## u velocities
| Unnamed: 0 | Unnamed: 1 | Time (ms) and u Velocity Component (m/s) | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 | Unnamed: 7 | Unnamed: 8 | Unnamed: 9 | Unnamed: 10 | Unnamed: 11 | Unnamed: 12 | Unnamed: 13 | Unnamed: 14 | Unnamed: 15 | Unnamed: 16 | Unnamed: 17 | Unnamed: 18 | Unnamed: 19 | Unnamed: 20 | Unnamed: 21 | Unnamed: 22 | Unnamed: 23 | Unnamed: 24 | Unnamed: 25 | Unnamed: 26 | Unnamed: 27 | Unnamed: 28 | Unnamed: 29 | Unnamed: 30 | Unnamed: 31 | Unnamed: 32 | Unnamed: 33 | Unnamed: 34 | Unnamed: 35 | Unnamed: 36 | Unnamed: 37 | Unnamed: 38 | Unnamed: 39 | Unnamed: 40 | Unnamed: 41 | Unnamed: 42 | Unnamed: 43 | Unnamed: 44 | Unnamed: 45 | Unnamed: 46 | Unnamed: 47 | Unnamed: 48 | Unnamed: 49 | Unnamed: 50 | Unnamed: 51 | Unnamed: 52 | Unnamed: 53 | Unnamed: 54 | Unnamed: 55 | Unnamed: 56 | Unnamed: 57 | Unnamed: 58 | Unnamed: 59 | Unnamed: 60 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x coord (m) | y coord (m) | 16.666667 | 33.333333 | 50.000000 | 66.666667 | 83.333333 | 100.000000 | 116.666667 | 133.333333 | 150.000000 | 166.666667 | 183.333333 | 200.000000 | 216.666667 | 233.333333 | 250.000000 | 266.666667 | 283.333333 | 300.000000 | 316.666667 | 333.333333 | 350.000000 | 366.666667 | 383.333333 | 400.000000 | 416.666667 | 433.333333 | 450.000000 | 466.666667 | 483.333333 | 500.000000 | 516.666667 | 533.333333 | 550.000000 | 566.666667 | 583.333333 | 600.000000 | 616.666667 | 633.333333 | 650.000000 | 666.666667 | 683.333333 | 700.000000 | 716.666667 | 733.333333 | 750.000000 | 766.666667 | 783.333333 | 800.000000 | 816.666667 | 833.333333 | 850.000000 | 866.666667 | 883.333333 | 900.000000 | 916.666667 | 933.333333 | 950.000000 | 966.666667 | 983.333333 |
| 0.01015 | 0.011113 | -0.096413 | -0.087502 | -0.107358 | -0.107358 | -0.107358 | -0.107358 | -0.107358 | -0.107358 | -0.107358 | -0.107358 | -0.107358 | -0.132757 | -0.132757 | -0.101472 | -0.101472 | -0.050448 | -0.050448 | -0.087954 | -0.087954 | -0.097284 | -0.097284 | -0.051614 | -0.051614 | -0.127295 | -0.127295 | -0.069846 | -0.069846 | -0.081267 | -0.081267 | -0.066708 | -0.066708 | -0.047063 | -0.047063 | -0.057666 | -0.057666 | -0.016483 | -0.016483 | -0.098297 | -0.098297 | -0.099983 | -0.099983 | -0.070631 | -0.070631 | -0.042843 | -0.042843 | -0.075641 | -0.075641 | -0.053051 | -0.053051 | -0.019541 | -0.019541 | -0.041226 | -0.041226 | -0.054006 | -0.054006 | -0.078131 | -0.078131 | 0.010528 | 0.010528 |
