

Appendix C

Initial Vehicle Velocity 160 km/h

| Step | Time Interval | Total Time | ω (rad/s) | v (m/s) | Heat Absorbed by Drum (J) | Total Heat (J) | Heat Flux (W/m ²) |
|-------|---------------|------------|------------------|---------|---------------------------|----------------|-------------------------------|
| Datum | 0.0000 | 0.0000 | 155.9454 | 44.4444 | 0.000 | 0.000 | 0.00 |
| 1 | 0.0112 | 0.0112 | 155.6756 | 44.3675 | 559.655 | 559.655 | 619224.00 |
| 2 | 0.0112 | 0.0224 | 155.4053 | 44.2905 | 559.655 | 1119.309 | 618150.64 |
| 3 | 0.0112 | 0.0337 | 155.1345 | 44.2133 | 559.655 | 1678.964 | 617075.40 |
| 4 | 0.0113 | 0.0449 | 154.8632 | 44.1360 | 559.655 | 2238.618 | 615998.29 |
| 5 | 0.0113 | 0.0562 | 154.5915 | 44.0586 | 559.655 | 2798.273 | 614919.29 |
| 6 | 0.0113 | 0.0675 | 154.3192 | 43.9810 | 559.655 | 3357.927 | 613838.39 |
| 7 | 0.0113 | 0.0788 | 154.0465 | 43.9033 | 559.655 | 3917.582 | 612755.59 |
| 8 | 0.0113 | 0.0901 | 153.7734 | 43.8254 | 559.655 | 4477.236 | 611670.87 |
| 9 | 0.0114 | 0.1015 | 153.4997 | 43.7474 | 559.655 | 5036.891 | 610584.22 |
| 10 | 0.0114 | 0.1129 | 153.2255 | 43.6693 | 559.655 | 5596.546 | 609495.64 |
| 11 | 0.0114 | 0.1243 | 152.9509 | 43.5910 | 559.655 | 6156.200 | 608405.11 |
| 12 | 0.0114 | 0.1357 | 152.6758 | 43.5126 | 559.655 | 6715.855 | 607312.62 |
| 13 | 0.0114 | 0.1471 | 152.4001 | 43.4340 | 559.655 | 7275.509 | 606218.16 |
| 14 | 0.0115 | 0.1586 | 152.1240 | 43.3553 | 559.655 | 7835.164 | 605121.72 |
| 15 | 0.0115 | 0.1701 | 151.8473 | 43.2765 | 559.655 | 8394.818 | 604023.29 |
| 16 | 0.0115 | 0.1816 | 151.5702 | 43.1975 | 559.655 | 8954.473 | 602922.86 |
| 17 | 0.0115 | 0.1931 | 151.2925 | 43.1184 | 559.655 | 9514.127 | 601820.42 |
| 18 | 0.0115 | 0.2047 | 151.0144 | 43.0391 | 559.655 | 10073.782 | 600715.96 |
| 19 | 0.0116 | 0.2162 | 150.7357 | 42.9597 | 559.655 | 10633.437 | 599609.46 |
| 20 | 0.0116 | 0.2278 | 150.4565 | 42.8801 | 559.655 | 11193.091 | 598500.91 |
| 21 | 0.0116 | 0.2394 | 150.1768 | 42.8004 | 559.655 | 11752.746 | 597390.31 |
| 22 | 0.0116 | 0.2510 | 149.8966 | 42.7205 | 559.655 | 12312.400 | 596277.64 |
| 23 | 0.0117 | 0.2627 | 149.6158 | 42.6405 | 559.655 | 12872.055 | 595162.89 |
| 24 | 0.0117 | 0.2744 | 149.3345 | 42.5603 | 559.655 | 13431.709 | 594046.05 |
| 25 | 0.0117 | 0.2861 | 149.0527 | 42.4800 | 559.655 | 13991.364 | 592927.10 |
| 26 | 0.0117 | 0.2978 | 148.7704 | 42.3996 | 559.655 | 14551.018 | 591806.04 |
