1953423 | 171115 | 0.0071281 | 1.971426119 |
| 244 | 152590 | 0.0063564 | 1.681427603 | 96.1028475 | 191393 | 0.0079728 | 1.97939888 |
| 245 | 157859 | 0.0065759 | 1.688003456 | 92.8951374 | 170959 | 0.0071216 | 1.986520433 |
| 246 | 172291 | 0.007177 | 1.695180495 | 85.1137523 | 176748 | 0.0073627 | 1.993883135 |
| 247 | 152320 | 0.0063451 | 1.701525612 | 96.2731978 | 191186 | 0.0079641 | 2.001847273 |
| 248 | 157817 | 0.0065741 | 1.708099715 | 92.9198597 | 169556 | 0.0070631 | 2.008910382 |
| 249 | 172314 | 0.007178 | 1.715277712 | 85.1023915 | 175747 | 0.007321 | 2.016231386 |

| wheel speed | 20_free | delta_t | absolute time | wheel speed | 20_load | delta_t |
|-------------|---------|----------|---------------|-------------|---------|-------------|
| 29.25377732 | 228412 | 0.009515 | 0.009514843 | 64.2012394 | 229554 | 0.009562415 |
| 38.2760845 | 152892 | 0.006369 | 0.015883788 | 95.9130203 | 162874 | 0.00678476 |
| 33.70390582 | 136328 | 0.005679 | 0.021562734 | 107.566556 | 156641 | 0.006525115 |
| 35.36855515 | 133382 | 0.005556 | 0.027118961 | 109.942372 | 169959 | 0.007079896 |
| 50.30128458 | 109477 | 0.00456 | 0.031679389 | 133.948989 | 150500 | 0.006269302 |
| 54.1460977 | 106814 | 0.004449 | 0.036128886 | 137.288497 | 156772 | 0.006530572 |
| 52.3427095 | 110907 | 0.00462 | 0.040748882 | 132.221893 | 167571 | 0.00698042 |
| 59.97510702 | 94751 | 0.003947 | 0.044695877 | 154.767058 | 142122 | 0.005920304 |
| 57.55345863 | 94883 | 0.003952 | 0.04864837 | 154.551748 | 140556 | 0.00585507 |
| 51.169229 | 100346 | 0.00418 | 0.052828433 | 146.137698 | 145557 | 0.006063394 |
| 56.55594141 | 87034 | 0.003626 | 0.056453964 | 168.489711 | 122079 | 0.005085383 |
| 53.25880814 | 88159 | 0.003672 | 0.060126359 | 166.339608 | 119206 | 0.004965704 |
| 49.61693073 | 93958 | 0.003914 | 0.06404032 | 156.073283 | 123460 | 0.005142911 |
| 56.40106574 | 82004 | 0.003416 | 0.067456319 | 178.824612 | 104910 | 0.004370183 |
| 53.51614496 | 83544 | 0.00348 | 0.070936469 | 175.528266 | 104493 | 0.004352812 |
| 48.76959184 | 89795 | 0.003741 | 0.074677014 | 163.30902 | 109479 | 0.004560511 |
| 57.72109777 | 78770 | 0.003281 | 0.077958296 | 186.166478 | 94097 | 0.003919751 |
| 54.82260257 | 80688 | 0.003361 | 0.081319475 | 181.741194 | 94937 | 0.003954743 |
| 47.87962939 | 86845 | 0.003618 | 0.084937133 | 168.856393 | 101314 | 0.004220386 |
| 53.03498874 | 76422 | 0.003183 | 0.088120606 | 191.886283 | 88362 | 0.003680851 |
| 51.73553348 | 78466 | 0.003269 | 0.091389224 | 186.887741 | 90237 | 0.003758957 |
| 46.69054682 | 84681 | 0.003528 | 0.094916738 | 173.171473 | 97497 | 0.004061383 |
| 49.7173576 | 74504 | 0.003104 | 0.098020313 | 196.826123 | 86197 | 0.003590665 |
| 43.8509672 | 76625 | 0.003192 | 0.101212242 | 191.377925 | 88749 | 0.003696972 |
| 41.6383911 | 82915 | 0.003454 | 0.10466619 | 176.859838 | 96500 | 0.004019852 |
| 50.18474401 | 73139 | 0.003047 | 0.107712905 | 200.499508 | 86289 | 0.003594497 |
| 50.46799359 | 75357 | 0.003139 | 0.110852013 | 194.598159 | 89555 | 0.003730547 |
| 51.8075473 | 81455 | 0.003393 | 0.114245143 | 180.029875 | 97349 | 0.004055218 |
| 66.58040178 | 72175 | 0.003007 | 0.1172517 | 203.177464 | 86427 | 0.003600246 |
| 70.26681757 | 74270 | 0.003094 | 0.120345528 | 197.446257 | 88753 | 0.003697139 |
| 69.1472481 | 80655 | 0.00336 | 0.123705333 | 181.815554 | 96415 | 0.004016311 |
| 81.56957505 | 71379 | 0.002973 | 0.126678732 | 205.443247 | 84742 | 0.003530055 |
| 80.22195929 | 73433 | 0.003059 | 0.129737693 | 199.696778 | 86735 | 0.003613076 |
| 74.52222044 | 79793 | 0.003324 | 0.13306159 | 183.779699 | 93261 | 0.003884926 |
| 84.17135514 | 70732 | 0.002946 | 0.136008037 | 207.322478 | 82309 | 0.003428704 |
| 80.14873687 | 72945 | 0.003039 | 0.13904667 | 201.032744 | 84273 | 0.003510518 |
| 72.75346292 | 79302 | 0.003303 | 0.142350113 | 184.917574 | 90696 | 0.003778077 |
| 82.45940661 | 70506 | 0.002937 | 0.145287146 | 207.987029 | 79965 | 0.003331062 |
| 79.85022158 | 72650 | 0.003026 | 0.14831349 | 201.84905 | 82291 | 0.003427955 |
| 73.6571759 | 78962 | 0.003289 | 0.15160277 | 185.713805 | 89013 | 0.00370797 |
| 84.13223959 | 70014 | 0.002917 | 0.154519308 | 209.448589 | 78640 | 0.003275867 |
| 82.58060488 | 72151 | 0.003006 | 0.157524866 | 203.245048 | 80694 | 0.003361429 |
| 77.22663212 | 78583 | 0.003273 | 0.160798358 | 186.609489 | 87551 | 0.003647068 |
| 88.42458691 | 69652 | 0.002901 | 0.163699816 | 210.537149 | 77467 | 0.003227004 |
| 85.11572837 | 71831 | 0.002992 | 0.166692044 | 204.150485 | 79371 | 0.003306318 |
| 78.10189388 | 78086 | 0.003253 | 0.169944833 | 187.797217 | 86095 | 0.003586416 |