| 0.01297 | 0.011117 | -0.086319 | -0.094640 | -0.110956 | -0.110956 | -0.110956 | -0.110956 | -0.110956 | -0.110956 | -0.110956 | -0.110956 | -0.110956 | -0.129309 | -0.129309 | -0.111072 | -0.111072 | -0.075474 | -0.075474 | -0.088299 | -0.088299 | -0.105816 | -0.105816 | -0.054944 | -0.054944 | -0.107414 | -0.107414 | -0.082754 | -0.082754 | -0.072810 | -0.072810 | -0.074111 | -0.074111 | -0.057207 | -0.057207 | -0.076903 | -0.076903 | -0.032557 | -0.032557 | -0.092605 | -0.092605 | -0.096449 | -0.096449 | -0.031057 | -0.031057 | -0.046404 | -0.046404 | -0.077794 | -0.077794 | -0.053586 | -0.053586 | -0.027950 | -0.027950 | -0.036474 | -0.036474 | -0.052465 | -0.052465 | -0.071450 | -0.071450 | 0.004497 | 0.004497 |
| 0.01579 | 0.01112 | -0.084768 | -0.095793 | -0.111202 | -0.111202 | -0.111202 | -0.111202 | -0.111202 | -0.111202 | -0.111202 | -0.111202 | -0.111202 | -0.124988 | -0.124988 | -0.119833 | -0.119833 | -0.088330 | -0.088330 | -0.088439 | -0.088439 | -0.105737 | -0.105737 | -0.059241 | -0.059241 | -0.093521 | -0.093521 | -0.082580 | -0.082580 | -0.071146 | -0.071146 | -0.074335 | -0.074335 | -0.069700 | -0.069700 | -0.060633 | -0.060633 | -0.056372 | -0.056372 | -0.094508 | -0.094508 | -0.095987 | -0.095987 | -0.014711 | -0.014711 | -0.032514 | -0.032514 | -0.078346 | -0.078346 | -0.048241 | -0.048241 | -0.041486 | -0.041486 | -0.030830 | -0.030830 | -0.034379 | -0.034379 | -0.073599 | -0.073599 | -0.003868 | -0.003868 |
| 0.018609 | 0.011123 | -0.086533 | -0.107815 | -0.108023 | -0.108023 | -0.108023 | -0.108023 | -0.108023 | -0.108023 | -0.108023 | -0.108023 | -0.108023 | -0.120374 | -0.120374 | -0.108434 | -0.108434 | -0.076090 | -0.076090 | -0.088757 | -0.088757 | -0.098094 | -0.098094 | -0.073005 | -0.073005 | -0.083754 | -0.083754 | -0.074822 | -0.074822 | -0.069884 | -0.069884 | -0.082270 | -0.082270 | -0.075435 | -0.075435 | -0.044813 | -0.044813 | -0.044952 | -0.044952 | -0.089749 | -0.089749 | -0.099861 | -0.099861 | -0.036074 | -0.036074 | -0.026172 | -0.026172 | -0.078146 | -0.078146 | -0.047704 | -0.047704 | -0.056325 | -0.056325 | -0.038365 | -0.038365 | -0.020018 | -0.020018 | -0.073053 | -0.073053 | -0.005158 | -0.005158 |
| 0.021429 | 0.011126 | -0.085999 | -0.111677 | -0.103314 | -0.103314 | -0.103314 | -0.103314 | -0.103314 | -0.103314 | -0.103314 | -0.103314 | -0.103314 | -0.112980 | -0.112980 | -0.111065 | -0.111065 | -0.068255 | -0.068255 | -0.089270 | -0.089270 | -0.093679 | -0.093679 | -0.068723 | -0.068723 | -0.077124 | -0.077124 | -0.073824 | -0.073824 | -0.069723 | -0.069723 | -0.090271 | -0.090271 | -0.077662 | -0.077662 | -0.021858 | -0.021858 | -0.046045 | -0.046045 | -0.081442 | -0.081442 | -0.103294 | -0.103294 | -0.048686 | -0.048686 | -0.026757 | -0.026757 | -0.076195 | -0.076195 | -0.045901 | -0.045901 | -0.059948 | -0.059948 | -0.040831 | -0.040831 | -0.022458 | -0.022458 | -0.067617 | -0.067617 | -0.008440 | -0.008440 |