| 27 | 0.0117 | 0.3095 | 148.4875 | 42.3189 | 559.655 | 15110.673 | 590682.85 |
| 28 | 0.0118 | 0.3213 | 148.2040 | 42.2382 | 559.655 | 15670.328 | 589557.52 |
| 29 | 0.0118 | 0.3331 | 147.9201 | 42.1572 | 559.655 | 16229.982 | 588430.04 |
| 30 | 0.0118 | 0.3449 | 147.6355 | 42.0761 | 559.655 | 16789.637 | 587300.39 |
| 31 | 0.0118 | 0.3567 | 147.3505 | 41.9949 | 559.655 | 17349.291 | 586168.57 |
| 32 | 0.0119 | 0.3686 | 147.0649 | 41.9135 | 559.655 | 17908.946 | 585034.56 |
| 33 | 0.0119 | 0.3804 | 146.7787 | 41.8319 | 559.655 | 18468.600 | 583898.34 |
| 34 | 0.0119 | 0.3923 | 146.4920 | 41.7502 | 559.655 | 19028.255 | 582759.91 |
| 35 | 0.0119 | 0.4043 | 146.2047 | 41.6683 | 559.655 | 19587.909 | 581619.25 |
| 36 | 0.0119 | 0.4162 | 145.9168 | 41.5863 | 559.655 | 20147.564 | 580476.35 |
| 37 | 0.0120 | 0.4282 | 145.6284 | 41.5041 | 559.655 | 20707.219 | 579331.20 |
| 38 | 0.0120 | 0.4402 | 145.3394 | 41.4217 | 559.655 | 21266.873 | 578183.77 |
| 39 | 0.0120 | 0.4522 | 145.0498 | 41.3392 | 559.655 | 21826.528 | 577034.07 |
| 40 | 0.0120 | 0.4642 | 144.7596 | 41.2565 | 559.655 | 22386.182 | 575882.07 |
| 41 | 0.0121 | 0.4763 | 144.4689 | 41.1736 | 559.655 | 22945.837 | 574727.76 |
| 42 | 0.0121 | 0.4884 | 144.1776 | 41.0906 | 559.655 | 23505.491 | 573571.13 |
| 43 | 0.0121 | 0.5005 | 143.8856 | 41.0074 | 559.655 | 24065.146 | 572412.16 |
| 44 | 0.0121 | 0.5127 | 143.5931 | 40.9240 | 559.655 | 24624.800 | 571250.84 |

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| 45 | 0.0122 | 0.5248 | 143.3000 | 40.8405 | 559.655 | 25184.455 | 570087.15 |
| 46 | 0.0122 | 0.5370 | 143.0063 | 40.7568 | 559.655 | 25744.110 | 568921.08 |
| 47 | 0.0122 | 0.5492 | 142.7120 | 40.6729 | 559.655 | 26303.764 | 567752.62 |
| 48 | 0.0122 | 0.5615 | 142.4171 | 40.5889 | 559.655 | 26863.419 | 566581.75 |
| 49 | 0.0123 | 0.5737 | 142.1215 | 40.5046 | 559.655 | 27423.073 | 565408.46 |
| 50 | 0.0123 | 0.5860 | 141.8254 | 40.4202 | 559.655 | 27982.728 | 564232.72 |
| 51 | 0.0123 | 0.5983 | 141.5286 | 40.3357 | 559.655 | 28542.382 | 563054.53 |
| 52 | 0.0123 | 0.6107 | 141.2312 | 40.2509 | 559.655 | 29102.037 | 561873.87 |
| 53 | 0.0124 | 0.6230 | 140.9332 | 40.1660 | 559.655 | 29661.691 | 560690.72 |
| 54 | 0.0124 | 0.6354 | 140.6346 | 40.0808 | 559.655 | 30221.346 | 559505.07 |
| 55 | 0.0124 | 0.6479 | 140.3353 | 39.9956 | 559.655 | 30781.001 | 558316.90 |
| 56 | 0.0124 | 0.6603 | 140.0353 | 39.9101 | 559.655 | 31340.655 | 557126.20 |