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|-------------|-------|----------|-------------|------------|-------|-------------|
| 87.85878144 | 69366 | 0.00289 | 0.172834377 | 211.405206 | 76263 | 0.003176849 |
| 84.13948047 | 71483 | 0.002978 | 0.175812108 | 205.144349 | 78704 | 0.003278533 |
| 76.5861522 | 77833 | 0.003242 | 0.179054358 | 188.407661 | 85312 | 0.003553799 |
| 86.87041114 | 69021 | 0.002875 | 0.181929531 | 212.46191 | 75742 | 0.003155146 |
| 84.73946266 | 71331 | 0.002971 | 0.18490093 | 205.581493 | 78428 | 0.003267036 |
| 78.37949636 | 77608 | 0.003233 | 0.188133808 | 188.95389 | 85371 | 0.003556257 |
| 88.35585858 | 68804 | 0.002866 | 0.190999941 | 213.131991 | 75979 | 0.003165019 |
| 85.715233 | 71129 | 0.002963 | 0.193962926 | 206.165326 | 78656 | 0.003276533 |
| 79.56687118 | 77315 | 0.003221 | 0.197183598 | 189.669967 | 85778 | 0.003573211 |
| 90.25093851 | 68699 | 0.002862 | 0.200045357 | 213.457743 | 76391 | 0.003182181 |
| 86.52443028 | 71123 | 0.002963 | 0.203008092 | 206.182719 | 78640 | 0.003275867 |
| 78.56804893 | 77453 | 0.003226 | 0.206234512 | 189.332027 | 85634 | 0.003567212 |
| 87.81406103 | 68807 | 0.002866 | 0.209100771 | 213.122698 | 75780 | 0.003156729 |
| 83.43669841 | 70973 | 0.002956 | 0.212057257 | 206.618482 | 78440 | 0.003267535 |
| 75.61234341 | 77284 | 0.003219 | 0.215276638 | 189.746047 | 85260 | 0.003551633 |
| 85.8321295 | 68596 | 0.002857 | 0.218134107 | 213.77826 | 75699 | 0.003153355 |
| 83.94297167 | 70849 | 0.002951 | 0.221085428 | 206.980105 | 78110 | 0.003253789 |
| 77.95947674 | 77155 | 0.003214 | 0.224299434 | 190.063295 | 84846 | 0.003534387 |
| 88.41605666 | 68482 | 0.002853 | 0.227152154 | 214.13413 | 75328 | 0.0031379 |
| 85.20969856 | 70742 | 0.002947 | 0.230099018 | 207.293171 | 77638 | 0.003234127 |
| 78.93726446 | 76960 | 0.003206 | 0.233304902 | 190.544874 | 84441 | 0.003517516 |
| 89.75818659 | 68246 | 0.002843 | 0.236147791 | 214.874623 | 74882 | 0.003119322 |
| 86.05324507 | 70629 | 0.002942 | 0.239089948 | 207.624821 | 77134 | 0.003213132 |
| 77.76351971 | 76708 | 0.003195 | 0.242285334 | 191.170849 | 83503 | 0.003478442 |
| 87.62254265 | 68218 | 0.002842 | 0.245127057 | 214.962818 | 74042 | 0.00308433 |
| 83.94969941 | 70375 | 0.002932 | 0.248058632 | 208.374188 | 76367 | 0.003181181 |
| 76.15303739 | 76636 | 0.003192 | 0.251251019 | 191.350455 | 83037 | 0.00345903 |
| 85.66466 | 68077 | 0.002836 | 0.254086869 | 215.408045 | 73535 | 0.00306321 |
| 83.27938333 | 70346 | 0.00293 | 0.257017236 | 208.46009 | 75885 | 0.003161103 |
| 77.62726364 | 76618 | 0.003192 | 0.260208874 | 191.39541 | 82828 | 0.003450324 |
| 88.49342224 | 68015 | 0.002833 | 0.26304214 | 215.604403 | 73545 | 0.003063627 |
| 85.82358979 | 70430 | 0.002934 | 0.265976007 | 208.211465 | 76057 | 0.003168268 |
| 79.37049271 | 76529 | 0.003188 | 0.269163937 | 191.617994 | 82913 | 0.003453865 |
| 90.26538239 | 67903 | 0.002829 | 0.271992538 | 215.960024 | 73690 | 0.003069667 |
| 86.59238314 | 70327 | 0.00293 | 0.274922114 | 208.516409 | 76446 | 0.003184472 |
| 78.97977882 | 76658 | 0.003193 | 0.278115417 | 191.29554 | 83297 | 0.003469861 |
| 88.7376085 | 68073 | 0.002836 | 0.2809511 | 215.420703 | 74109 | 0.003087121 |
| 85.35948947 | 70638 | 0.002943 | 0.283893631 | 207.598368 | 76705 | 0.003195261 |
| 77.53573464 | 76698 | 0.003195 | 0.287088601 | 191.195774 | 83870 | 0.00349373 |
| 86.17055961 | 68235 | 0.002842 | 0.289931032 | 214.909262 | 74566 | 0.003106158 |
| 82.41584374 | 70501 | 0.002937 | 0.292867857 | 208.00178 | 77052 | 0.003209716 |
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| 85.44005811 | 68053 | 0.002835 | 0.298897426 | 215.484012 | 74678 | 0.003110824 |
| 82.28958661 | 70447 | 0.002935 | 0.301832001 | 208.16122 | 77080 | 0.003210883 |
| 76.31989452 | 76612 | 0.003191 | 0.305023388 | 191.410399 | 83479 | 0.003477442 |
| 87.27003757 | 68028 | 0.002834 | 0.307857196 | 215.563202 | 74084 | 0.00308608 |
| 84.87925063 | 70237 | 0.002926 | 0.310783023 | 208.783597 | 76515 | 0.003187347 |

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| 78.03456502 | 76461 | 0.003185 | 0.313968121 | 191.788408 | 82939 | 0.003454948 |
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| 84.94808745 | 70180 | 0.002923 | 0.328663407 | 208.95317 | 75369 | 0.003139608 |
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| 78.65317278 | 76620 | 0.003192 | 0.340795528 | 191.390414 | 81954 | 0.003413916 |
| 89.08477254 | 68105 | 0.002837 | 0.343632543 | 215.319485 | 72908 | 0.003037092 |
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| 78.40841328 | 142275 | 0.005927 | 0.352488214 | 103.070346 | 82216 | 0.00342483 |
| 88.22349862 | 2439 | 0.000102 | 0.352589814 | 150.234025 | 72860 | 0.003035092 |
| 85.14142592 | 70400 | 0.002933 | 0.355522431 | 208.300192 | 75384 | 0.003140233 |
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| 89.17795348 | 68100 | 0.002837 | 0.361547752 | 215.335294 | 73136 | 0.003046589 |
| 85.55021523 | 70482 | 0.002936 | 0.364483785 | 208.057852 | 75556 | 0.003147398 |
| 78.56636517 | 76560 | 0.003189 | 0.367673006 | 191.540406 | 82283 | 0.003427621 |
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| 85.74380057 | 70223 | 0.002925 | 0.373431891 | 208.825221 | 75734 | 0.003154813 |
| 78.30039829 | 76528 | 0.003188 | 0.376619779 | 191.620498 | 82290 | 0.003427913 |
| 88.15720224 | 67853 | 0.002827 | 0.379446297 | 216.119162 | 72966 | 0.003039508 |
| 84.81641165 | 70217 | 0.002925 | 0.382371292 | 208.843065 | 75258 | 0.003134984 |
| 77.19167194 | 76354 | 0.003181 | 0.385551931 | 192.057174 | 81957 | 0.003414041 |
| 86.81281261 | 67803 | 0.002824 | 0.388376367 | 216.278535 | 72816 | 0.003033259 |
| 83.60128097 | 70126 | 0.002921 | 0.39129757 | 209.114073 | 75127 | 0.003129527 |
| 77.5131934 | 76285 | 0.003178 | 0.394475336 | 192.230891 | 81863 | 0.003410126 |
| 88.59286206 | 67858 | 0.002827 | 0.397302062 | 216.103238 | 72717 | 0.003029135 |
| 85.99218613 | 70173 | 0.002923 | 0.400225223 | 208.974014 | 75341 | 0.003138442 |
| 78.58573277 | 76398 | 0.003182 | 0.403407696 | 191.946563 | 81843 | 0.003409292 |
| 89.04690579 | 67781 | 0.002824 | 0.406231215 | 216.348733 | 72763 | 0.003031051 |
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| 77.6116515 | 76318 | 0.003179 | 0.412332267 | 192.14777 | 82073 | 0.003418873 |
| 86.80510432 | 67694 | 0.00282 | 0.415152161 | 216.626784 | 72920 | 0.003037592 |
| 83.29641291 | 70203 | 0.002924 | 0.418076572 | 208.884713 | 75108 | 0.003128736 |
| 75.36015979 | 76681 | 0.003194 | 0.421270834 | 191.238162 | 82011 | 0.003416291 |
| 83.55126682 | 67940 | 0.00283 | 0.424100976 | 215.842412 | 72711 | 0.003028885 |
| 78.12935748 | 70298 | 0.002928 | 0.427029344 | 208.602428 | 75241 | 0.003134276 |
| 71.67493581 | 76390 | 0.003182 | 0.430211484 | 191.966664 | 82009 | 0.003416207 |
| 82.12598353 | 67936 | 0.00283 | 0.43304146 | 215.855121 | 72882 | 0.003036009 |
| 79.98567388 | 70115 | 0.002921 | 0.435962205 | 209.14688 | 75359 | 0.003139192 |
| 73.37816865 | 76367 | 0.003181 | 0.439143386 | 192.02448 | 82030 | 0.003417082 |
| 83.20142009 | 67884 | 0.002828 | 0.441971196 | 216.020469 | 72691 | 0.003028052 |
| 80.99067443 | 70095 | 0.00292 | 0.444891107 | 209.206555 | 75176 | 0.003131569 |
| 74.24189576 | 76397 | 0.003182 | 0.448073539 | 191.949075 | 82088 | 0.003419498 |
| 82.73202122 | 67786 | 0.002824 | 0.450897266 | 216.332775 | 72828 | 0.003033759 |