| 0.024249 | 0.01113 | -0.089476 | -0.108057 | -0.101402 | -0.101402 | -0.101402 | -0.101402 | -0.101402 | -0.101402 | -0.101402 | -0.101402 | -0.101402 | -0.100398 | -0.100398 | -0.108415 | -0.108415 | -0.068967 | -0.068967 | -0.088313 | -0.088313 | -0.090801 | -0.090801 | -0.066642 | -0.066642 | -0.074760 | -0.074760 | -0.072505 | -0.072505 | -0.074356 | -0.074356 | -0.082442 | -0.082442 | -0.077705 | -0.077705 | -0.023620 | -0.023620 | -0.056876 | -0.056876 | -0.074163 | -0.074163 | -0.100939 | -0.100939 | -0.065037 | -0.065037 | -0.016861 | -0.016861 | -0.073412 | -0.073412 | -0.041395 | -0.041395 | -0.057369 | -0.057369 | -0.040391 | -0.040391 | -0.030869 | -0.030869 | -0.064680 | -0.064680 | -0.019114 | -0.019114 |
| 0.027069 | 0.011133 | -0.080963 | -0.097214 | -0.100512 | -0.100512 | -0.100512 | -0.100512 | -0.100512 | -0.100512 | -0.100512 | -0.100512 | -0.100512 | -0.088791 | -0.088791 | -0.107908 | -0.107908 | -0.091927 | -0.091927 | -0.087997 | -0.087997 | -0.090573 | -0.090573 | -0.066086 | -0.066086 | -0.073031 | -0.073031 | -0.071097 | -0.071097 | -0.078741 | -0.078741 | -0.080234 | -0.080234 | -0.075642 | -0.075642 | -0.035358 | -0.035358 | -0.046345 | -0.046345 | -0.069086 | -0.069086 | -0.103207 | -0.103207 | -0.108932 | -0.108932 | -0.023528 | -0.023528 | -0.075214 | -0.075214 | -0.043718 | -0.043718 | -0.050523 | -0.050523 | -0.032726 | -0.032726 | -0.037707 | -0.037707 | -0.063910 | -0.063910 | -0.014693 | -0.014693 |
| 0.029889 | 0.011136 | -0.071404 | -0.082595 | -0.103443 | -0.103443 | -0.103443 | -0.103443 | -0.103443 | -0.103443 | -0.103443 | -0.103443 | -0.103443 | -0.097041 | -0.097041 | -0.105437 | -0.105437 | -0.106327 | -0.106327 | -0.087180 | -0.087180 | -0.087238 | -0.087238 | -0.064796 | -0.064796 | -0.075246 | -0.075246 | -0.073894 | -0.073894 | -0.083540 | -0.083540 | -0.077671 | -0.077671 | -0.069578 | -0.069578 | -0.040708 | -0.040708 | -0.047534 | -0.047534 | -0.071973 | -0.071973 | -0.107702 | -0.107702 | -0.139858 | -0.139858 | -0.035842 | -0.035842 | -0.078651 | -0.078651 | -0.046769 | -0.046769 | -0.045532 | -0.045532 | -0.032189 | -0.032189 | -0.034827 | -0.034827 | -0.057842 | -0.057842 | -0.011943 | -0.011943 |
| 0.032709 | 0.011139 | -0.065932 | -0.075150 | -0.108489 | -0.108489 | -0.108489 | -0.108489 | -0.108489 | -0.108489 | -0.108489 | -0.108489 | -0.108489 | -0.093265 | -0.093265 | -0.102846 | -0.102846 | -0.130505 | -0.130505 | -0.087392 | -0.087392 | -0.088677 | -0.088677 | -0.065071 | -0.065071 | -0.049442 | -0.049442 | -0.077456 | -0.077456 | -0.083899 | -0.083899 | -0.072795 | -0.072795 | -0.087093 | -0.087093 | -0.053332 | -0.053332 | -0.044629 | -0.044629 | -0.072898 | -0.072898 | -0.115575 | -0.115575 | -0.146499 | -0.146499 | -0.031544 | -0.031544 | -0.074047 | -0.074047 | -0.048674 | -0.048674 | -0.043181 | -0.043181 | -0.038566 | -0.038566 | -0.034242 | -0.034242 | -0.056263 | -0.056263 | -0.032384 | -0.032384 |