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|-------------|-------|----------|-------------|------------|-------|-------------|
| 78.77570328 | 69939 | 0.002913 | 0.453810679 | 209.673194 | 75018 | 0.003124987 |
| 71.82132009 | 76385 | 0.003182 | 0.456992611 | 191.97923 | 81588 | 0.00339867 |
| 80.72184236 | 67711 | 0.002821 | 0.459813214 | 216.572396 | 72479 | 0.003019221 |
| 76.63137662 | 70111 | 0.002921 | 0.462733792 | 209.158812 | 74881 | 0.00311928 |
| 70.04028033 | 76309 | 0.003179 | 0.465912557 | 192.170432 | 81417 | 0.003391547 |
| 79.94381323 | 67701 | 0.00282 | 0.468732744 | 216.604385 | 72445 | 0.003017805 |
| 77.83492563 | 69933 | 0.002913 | 0.471645907 | 209.691183 | 74901 | 0.003120113 |
| 72.08823772 | 76351 | 0.003181 | 0.474826422 | 192.064721 | 81417 | 0.003391547 |
| 82.60665555 | 67792 | 0.002824 | 0.477650399 | 216.313628 | 72330 | 0.003013014 |
| 81.0770972 | 70429 | 0.002934 | 0.480584225 | 208.214422 | 74516 | 0.003104075 |
| 75.57376568 | 76489 | 0.003186 | 0.483770488 | 191.718201 | 81342 | 0.003388423 |
| 84.78159576 | 67905 | 0.002829 | 0.486599172 | 215.953663 | 72148 | 0.003005433 |
| 81.07351124 | 70285 | 0.002928 | 0.489526999 | 208.641011 | 74347 | 0.003097035 |
| 74.38990652 | 76375 | 0.003182 | 0.492708514 | 192.004367 | 80889 | 0.003369552 |
| 84.31606012 | 67909 | 0.002829 | 0.495537365 | 215.940943 | 71723 | 0.002987729 |
| 80.77475402 | 70171 | 0.002923 | 0.498460443 | 208.97997 | 74160 | 0.003089246 |
| 73.1614439 | 76557 | 0.003189 | 0.501649539 | 191.547912 | 80501 | 0.003353389 |
| 82.72642059 | 67842 | 0.002826 | 0.504475599 | 216.154204 | 71555 | 0.00298073 |
| 79.67797817 | 70048 | 0.002918 | 0.507393553 | 209.346926 | 74122 | 0.003087663 |
| 72.53574269 | 76369 | 0.003181 | 0.510574818 | 192.019452 | 80719 | 0.003362471 |
| 81.67816002 | 67759 | 0.002823 | 0.51339742 | 216.418977 | 71565 | 0.002981147 |
| 79.43799596 | 70037 | 0.002917 | 0.516314916 | 209.379806 | 73885 | 0.00307779 |
| 74.537372 | 76218 | 0.003175 | 0.51948989 | 192.399873 | 80627 | 0.003358638 |
| 85.05796555 | 67797 | 0.002824 | 0.522314076 | 216.297675 | 71648 | 0.002984604 |
| 81.72732259 | 70025 | 0.002917 | 0.525231072 | 209.415687 | 74012 | 0.00308308 |
| 74.71814968 | 76183 | 0.003174 | 0.528404588 | 192.488265 | 80554 | 0.003355597 |
| 84.25598835 | 67672 | 0.002819 | 0.531223567 | 216.697208 | 71868 | 0.002993769 |
| 80.7445103 | 70002 | 0.002916 | 0.534139605 | 209.484493 | 74552 | 0.003105575 |
| 73.74310933 | 76167 | 0.003173 | 0.537312455 | 192.5287 | 81331 | 0.003387964 |
| 83.55793191 | 67794 | 0.002824 | 0.540136515 | 216.307247 | 72458 | 0.003018346 |
| 80.71428921 | 69898 | 0.002912 | 0.543048221 | 209.796181 | 75220 | 0.003133401 |
| 74.16529773 | 76125 | 0.003171 | 0.546219321 | 192.634923 | 82387 | 0.003431954 |
| 84.0444828 | 67680 | 0.002819 | 0.549038633 | 216.671594 | 73177 | 0.003048297 |
| 82.04190114 | 69810 | 0.002908 | 0.551946673 | 210.060643 | 75777 | 0.003156604 |
| 76.80999331 | 76258 | 0.003177 | 0.555123314 | 192.298952 | 82501 | 0.003436702 |
| 88.08783049 | 67780 | 0.002823 | 0.557946791 | 216.351925 | 73208 | 0.003049589 |
| 84.99387653 | 70160 | 0.002923 | 0.560869411 | 209.012735 | 75464 | 0.003143566 |
| 77.78331862 | 76190 | 0.003174 | 0.564043219 | 192.47058 | 81914 | 0.00341225 |
| 87.68436674 | 67719 | 0.002821 | 0.566864155 | 216.546811 | 72709 | 0.003028802 |
| 83.10711468 | 69965 | 0.002914 | 0.569778652 | 209.595276 | 75005 | 0.003124445 |
| 73.84337088 | 76242 | 0.003176 | 0.572954626 | 192.339308 | 81566 | 0.003397754 |
| 81.51289865 | 67657 | 0.002818 | 0.575772979 | 216.745252 | 72524 | 0.003021096 |
| 78.26780116 | 69859 | 0.00291 | 0.57868306 | 209.913304 | 74709 | 0.003112115 |
| 71.98985514 | 76071 | 0.003169 | 0.581851912 | 192.771667 | 81541 | 0.003396712 |
| 81.75329338 | 67609 | 0.002816 | 0.584668266 | 216.899133 | 72513 | 0.003020637 |
| 79.42852999 | 69791 | 0.002907 | 0.587575514 | 210.11783 | 75050 | 0.00312632 |
| 74.53244707 | 76103 | 0.00317 | 0.590745698 | 192.69061 | 81816 | 0.003408168 |

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|-------------|-------|----------|-------------|------------|-------|-------------|
| 85.715233 | 67479 | 0.002811 | 0.593556637 | 217.316995 | 72722 | 0.003029344 |
| 82.58990681 | 69841 | 0.002909 | 0.596465968 | 209.967404 | 75172 | 0.003131402 |
| 74.50404669 | 76030 | 0.003167 | 0.599633111 | 192.875621 | 81772 | 0.003406335 |
| 83.01866232 | 67732 | 0.002821 | 0.602454589 | 216.505249 | 72659 | 0.003026719 |
| 78.94406368 | 69750 | 0.002906 | 0.605360129 | 210.24134 | 75281 | 0.003135943 |
| 71.16017709 | 76072 | 0.003169 | 0.608529022 | 192.769133 | 82196 | 0.003423997 |
| 80.47289092 | 67538 | 0.002813 | 0.611342418 | 217.127151 | 72973 | 0.003039799 |
| 78.59162916 | 70129 | 0.002921 | 0.614263747 | 209.105128 | 75592 | 0.003148898 |
| 73.91893244 | 76356 | 0.003181 | 0.617444447 | 192.052144 | 82386 | 0.003431912 |
| 84.50652913 | 67924 | 0.002829 | 0.620273946 | 215.893256 | 73294 | 0.003053171 |
| 81.49206156 | 70109 | 0.00292 | 0.623194441 | 209.164779 | 75767 | 0.003156188 |
| 75.25612619 | 76362 | 0.003181 | 0.626375414 | 192.037054 | 82479 | 0.003435786 |
| 85.64714862 | 67824 | 0.002825 | 0.629200724 | 216.21157 | 73238 | 0.003050838 |
| 82.32007485 | 70049 | 0.002918 | 0.63211872 | 209.343938 | 75690 | 0.00315298 |
| 74.69379243 | 76393 | 0.003182 | 0.635300984 | 191.959126 | 82412 | 0.003432995 |
| 83.69289045 | 67833 | 0.002826 | 0.638126669 | 216.182883 | 73245 | 0.00305113 |
| 80.77030499 | 70069 | 0.002919 | 0.641045498 | 209.284184 | 75766 | 0.003156146 |
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| 83.30918967 | 67697 | 0.00282 | 0.647041701 | 216.617184 | 73797 | 0.003074124 |
| 81.08427006 | 69890 | 0.002911 | 0.649953073 | 209.820196 | 76439 | 0.003184181 |
| 75.94794749 | 76181 | 0.003173 | 0.653126506 | 192.493318 | 83269 | 0.003468695 |
| 87.66339965 | 67575 | 0.002815 | 0.655941444 | 217.008265 | 74215 | 0.003091537 |
| 85.62014511 | 69992 | 0.002916 | 0.658857065 | 209.514423 | 76999 | 0.003207508 |
| 79.04661883 | 76008 | 0.003166 | 0.662023292 | 192.931448 | 83751 | 0.003488773 |
| 89.51764791 | 67647 | 0.002818 | 0.664841229 | 216.777292 | 74481 | 0.003102617 |
| 86.22071798 | 69816 | 0.002908 | 0.667749519 | 210.04259 | 76976 | 0.00320655 |
| 78.12186549 | 76063 | 0.003169 | 0.670918037 | 192.791942 | 83939 | 0.003496604 |
| 87.27886757 | 67582 | 0.002815 | 0.673733266 | 216.985788 | 74562 | 0.003105992 |
| 83.73590154 | 69973 | 0.002915 | 0.676648096 | 209.571313 | 77134 | 0.003213132 |
| 76.54457687 | 76072 | 0.003169 | 0.679816989 | 192.769133 | 84169 | 0.003506185 |
| 85.14785273 | 67603 | 0.002816 | 0.682633092 | 216.918384 | 75102 | 0.003128486 |
| 81.21224964 | 69705 | 0.002904 | 0.685536758 | 210.377068 | 77609 | 0.003232919 |
| 75.37294208 | 76057 | 0.003168 | 0.688705026 | 192.807151 | 84771 | 0.003531263 |
| 87.02507013 | 67568 | 0.002815 | 0.691519672 | 217.030747 | 75324 | 0.003137734 |
| 85.31082413 | 69713 | 0.002904 | 0.694423672 | 210.352925 | 78042 | 0.003250956 |
| 78.9653188 | 76262 | 0.003177 | 0.697600479 | 192.288866 | 84866 | 0.00353522 |
| 89.54443226 | 67481 | 0.002811 | 0.700411501 | 217.310554 | 75200 | 0.003132568 |
| 86.22680175 | 69810 | 0.002908 | 0.703319541 | 210.060643 | 77686 | 0.003236126 |
| 78.53901418 | 76007 | 0.003166 | 0.706485726 | 192.933986 | 84593 | 0.003523848 |
| 87.81300933 | 67497 | 0.002812 | 0.709297414 | 217.259041 | 74876 | 0.003119072 |
| 84.20325398 | 69658 | 0.002902 | 0.712199122 | 210.519014 | 77343 | 0.003221838 |
| 77.78331862 | 75940 | 0.003163 | 0.715362517 | 193.104207 | 84264 | 0.003510143 |
| 87.92937444 | 67309 | 0.002804 | 0.718166374 | 217.865865 | 74845 | 0.00311778 |
| 84.24485542 | 69661 | 0.002902 | 0.721068207 | 210.509948 | 77579 | 0.003231669 |
| 77.48288585 | 75797 | 0.003157 | 0.724225644 | 193.468521 | 84530 | 0.003521223 |
| 88.51959709 | 67336 | 0.002805 | 0.727030626 | 217.778506 | 75124 | 0.003129402 |
| 86.7188649 | 69588 | 0.002899 | 0.729929418 | 210.73078 | 77870 | 0.003243791 |

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|-------------|-------|----------|-------------|------------|-------|-------------|
| 80.66056937 | 75841 | 0.003159 | 0.733088688 | 193.356278 | 84957 | 0.003539011 |
| 91.56223888 | 67498 | 0.002812 | 0.735900418 | 217.255822 | 75302 | 0.003136817 |
| 88.79725266 | 69648 | 0.002901 | 0.738801709 | 210.54924 | 77675 | 0.003235668 |
| 81.49251442 | 75734 | 0.003155 | 0.741956522 | 193.62946 | 84797 | 0.003532346 |
| 91.25228526 | 67288 | 0.002803 | 0.744759505 | 217.933859 | 75272 | 0.003135568 |
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| 80.28784208 | 75829 | 0.003159 | 0.750820733 | 193.386877 | 84720 | 0.003529138 |
| 90.15494871 | 67518 | 0.002813 | 0.753633296 | 217.191467 | 75350 | 0.003138817 |
| 85.69870259 | 69817 | 0.002908 | 0.756541627 | 210.039582 | 77822 | 0.003241792 |
| 76.61896461 | 76029 | 0.003167 | 0.759708729 | 192.878158 | 84570 | 0.00352289 |
| 85.77690261 | 67579 | 0.002815 | 0.762523833 | 216.99542 | 75211 | 0.003133027 |
| 82.96746494 | 69728 | 0.002905 | 0.765428457 | 210.307674 | 77582 | 0.003231794 |
| 76.70192113 | 75867 | 0.00316 | 0.76858881 | 193.290014 | 84602 | 0.003524223 |
| 86.48666808 | 67427 | 0.002809 | 0.771397583 | 217.484591 | 74910 | 0.003120488 |
| 83.4400217 | 69747 | 0.002905 | 0.774302998 | 210.250383 | 77256 | 0.003218214 |

| absolute time | wheel speed | 30_free | delta_t | absolute time | wheel speed | 30_load |
|---------------|-------------|---------|-------------|---------------|-------------|---------|
| 0.009562415 | 63.88184694 | 253276 | 0.01055059 | 0.01055059 | 57.8986303 | 212547 |
| 0.016347175 | 90.03483363 | 132684 | 0.00552715 | 0.01607774 | 110.520737 | 147319 |
| 0.02287229 | 93.61746601 | 112909 | 0.004703393 | 0.020781134 | 129.877454 | 109809 |
| 0.029952186 | 86.28159434 | 108233 | 0.004508607 | 0.025289741 | 135.488562 | 104377 |
| 0.036221488 | 97.43743185 | 87804 | 0.003657607 | 0.028947348 | 167.012135 | 109241 |
| 0.04275206 | 93.53923847 | 85345 | 0.003555173 | 0.032502521 | 171.824167 | 94727 |
| 0.04973248 | 87.51116537 | 87756 | 0.003655607 | 0.036158129 | 167.103486 | 94107 |
| 0.055652785 | 103.1813054 | 74170 | 0.003089662 | 0.039247791 | 197.712465 | 99032 |
| 0.061507855 | 104.3308965 | 73620 | 0.003066751 | 0.042314542 | 199.189534 | 86344 |
| 0.067571249 | 100.7463296 | 77107 | 0.003212007 | 0.045526549 | 190.181611 | 88976 |
| 0.072656632 | 120.1216712 | 66442 | 0.002767741 | 0.04829429 | 220.708791 | 97197 |
| 0.077622336 | 123.0167399 | 66646 | 0.002776239 | 0.051070529 | 220.033213 | 85077 |
| 0.082765247 | 118.7780131 | 70790 | 0.002948863 | 0.054019392 | 207.152613 | 85000 |
| 0.08713543 | 139.7801305 | 61782 | 0.002573622 | 0.056593013 | 237.356083 | 89772 |
| 0.091488242 | 140.3379508 | 62585 | 0.002607072 | 0.059200085 | 234.310673 | 78148 |
| 0.096048753 | 133.9465422 | 66997 | 0.00279086 | 0.061990945 | 218.88045 | 80074 |
| 0.099968504 | 155.8427314 | 58622 | 0.002441987 | 0.064432932 | 250.150686 | 86205 |
| 0.103923247 | 154.4638391 | 59620 | 0.00248356 | 0.066916492 | 245.963326 | 75792 |
| 0.108143633 | 144.7414325 | 64014 | 0.002666599 | 0.069583091 | 229.0801 | 77420 |
| 0.111824484 | 165.9574647 | 56032 | 0.002334097 | 0.071917188 | 261.713547 | 82999 |
| 0.115583441 | 162.5090982 | 57211 | 0.00238321 | 0.074300397 | 256.320174 | 72094 |
| 0.119644824 | 150.4080484 | 61670 | 0.002568956 | 0.076869353 | 237.787149 | 73120 |
| 0.123235489 | 170.125799 | 54296 | 0.002261781 | 0.079131134 | 270.081286 | 78018 |
| 0.126932461 | 165.2337885 | 55497 | 0.00231181 | 0.081442945 | 264.236508 | 68218 |
| 0.130952313 | 151.9620051 | 59895 | 0.002495016 | 0.083937961 | 244.834018 | 69152 |
| 0.13454681 | 169.9444135 | 52749 | 0.002197338 | 0.086135299 | 278.002114 | 74088 |
| 0.138277358 | 163.7466751 | 54170 | 0.002256532 | 0.088391831 | 270.709498 | 64619 |
| 0.142332576 | 150.6367142 | 58530 | 0.002438155 | 0.090829986 | 250.543883 | 65583 |
| 0.145932822 | 169.6730593 | 51656 | 0.002151808 | 0.092981794 | 283.884418 | 70265 |
| 0.14962996 | 165.2263416 | 53051 | 0.002209919 | 0.095191712 | 276.419549 | 61397 |
| 0.153646271 | 152.0959757 | 57537 | 0.00239679 | 0.097588502 | 254.867885 | 62673 |
| 0.157176326 | 173.0468185 | 50676 | 0.002110984 | 0.099699487 | 289.374329 | 67383 |
| 0.160789402 | 169.0705424 | 52122 | 0.00217122 | 0.101870706 | 281.346332 | 59266 |
| 0.164674328 | 157.2397196 | 56536 | 0.002355092 | 0.104225798 | 259.380457 | 60607 |
| 0.168103033 | 178.1619688 | 50046 | 0.002084741 | 0.106310539 | 293.017094 | 65078 |
| 0.17161355 | 174.0098667 | 51536 | 0.002146809 | 0.108457348 | 284.545434 | 57315 |
| 0.175391628 | 161.686662 | 55802 | 0.002324516 | 0.110781864 | 262.792256 | 58654 |
| 0.178722689 | 183.3843993 | 49330 | 0.002054915 | 0.112836779 | 297.270089 | 63435 |
| 0.182150644 | 178.2009393 | 50854 | 0.002118399 | 0.114955178 | 288.361456 | 55836 |
| 0.185858613 | 164.7437284 | 55166 | 0.002298022 | 0.1172532 | 265.821946 | 57627 |
| 0.18913448 | 186.4742306 | 48889 | 0.002036544 | 0.119289744 | 299.951594 | 62408 |
| 0.192495909 | 181.727681 | 50287 | 0.00209478 | 0.121384525 | 291.612812 | 55153 |
| 0.196142977 | 167.4947573 | 54706 | 0.00227886 | 0.123663385 | 268.057133 | 56753 |
| 0.19936998 | 189.2978106 | 48360 | 0.002014508 | 0.125677893 | 303.232702 | 61624 |
| 0.202676298 | 184.7568192 | 49860 | 0.002076993 | 0.127754886 | 294.110178 | 54721 |
| 0.206262714 | 170.3273534 | 54192 | 0.002257449 | 0.130012334 | 270.599599 | 56261 |