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| 0.038349 | 0.011146 | -0.076323 | -0.089892 | -0.110448 | -0.110448 | -0.110448 | -0.110448 | -0.110448 | -0.110448 | -0.110448 | -0.110448 | -0.110448 | -0.085092 | -0.085092 | -0.087343 | -0.087343 | -0.112398 | -0.112398 | -0.081550 | -0.081550 | -0.078555 | -0.078555 | -0.059916 | -0.059916 | -0.062355 | -0.062355 | -0.072012 | -0.072012 | -0.074269 | -0.074269 | -0.068038 | -0.068038 | -0.080121 | -0.080121 | -0.059579 | -0.059579 | -0.026572 | -0.026572 | -0.071569 | -0.071569 | -0.128029 | -0.128029 | -0.115966 | -0.115966 | -0.037321 | -0.037321 | -0.077311 | -0.077311 | -0.055081 | -0.055081 | -0.049277 | -0.049277 | -0.018030 | -0.018030 | -0.038394 | -0.038394 | -0.065187 | -0.065187 | -0.018510 | -0.018510 |
| 0.041168 | 0.011149 | -0.076143 | -0.091838 | -0.108122 | -0.108122 | -0.108122 | -0.108122 | -0.108122 | -0.108122 | -0.108122 | -0.108122 | -0.108122 | -0.076719 | -0.076719 | -0.097931 | -0.097931 | -0.100868 | -0.100868 | -0.079268 | -0.079268 | -0.076206 | -0.076206 | -0.059009 | -0.059009 | -0.066691 | -0.066691 | -0.071958 | -0.071958 | -0.078500 | -0.078500 | -0.070112 | -0.070112 | -0.070448 | -0.070448 | -0.052008 | -0.052008 | -0.030859 | -0.030859 | -0.070187 | -0.070187 | -0.118856 | -0.118856 | -0.089779 | -0.089779 | -0.036010 | -0.036010 | -0.073761 | -0.073761 | -0.057733 | -0.057733 | -0.051798 | -0.051798 | 0.031092 | 0.031092 | -0.028706 | -0.028706 | -0.068443 | -0.068443 | -0.013156 | -0.013156 |
| 0.043988 | 0.011152 | -0.075180 | -0.094422 | -0.104406 | -0.104406 | -0.104406 | -0.104406 | -0.104406 | -0.104406 | -0.104406 | -0.104406 | -0.104406 | -0.076468 | -0.076468 | -0.102318 | -0.102318 | -0.098925 | -0.098925 | -0.076760 | -0.076760 | -0.074531 | -0.074531 | -0.060235 | -0.060235 | -0.071523 | -0.071523 | -0.072550 | -0.072550 | -0.074757 | -0.074757 | -0.071780 | -0.071780 | -0.072910 | -0.072910 | -0.038534 | -0.038534 | -0.040327 | -0.040327 | -0.071887 | -0.071887 | -0.112485 | -0.112485 | -0.074759 | -0.074759 | -0.037490 | -0.037490 | -0.071471 | -0.071471 | -0.054106 | -0.054106 | -0.046768 | -0.046768 | 0.050411 | 0.050411 | -0.029034 | -0.029034 | -0.034661 | -0.034661 | -0.001434 | -0.001434 |
| 0.046808 | 0.011156 | -0.070586 | -0.097828 | -0.099981 | -0.099981 | -0.099981 | -0.099981 | -0.099981 | -0.099981 | -0.099981 | -0.099981 | -0.099981 | -0.067718 | -0.067718 | -0.098803 | -0.098803 | -0.088575 | -0.088575 | -0.074066 | -0.074066 | -0.070484 | -0.070484 | -0.058989 | -0.058989 | -0.072420 | -0.072420 | -0.075686 | -0.075686 | -0.079013 | -0.079013 | -0.059098 | -0.059098 | -0.071471 | -0.071471 | -0.037814 | -0.037814 | -0.044613 | -0.044613 | -0.073568 | -0.073568 | -0.113158 | -0.113158 | -0.067488 | -0.067488 | -0.040438 | -0.040438 | -0.071060 | -0.071060 | -0.050361 | -0.050361 | -0.041757 | -0.041757 | 0.053876 | 0.053876 | -0.025156 | -0.025156 | -0.024057 | -0.024057 | -0.017948 | -0.017948 |