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|-------------|-------------|-------|-------------|-------------|------------|-------|
| 0.209439563 | 192.2863445 | 47972 | 0.001998345 | 0.13201068 | 305.685264 | 61052 |
| 0.212718096 | 186.3225947 | 49462 | 0.002060414 | 0.134071093 | 296.47676 | 54086 |
| 0.216271895 | 171.8906308 | 53679 | 0.002236079 | 0.136307172 | 273.185668 | 55721 |
| 0.219427041 | 193.6090081 | 47624 | 0.001983849 | 0.138291021 | 307.91898 | 60467 |
| 0.222694076 | 186.9782921 | 49118 | 0.002046084 | 0.140337105 | 298.553147 | 53545 |
| 0.226250333 | 171.771837 | 53314 | 0.002220874 | 0.142557979 | 275.055961 | 55201 |
| 0.229415352 | 193.0050868 | 47320 | 0.001971185 | 0.144529164 | 309.897157 | 60147 |
| 0.232691885 | 186.4362985 | 48811 | 0.002033295 | 0.146562459 | 300.430917 | 53309 |
| 0.236265096 | 170.9568129 | 53127 | 0.002213085 | 0.148775544 | 276.024121 | 54833 |
| 0.239447277 | 191.9641514 | 47105 | 0.001962229 | 0.150737773 | 311.311612 | 59600 |
| 0.242723144 | 186.4742306 | 48574 | 0.002023423 | 0.152761196 | 301.896766 | 52778 |
| 0.246290356 | 171.2442896 | 52804 | 0.00219963 | 0.154960825 | 277.71255 | 54305 |
| 0.249447085 | 193.5119226 | 46851 | 0.001951648 | 0.156912474 | 312.99937 | 59089 |
| 0.25271462 | 186.9496876 | 48342 | 0.002013758 | 0.158926232 | 303.34561 | 52277 |
| 0.256266253 | 171.9954667 | 52644 | 0.002192964 | 0.161119196 | 278.556597 | 53994 |
| 0.259419608 | 193.7189856 | 46790 | 0.001949107 | 0.163068304 | 313.407427 | 58604 |
| 0.262673397 | 187.7395147 | 48242 | 0.002009593 | 0.165077896 | 303.97441 | 52091 |
| 0.266207784 | 172.8347063 | 52446 | 0.002184716 | 0.167262613 | 279.608235 | 53517 |
| 0.269345684 | 194.6730763 | 46543 | 0.001938818 | 0.169201431 | 315.070655 | 58384 |
| 0.272579811 | 188.8808765 | 48070 | 0.002002428 | 0.171203859 | 305.062066 | 51713 |
| 0.276097327 | 173.6636645 | 52258 | 0.002176885 | 0.173380744 | 280.614135 | 53295 |
| 0.279216649 | 195.8325565 | 46345 | 0.00193057 | 0.175311314 | 316.416733 | 58006 |
| 0.282429781 | 190.11504 | 47924 | 0.001996346 | 0.17730766 | 305.991434 | 51342 |
| 0.285908223 | 175.6144509 | 52048 | 0.002168137 | 0.179475797 | 281.74634 | 52997 |
| 0.288992553 | 198.0542596 | 46179 | 0.001923655 | 0.181399452 | 317.554159 | 57497 |
| 0.292173734 | 192.0244804 | 47751 | 0.001989139 | 0.183388591 | 307.100029 | 50973 |
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| 0.298695975 | 199.4197796 | 46151 | 0.001922489 | 0.187472053 | 317.74682 | 57038 |
| 0.301857078 | 193.2441654 | 47646 | 0.001984765 | 0.189456818 | 307.776802 | 50572 |
| 0.305307402 | 177.0456065 | 51734 | 0.002155057 | 0.191611875 | 283.456402 | 52096 |
| 0.308371029 | 199.3926643 | 46091 | 0.001919989 | 0.193531864 | 318.160454 | 56521 |
| 0.311539297 | 192.8071511 | 47478 | 0.001977767 | 0.195509632 | 308.865864 | 50240 |
| 0.314993162 | 176.8641045 | 51780 | 0.002156973 | 0.197666605 | 283.204587 | 51835 |
| 0.318062829 | 199.0003188 | 45875 | 0.001910992 | 0.199577596 | 319.658496 | 56162 |
| 0.321247301 | 191.8260405 | 47525 | 0.001979725 | 0.201557321 | 308.56041 | 49917 |
| 0.324717162 | 176.0487592 | 51749 | 0.002155682 | 0.203713003 | 283.374239 | 51487 |
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| 0.330999545 | 191.178326 | 47457 | 0.001976892 | 0.20760297 | 309.002539 | 49675 |
| 0.334493275 | 174.8459937 | 51652 | 0.002151641 | 0.209754611 | 283.906402 | 51062 |
| 0.337599433 | 196.6624667 | 45873 | 0.001910908 | 0.21166552 | 319.672432 | 55680 |
| 0.340809149 | 190.3173635 | 47439 | 0.001976142 | 0.213641662 | 309.119785 | 49282 |
| 0.344306337 | 174.6731325 | 51505 | 0.002145518 | 0.21578718 | 284.716697 | 50991 |
| 0.347417161 | 196.3675178 | 45812 | 0.001908367 | 0.217695547 | 320.098085 | 55530 |
| 0.350628043 | 190.248229 | 47330 | 0.001971602 | 0.219667149 | 309.831682 | 49275 |
| 0.354105486 | 175.6649396 | 51484 | 0.002144643 | 0.221811792 | 284.832831 | 51051 |
| 0.357191565 | 197.9419779 | 45676 | 0.001902702 | 0.223714494 | 321.051176 | 55562 |
| 0.360378912 | 191.6530549 | 47217 | 0.001966895 | 0.225681389 | 310.573173 | 49365 |

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|-------------|-------------|-------|-------------|-------------|------------|-------|
| 0.36383386 | 176.8086605 | 51376 | 0.002140144 | 0.227821533 | 285.431592 | 51077 |
| 0.366897612 | 199.3845311 | 45700 | 0.001903702 | 0.229725234 | 320.882571 | 55683 |
| 0.370052383 | 193.6320163 | 47136 | 0.001963521 | 0.231688755 | 311.106871 | 49443 |
| 0.373487503 | 177.8292506 | 51301 | 0.00213702 | 0.233825775 | 285.848882 | 51043 |
| 0.376533925 | 200.518699 | 45500 | 0.00189537 | 0.235721145 | 322.293044 | 55661 |
| 0.379673534 | 194.5671761 | 47099 | 0.001961979 | 0.237683124 | 311.351271 | 49553 |
| 0.383090241 | 178.7875482 | 51276 | 0.002135978 | 0.239819103 | 285.98825 | 51098 |
| 0.38613004 | 200.9556068 | 45542 | 0.00189712 | 0.241716223 | 321.995817 | 55722 |
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| 0.395723614 | 201.1347656 | 45516 | 0.001896037 | 0.247705885 | 322.17975 | 55648 |
| 0.398862098 | 194.6369023 | 46988 | 0.001957355 | 0.249663241 | 312.086777 | 49428 |
| 0.402286928 | 178.3634997 | 51233 | 0.002134187 | 0.251797428 | 286.22828 | 51041 |
| 0.40532202 | 201.2672728 | 45504 | 0.001895537 | 0.253692965 | 322.264713 | 55594 |
| 0.408462253 | 194.5284609 | 47025 | 0.001958897 | 0.255651861 | 311.841223 | 49239 |
| 0.411885084 | 178.4676941 | 51270 | 0.002135728 | 0.25778759 | 286.021718 | 50818 |
| 0.414931674 | 200.5077321 | 45535 | 0.001896828 | 0.259684418 | 322.045317 | 55338 |
| 0.418079072 | 194.0856251 | 46974 | 0.001956772 | 0.26164119 | 312.179791 | 49133 |
| 0.421506693 | 178.2182649 | 51175 | 0.002131771 | 0.263772962 | 286.552682 | 50731 |
| 0.424552491 | 200.5598355 | 45471 | 0.001894162 | 0.265667124 | 322.498592 | 55274 |
| 0.427707304 | 193.6294596 | 46986 | 0.001957272 | 0.267624396 | 312.100062 | 48950 |
| 0.431135217 | 178.2031048 | 51060 | 0.002126981 | 0.269751377 | 287.198071 | 50699 |
| 0.434174724 | 200.9748855 | 45519 | 0.001896162 | 0.271647539 | 322.158516 | 55204 |
| 0.437309709 | 194.8541483 | 46848 | 0.001951523 | 0.273599062 | 313.019414 | 48871 |
| 0.44072375 | 178.9271629 | 51051 | 0.002126606 | 0.275725668 | 287.248702 | 50578 |
| 0.443757009 | 201.3888911 | 45421 | 0.00189208 | 0.277617747 | 322.853603 | 54946 |
| 0.446886537 | 195.1939182 | 46904 | 0.001953856 | 0.279571604 | 312.645691 | 48772 |
| 0.450296662 | 179.1326178 | 50972 | 0.002123315 | 0.281694918 | 287.6939 | 50291 |
| 0.453325798 | 201.6630704 | 45506 | 0.00189562 | 0.283590539 | 322.250549 | 54689 |
| 0.45646424 | 194.6394857 | 46896 | 0.001953523 | 0.285544062 | 312.699025 | 48547 |
| 0.459873532 | 179.1763925 | 50924 | 0.002121315 | 0.287665377 | 287.965075 | 50168 |
| 0.462904584 | 201.5355812 | 45401 | 0.001891246 | 0.289556624 | 322.995826 | 54566 |
| 0.466041817 | 194.7144345 | 46864 | 0.00195219 | 0.291508813 | 312.912545 | 48484 |
| 0.469460691 | 178.6742716 | 51063 | 0.002127106 | 0.293635919 | 287.181198 | 50050 |
| 0.472498282 | 201.1016661 | 45470 | 0.001894121 | 0.29553004 | 322.505685 | 54398 |
| 0.475627018 | 195.2432962 | 46862 | 0.001952107 | 0.297482146 | 312.925899 | 48403 |
| 0.479043309 | 178.8093487 | 51076 | 0.002127647 | 0.299609794 | 287.108103 | 49877 |
| 0.482072195 | 201.6797114 | 45445 | 0.001893079 | 0.301502873 | 322.6831 | 54293 |
| 0.485206471 | 194.8981738 | 46832 | 0.001950857 | 0.30345373 | 313.126356 | 48210 |
| 0.488622678 | 178.8137094 | 51096 | 0.00212848 | 0.30558221 | 286.995724 | 49809 |
| 0.491658687 | 201.2065187 | 45442 | 0.001892954 | 0.307475164 | 322.704403 | 54185 |
| 0.494797879 | 194.5929948 | 46816 | 0.00195019 | 0.309425355 | 313.233371 | 48258 |
| 0.498214961 | 178.7679324 | 51067 | 0.002127272 | 0.311552627 | 287.158703 | 49725 |
| 0.501243013 | 201.735201 | 45365 | 0.001889747 | 0.313442374 | 323.252144 | 54248 |
| 0.504374582 | 195.0666901 | 46822 | 0.00195044 | 0.315392814 | 313.193232 | 48250 |
| 0.50779408 | 178.6416223 | 51036 | 0.002125981 | 0.317518795 | 287.333127 | 49879 |
| 0.510827839 | 201.3557079 | 45332 | 0.001888372 | 0.319407167 | 323.487459 | 54365 |

| | | | | | | |
|-------------|-------------|-------|-------------|-------------|------------|-------|
| 0.513952826 | 195.477532 | 46867 | 0.001952315 | 0.321359482 | 312.892515 | 48315 |
| 0.517351496 | 179.7364011 | 51026 | 0.002125564 | 0.323485047 | 287.389439 | 50010 |
| 0.520370717 | 202.3252734 | 45276 | 0.001886039 | 0.325371086 | 323.887567 | 54361 |
| 0.523489997 | 195.8351717 | 46821 | 0.001950399 | 0.327321485 | 313.199921 | 48260 |
| 0.526881544 | 180.1139012 | 51010 | 0.002124898 | 0.329446382 | 287.479582 | 49882 |
| 0.529899348 | 202.420229 | 45375 | 0.001890163 | 0.331336546 | 323.180903 | 54232 |
| 0.533019462 | 195.78288 | 46887 | 0.001953148 | 0.333289694 | 312.759048 | 48193 |
| 0.536411008 | 180.1139012 | 51067 | 0.002127272 | 0.335416966 | 287.158703 | 49802 |
| 0.539424023 | 202.7420641 | 45336 | 0.001888539 | 0.337305505 | 323.458918 | 54186 |
| 0.542528098 | 196.7944266 | 46876 | 0.00195269 | 0.339258195 | 312.832441 | 48112 |
| 0.54591652 | 180.2799721 | 51065 | 0.002127189 | 0.341385384 | 287.16995 | 49699 |
| 0.548921953 | 203.2534997 | 45401 | 0.001891246 | 0.34327663 | 322.995826 | 54230 |
| 0.552018988 | 197.2417649 | 46949 | 0.001955731 | 0.345232361 | 312.346024 | 48142 |
| 0.555388541 | 181.2895881 | 51073 | 0.002127522 | 0.347359883 | 287.124968 | 49703 |
| 0.558376269 | 204.4578935 | 45461 | 0.001893746 | 0.349253629 | 322.569532 | 54117 |
| 0.561465515 | 197.7391248 | 46934 | 0.001955106 | 0.351208735 | 312.445849 | 48096 |
| 0.564818904 | 182.1633706 | 51064 | 0.002127147 | 0.353335882 | 287.175574 | 49715 |
| 0.567799635 | 204.9379288 | 45417 | 0.001891913 | 0.355227795 | 322.882037 | 54125 |
| 0.570887298 | 197.8404994 | 46918 | 0.001954439 | 0.357182234 | 312.5524 | 48051 |
| 0.574249768 | 181.671397 | 51117 | 0.002129355 | 0.359311589 | 286.877819 | 49716 |
| 0.577230915 | 204.9092922 | 45364 | 0.001889705 | 0.361201295 | 323.259269 | 54141 |
| 0.580308705 | 198.4751099 | 46909 | 0.001954064 | 0.363155359 | 312.612366 | 48098 |
| 0.583667343 | 181.8786944 | 51060 | 0.002126981 | 0.36528234 | 287.198071 | 49776 |
| 0.586651948 | 204.6719168 | 45402 | 0.001891288 | 0.367173628 | 322.988712 | 54180 |
| 0.589735028 | 198.1345389 | 46911 | 0.001954148 | 0.369127776 | 312.599038 | 48280 |
| 0.593090625 | 182.0435173 | 51030 | 0.002125731 | 0.371253506 | 287.366911 | 49856 |
| 0.596084394 | 204.0453817 | 45422 | 0.001892121 | 0.373145628 | 322.846495 | 54195 |
| 0.599189969 | 196.6993976 | 47019 | 0.001958647 | 0.375104274 | 311.881016 | 48130 |
| 0.602577934 | 180.304355 | 51031 | 0.002125773 | 0.377230047 | 287.36128 | 49758 |
| 0.60559628 | 202.383912 | 45420 | 0.001892038 | 0.379122085 | 322.860711 | 54074 |
| 0.608729681 | 194.9525857 | 46960 | 0.001956189 | 0.381078274 | 312.27286 | 48000 |
| 0.612161635 | 177.9932938 | 51086 | 0.002128064 | 0.383206338 | 287.051903 | 49644 |
| 0.615209932 | 200.3953905 | 45473 | 0.001894246 | 0.385100583 | 322.484408 | 53966 |
| 0.618366536 | 193.5195837 | 47027 | 0.00195898 | 0.387059563 | 311.82796 | 47952 |
| 0.621803239 | 177.7473424 | 51101 | 0.002128689 | 0.389188252 | 286.967642 | 49541 |
| 0.624852827 | 200.3105329 | 45523 | 0.001896329 | 0.39108458 | 322.130209 | 53923 |
| 0.627996393 | 194.3222396 | 46948 | 0.001955689 | 0.393040269 | 312.352677 | 47884 |
| 0.631408643 | 179.0210891 | 51206 | 0.002133062 | 0.395173332 | 286.379203 | 49487 |
| 0.634437445 | 201.6852589 | 45504 | 0.001895537 | 0.397068869 | 322.264713 | 53683 |
| 0.637561891 | 195.5114125 | 46919 | 0.001954481 | 0.39902335 | 312.545738 | 47691 |
| 0.640959644 | 179.7848796 | 51146 | 0.002130563 | 0.401153913 | 286.715158 | 49175 |
| 0.64398074 | 202.1997338 | 45412 | 0.001891705 | 0.403045618 | 322.917588 | 53528 |
| 0.647092855 | 196.2860364 | 46944 | 0.001955522 | 0.40500114 | 312.379292 | 47582 |
| 0.650489567 | 179.8400006 | 51119 | 0.002129438 | 0.407130579 | 286.866595 | 48972 |
| 0.653510204 | 202.2304069 | 45348 | 0.001889039 | 0.409019617 | 323.373324 | 53389 |
| 0.656636524 | 195.3941838 | 46894 | 0.00195344 | 0.410973057 | 312.712362 | 47340 |
| 0.660044692 | 179.2355223 | 51062 | 0.002127064 | 0.413100121 | 287.186822 | 48917 |

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|-------------|-------------|-------|-------------|-------------|------------|-------|
| 0.663074035 | 201.6492051 | 45379 | 0.00189033 | 0.414990451 | 323.152416 | 53220 |
| 0.666205437 | 195.0770698 | 46838 | 0.001951107 | 0.416941558 | 313.086244 | 47232 |
| 0.669611772 | 179.3319656 | 51106 | 0.002128897 | 0.419070455 | 286.939567 | 48751 |
| 0.672638492 | 201.8240479 | 45308 | 0.001887372 | 0.420957827 | 323.658813 | 53165 |
| 0.675774434 | 194.7946161 | 46901 | 0.001953731 | 0.422911558 | 312.665689 | 47162 |
| 0.679198431 | 178.4068993 | 51103 | 0.002128772 | 0.42504033 | 286.956411 | 48784 |
| 0.682238231 | 200.9556068 | 45395 | 0.001890997 | 0.426931327 | 323.038517 | 52995 |
| 0.685387128 | 193.9931936 | 46946 | 0.001955606 | 0.428886932 | 312.365984 | 47088 |
| 0.68881904 | 177.9954542 | 51135 | 0.002130105 | 0.431017037 | 286.776836 | 48648 |
| 0.691872211 | 200.0754972 | 45407 | 0.001891496 | 0.432908534 | 322.953146 | 53038 |
| 0.695028399 | 193.5451251 | 46869 | 0.001952398 | 0.434860932 | 312.879163 | 47196 |
| 0.698464185 | 177.7947537 | 51092 | 0.002128314 | 0.436989245 | 287.018193 | 48813 |
| 0.701515023 | 200.228481 | 45491 | 0.001894996 | 0.438884241 | 322.356807 | 53161 |
| 0.704668003 | 193.74202 | 46973 | 0.00195673 | 0.440840972 | 312.186437 | 47307 |
| 0.708100998 | 177.9392988 | 51118 | 0.002129397 | 0.442970368 | 286.872207 | 48997 |
| 0.711152128 | 200.2093453 | 45433 | 0.001892579 | 0.444862948 | 322.768329 | 53256 |
| 0.714308274 | 193.5476796 | 46899 | 0.001953648 | 0.446816596 | 312.679023 | 47495 |
| 0.717763472 | 176.7958707 | 51164 | 0.002131313 | 0.448947908 | 286.614289 | 49053 |
| 0.720837596 | 198.7117836 | 45370 | 0.001889955 | 0.450837864 | 323.21652 | 53506 |
| 0.724021777 | 191.8436072 | 46875 | 0.001952648 | 0.452790512 | 312.839115 | 47641 |
| 0.727490472 | 176.1079573 | 51017 | 0.002125189 | 0.454915701 | 287.440137 | 49181 |
| 0.730582008 | 197.5925823 | 45368 | 0.001889872 | 0.456805573 | 323.230768 | 53700 |
| 0.733789517 | 190.4483629 | 46794 | 0.001949274 | 0.458754847 | 313.380636 | 47745 |
| 0.73727829 | 175.0944286 | 50967 | 0.002123107 | 0.460877953 | 287.722124 | 49587 |
| 0.740380907 | 196.8869039 | 45324 | 0.001888039 | 0.462765992 | 323.544557 | 53908 |
| 0.743587457 | 190.5052678 | 46807 | 0.001949816 | 0.464715808 | 313.293599 | 47941 |
| 0.747084062 | 174.7022658 | 50905 | 0.002120524 | 0.466836332 | 288.072557 | 49489 |
| 0.750190053 | 196.673017 | 45330 | 0.001888289 | 0.468724621 | 323.501732 | 53886 |
| 0.753403185 | 190.11504 | 46781 | 0.001948732 | 0.470673353 | 313.467722 | 47875 |
| 0.756909371 | 174.2248749 | 50994 | 0.002124231 | 0.472797584 | 287.569783 | 49468 |
| 0.760037857 | 195.2588945 | 45203 | 0.001882999 | 0.474680583 | 324.410625 | 53955 |
| 0.763270776 | 188.9514553 | 46797 | 0.001949399 | 0.476629982 | 313.360546 | 47777 |
| 0.766802038 | 172.9876195 | 51062 | 0.002127064 | 0.478757046 | 287.186822 | 49434 |
| 0.769939772 | 194.6834142 | 45362 | 0.001889622 | 0.480646668 | 323.273522 | 53807 |
| 0.773190728 | 187.903097 | 46810 | 0.00194994 | 0.482596608 | 313.27352 | 47780 |
| 0.776725948 | 172.7939751 | 50988 | 0.002123981 | 0.484720589 | 287.603622 | 49423 |
| 0.779858517 | 195.0044347 | 45320 | 0.001887872 | 0.486608462 | 323.573113 | 53743 |
| 0.783094643 | 188.7641723 | 46844 | 0.001951357 | 0.488559819 | 313.046142 | 47801 |
| 0.786618491 | 173.3516188 | 50993 | 0.00212419 | 0.490684008 | 287.575422 | 49289 |
| 0.789737563 | 195.848249 | 45375 | 0.001890163 | 0.492574172 | 323.180903 | 53594 |
| 0.792959401 | 189.6013019 | 46780 | 0.001948691 | 0.494522862 | 313.474423 | 47519 |
| 0.796469544 | 174.0284522 | 50955 | 0.002122607 | 0.496645469 | 287.789883 | 49095 |
| 0.799587324 | 195.9293673 | 45339 | 0.001888664 | 0.498534133 | 323.437515 | 53368 |
| 0.802818993 | 189.0245233 | 46780 | 0.001948691 | 0.500482824 | 313.474423 | 47483 |
| 0.806340217 | 173.4808174 | 50927 | 0.00212144 | 0.502604264 | 287.948112 | 48978 |
| 0.809469619 | 195.2017131 | 45365 | 0.001889747 | 0.504494011 | 323.252144 | 53359 |
| 0.81271341 | 188.3181391 | 46809 | 0.001949899 | 0.50644391 | 313.280213 | 47293 |