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| 0.052448 | 0.011162 | -0.064317 | -0.097980 | -0.097014 | -0.097014 | -0.097014 | -0.097014 | -0.097014 | -0.097014 | -0.097014 | -0.097014 | -0.097014 | -0.083800 | -0.083800 | -0.088337 | -0.088337 | -0.080695 | -0.080695 | -0.070522 | -0.070522 | -0.061574 | -0.061574 | -0.059953 | -0.059953 | -0.065844 | -0.065844 | -0.076017 | -0.076017 | -0.076096 | -0.076096 | -0.061169 | -0.061169 | -0.079325 | -0.079325 | -0.053881 | -0.053881 | -0.047906 | -0.047906 | -0.073768 | -0.073768 | -0.110825 | -0.110825 | -0.057820 | -0.057820 | -0.040426 | -0.040426 | -0.065179 | -0.065179 | -0.058929 | -0.058929 | -0.034584 | -0.034584 | 0.034732 | 0.034732 | -0.034696 | -0.034696 | -0.057186 | -0.057186 | -0.039099 | -0.039099 |
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| 0.117711 | 0.105489 | -0.051569 | -0.051459 | -0.045098 | -0.045098 | -0.045098 | -0.045098 | -0.045098 | -0.045098 | -0.045098 | -0.045098 | -0.045098 | -0.046922 | -0.046922 | -0.033979 | -0.033979 | -0.029160 | -0.029160 | -0.023999 | -0.023999 | -0.018026 | -0.018026 | -0.018132 | -0.018132 | -0.021141 | -0.021141 | -0.027324 | -0.027324 | -0.042758 | -0.042758 | -0.044974 | -0.044974 | -0.049717 | -0.049717 | -0.050974 | -0.050974 | -0.039651 | -0.039651 | -0.020173 | -0.020173 | -0.045765 | -0.045765 | -0.032486 | -0.032486 | -0.014366 | -0.014366 | -0.043558 | -0.043558 | -0.042922 | -0.042922 | -0.033209 | -0.033209 | -0.045215 | -0.045215 | -0.036169 | -0.036169 | -0.044103 | -0.044103 | -0.045825 | -0.045825 |
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| 0.121619 | 0.080811 | -0.038441 | -0.048275 | -0.042681 | -0.042681 | -0.042681 | -0.042681 | -0.042681 | -0.042681 | -0.042681 | -0.042681 | -0.042681 | -0.043078 | -0.043078 | -0.038602 | -0.038602 | -0.030858 | -0.030858 | -0.013365 | -0.013365 | -0.025594 | -0.025594 | -0.026076 | -0.026076 | -0.030804 | -0.030804 | -0.035704 | -0.035704 | -0.046208 | -0.046208 | -0.042487 | -0.042487 | -0.043224 | -0.043224 | -0.050686 | -0.050686 | -0.025552 | -0.025552 | -0.054315 | -0.054315 | -0.054079 | -0.054079 | -0.065999 | -0.065999 | -0.041989 | -0.041989 | -0.039515 | -0.039515 | -0.030438 | -0.030438 | -0.053991 | -0.053991 | -0.048316 | -0.048316 | -0.040332 | -0.040332 | -0.045492 | -0.045492 | -0.050714 | -0.050714 |
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