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|-------------|-------------|-------|-------------|-------------|------------|-------|
| 0.816252421 | 172.6088903 | 50973 | 0.002123356 | 0.508567266 | 287.688256 | 48881 |
| 0.819389238 | 194.7402923 | 45234 | 0.00188429 | 0.510451556 | 324.188298 | 53157 |
| 0.822624906 | 188.7909043 | 46776 | 0.001948524 | 0.51240008 | 313.501229 | 47306 |
| 0.826157252 | 172.934579 | 51034 | 0.002125898 | 0.514525978 | 287.344388 | 48834 |
| 0.82929282 | 194.817907 | 45331 | 0.001888331 | 0.516414308 | 323.494595 | 53093 |
| 0.832530196 | 188.6913054 | 46919 | 0.001954481 | 0.518368789 | 312.545738 | 47208 |
| 0.836059334 | 173.0917551 | 50948 | 0.002122315 | 0.520491104 | 287.829424 | 48657 |
| 0.839198151 | 194.6162375 | 45327 | 0.001888164 | 0.522379268 | 323.523143 | 53067 |
| 0.842439943 | 188.4342923 | 46847 | 0.001951482 | 0.52433075 | 313.026095 | 47055 |
| 0.845962832 | 173.3987643 | 50877 | 0.002119357 | 0.526450107 | 288.231096 | 48740 |
| 0.849095859 | 194.9759143 | 45335 | 0.001888497 | 0.528338605 | 323.466053 | 52977 |
| 0.852327653 | 189.017214 | 46896 | 0.001953523 | 0.530292128 | 312.699025 | 47188 |
| 0.855851876 | 173.3331776 | 50933 | 0.00212169 | 0.532413818 | 287.914191 | 48858 |
| 0.858972364 | 195.7593578 | 45334 | 0.001888456 | 0.534302273 | 323.473188 | 53131 |
| 0.862190578 | 189.8148169 | 46839 | 0.001951149 | 0.536253422 | 313.07956 | 47269 |

| delta_t | absolute time | wheel speed |
|-------------|---------------|-------------|
| 0.008853963 | 0.008853963 | 68.99336849 |
| 0.006136793 | 0.014990756 | 99.54135918 |
| 0.004574258 | 0.019565014 | 133.5440036 |
| 0.00434798 | 0.023912994 | 140.4939162 |
| 0.004550597 | 0.028463591 | 134.2383674 |
| 0.003945995 | 0.032409586 | 154.8062695 |
| 0.003920168 | 0.036329753 | 155.8261712 |
| 0.004125326 | 0.040455079 | 148.0767176 |
| 0.003596788 | 0.044051868 | 169.8361611 |
| 0.003706428 | 0.047758296 | 164.8122358 |
| 0.004048886 | 0.051807182 | 150.8722851 |
| 0.00354401 | 0.055351192 | 172.3654277 |
| 0.003540802 | 0.058891994 | 172.5215705 |
| 0.003739587 | 0.06263158 | 163.350861 |
| 0.003255372 | 0.065886952 | 187.6482251 |
| 0.003335602 | 0.069222554 | 183.134769 |
| 0.003590998 | 0.072813552 | 170.1100109 |
| 0.003157229 | 0.075970781 | 193.4812842 |
| 0.003225046 | 0.079195827 | 189.4127292 |
| 0.003457447 | 0.082653274 | 176.6808455 |
| 0.003003183 | 0.085656458 | 203.405741 |
| 0.003045923 | 0.088702381 | 200.5516069 |
| 0.003249956 | 0.091952337 | 187.9609 |
| 0.002841723 | 0.09479406 | 214.9628176 |
| 0.00288063 | 0.097674689 | 212.059427 |
| 0.003086246 | 0.100760936 | 197.9312911 |
| 0.002691801 | 0.103452737 | 226.9353208 |
| 0.002731958 | 0.106184695 | 223.5996141 |
| 0.002926994 | 0.109111688 | 208.7003984 |
| 0.002557584 | 0.111669272 | 238.844463 |
| 0.002610737 | 0.114280009 | 233.9816746 |
| 0.00280694 | 0.117086949 | 217.6266045 |
| 0.002468814 | 0.119555763 | 247.4324822 |
| 0.002524675 | 0.122080438 | 241.9577523 |
| 0.002710921 | 0.124791359 | 225.334729 |
| 0.002387542 | 0.127178901 | 255.8550727 |
| 0.00244332 | 0.129622221 | 250.0142103 |
| 0.00264248 | 0.132264701 | 231.1710175 |
| 0.002325932 | 0.134590633 | 262.6322353 |
| 0.002400539 | 0.136991172 | 254.4698404 |
| 0.002599698 | 0.13959087 | 234.9752194 |
| 0.002297481 | 0.141888351 | 265.8846027 |
| 0.002364131 | 0.144252482 | 258.388693 |
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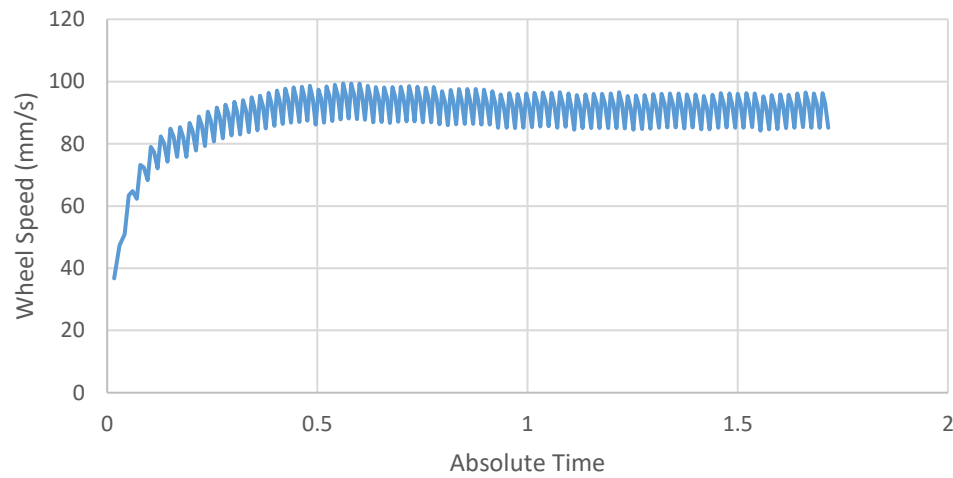
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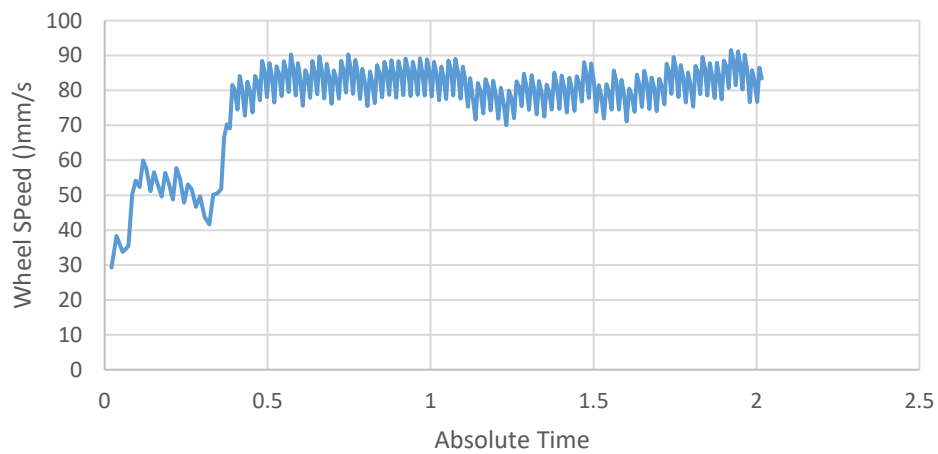
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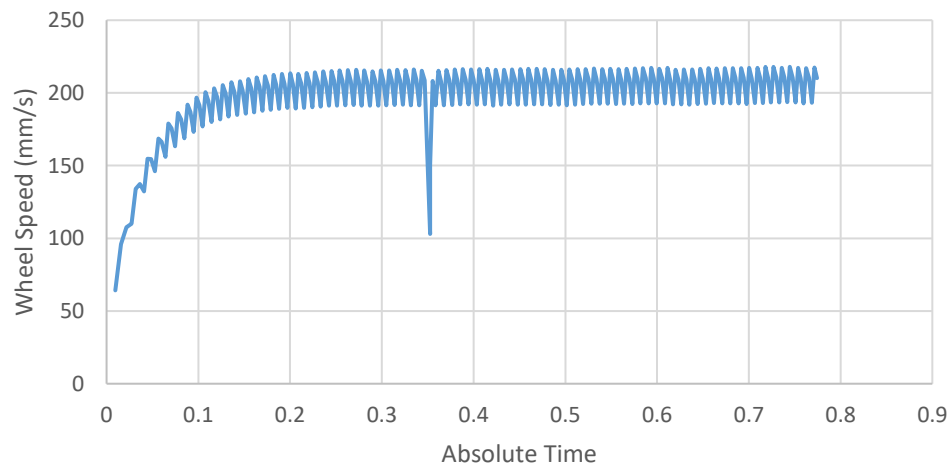
w(k) vs. t(k) 10% PWM Free



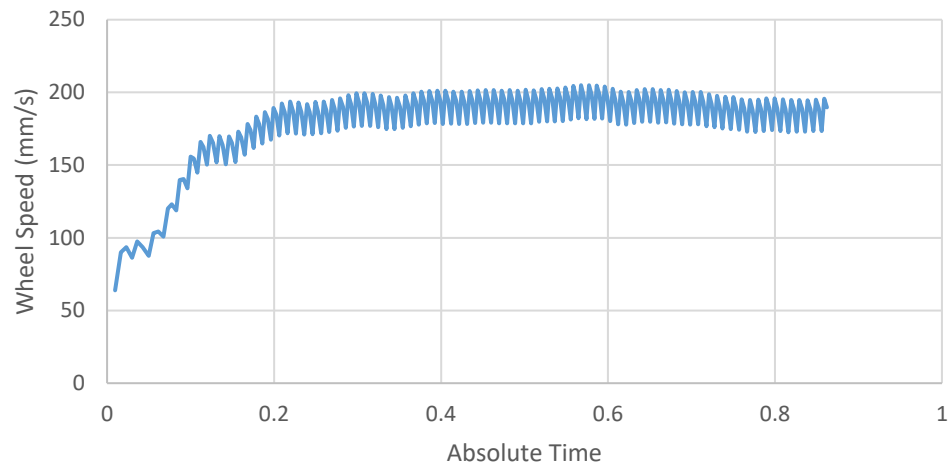
w(k) vs. t(k) 10% PWM Load



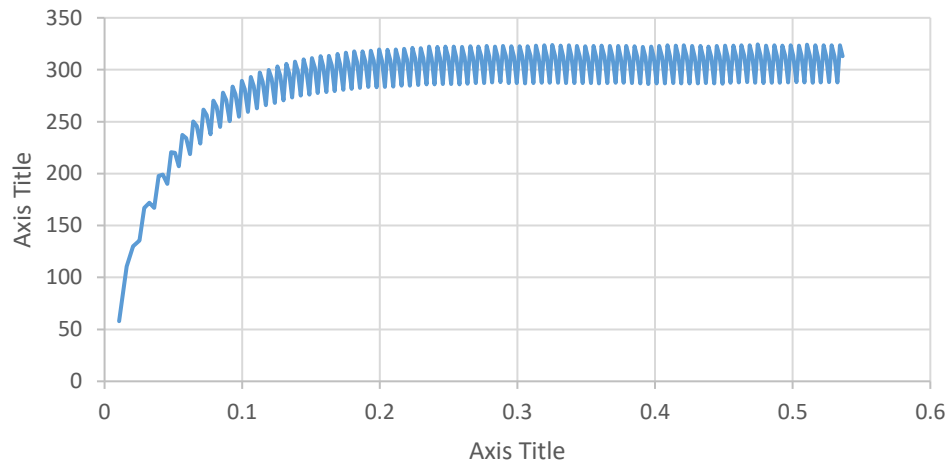
w(k) vs. t(k) 20% PWM Free



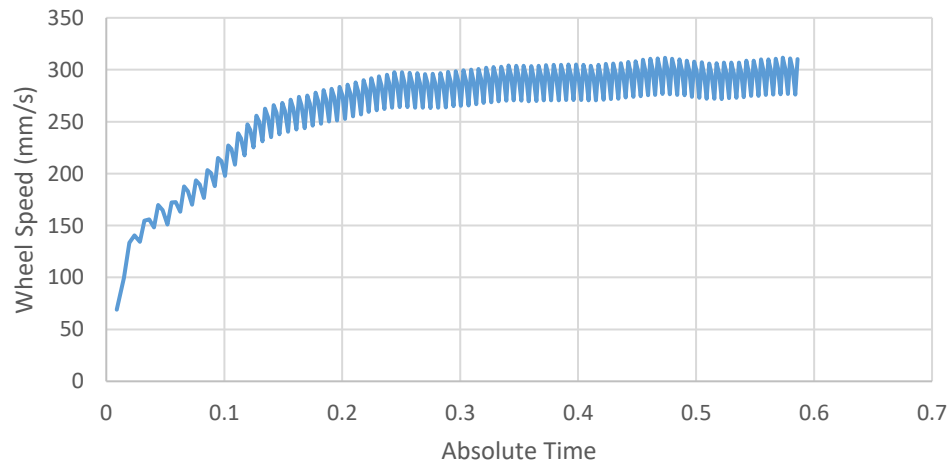
w(k) vs. t(k) 20% PWN Load

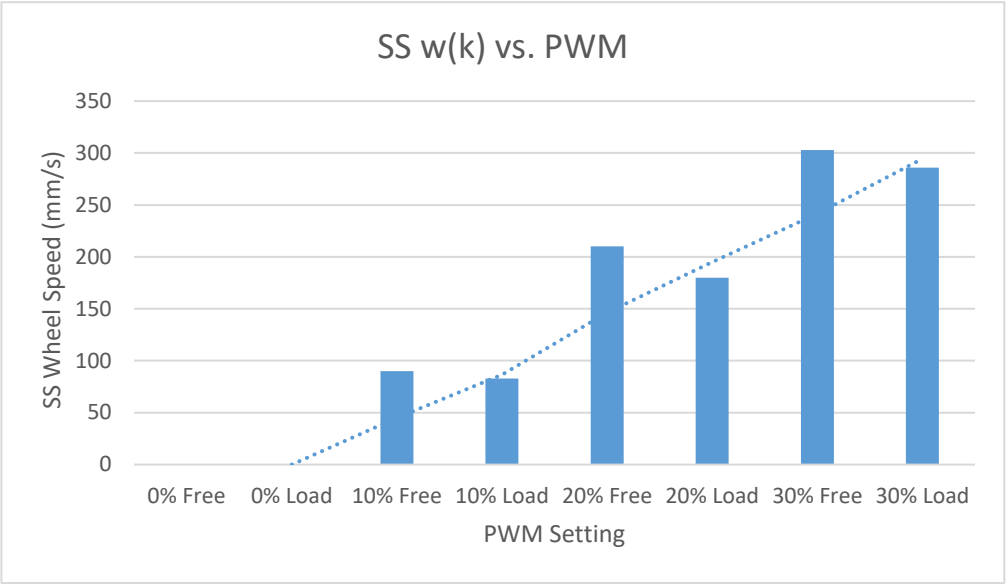


w(k) vs. t(k) 30% PWM Free



w(k) vs. t(k) 30% PWM Load





| Car Setting | Rise Time | SS Speed | Order Resp |
|-------------|-----------|----------|------------|
| 0% | 0 | 0 mm /s | 0 |
| 10% Free | 0.4 | 90 mm/s | 1 |
| 10% Load | 0.5 | 83 mm/s | 2 |
| 20% Free | 0.15 | 210 mm/s | 1 |
| 20% Load | 0.2 | 180 mm/s | 2 |
| 30% Free | 0.14 | 303 mm/s | 1 |
| 30% Load | 0.19 | 286 mm/s | 2 |

| | |
|----------|-----|
| 0% Free | 0 |
| 0% Load | 0 |
| 10% Free | 90 |
| 10% Load | 83 |
| 20% Free | 210 |
| 20% Load | 180 |
| 30% Free | 303 |
| 30% Load | 286 |