| 57 | 0.0125 | 0.6728 | 139.7348 | 39.8244 | 559.655 | 31900.310 | 555932.95 |
| 58 | 0.0125 | 0.6853 | 139.4336 | 39.7386 | 559.655 | 32459.964 | 554737.13 |
| 59 | 0.0125 | 0.6978 | 139.1317 | 39.6525 | 559.655 | 33019.619 | 553538.73 |
| 60 | 0.0126 | 0.7104 | 138.8292 | 39.5663 | 559.655 | 33579.273 | 552337.73 |
| 61 | 0.0126 | 0.7230 | 138.5260 | 39.4799 | 559.655 | 34138.928 | 551134.11 |
| 62 | 0.0126 | 0.7356 | 138.2221 | 39.3933 | 559.655 | 34698.582 | 549927.86 |
| 63 | 0.0126 | 0.7482 | 137.9176 | 39.3065 | 559.655 | 35258.237 | 548718.95 |
| 64 | 0.0127 | 0.7609 | 137.6124 | 39.2195 | 559.655 | 35817.892 | 547507.38 |
| 65 | 0.0127 | 0.7736 | 137.3065 | 39.1324 | 559.655 | 36377.546 | 546293.12 |
| 66 | 0.0127 | 0.7863 | 137.0000 | 39.0450 | 559.655 | 36937.201 | 545076.15 |
| 67 | 0.0128 | 0.7990 | 136.6927 | 38.9574 | 559.655 | 37496.855 | 543856.46 |
| 68 | 0.0128 | 0.8118 | 136.3848 | 38.8697 | 559.655 | 38056.510 | 542634.03 |
| 69 | 0.0128 | 0.8246 | 136.0762 | 38.7817 | 559.655 | 38616.164 | 541408.84 |
| 70 | 0.0128 | 0.8375 | 135.7668 | 38.6935 | 559.655 | 39175.819 | 540180.87 |
| 71 | 0.0129 | 0.8503 | 135.4568 | 38.6052 | 559.655 | 39735.473 | 538950.10 |
| 72 | 0.0129 | 0.8632 | 135.1460 | 38.5166 | 559.655 | 40295.128 | 537716.51 |
| 73 | 0.0129 | 0.8762 | 134.8346 | 38.4278 | 559.655 | 40854.783 | 536480.09 |
| 74 | 0.0130 | 0.8891 | 134.5224 | 38.3389 | 559.655 | 41414.437 | 535240.82 |
| 75 | 0.0130 | 0.9021 | 134.2094 | 38.2497 | 559.655 | 41974.092 | 533998.66 |
| 76 | 0.0130 | 0.9151 | 133.8958 | 38.1603 | 559.655 | 42533.746 | 532753.61 |
| 77 | 0.0130 | 0.9282 | 133.5814 | 38.0707 | 559.655 | 43093.401 | 531505.64 |
| 78 | 0.0131 | 0.9412 | 133.2663 | 37.9809 | 559.655 | 43653.055 | 530254.74 |
| 79 | 0.0131 | 0.9544 | 132.9504 | 37.8909 | 559.655 | 44212.710 | 529000.88 |
| 80 | 0.0131 | 0.9675 | 132.6338 | 37.8006 | 559.655 | 44772.364 | 527744.04 |
| 81 | 0.0132 | 0.9807 | 132.3164 | 37.7102 | 559.655 | 45332.019 | 526484.20 |
| 82 | 0.0132 | 0.9939 | 131.9983 | 37.6195 | 559.655 | 45891.674 | 525221.34 |
| 83 | 0.0132 | 1.0071 | 131.6794 | 37.5286 | 559.655 | 46451.328 | 523955.43 |
| 84 | 0.0133 | 1.0204 | 131.3597 | 37.4375 | 559.655 | 47010.983 | 522686.46 |
| 85 | 0.0133 | 1.0337 | 131.0392 | 37.3462 | 559.655 | 47570.637 | 521414.39 |
| 86 | 0.0133 | 1.0470 | 130.7179 | 37.2546 | 559.655 | 48130.292 | 520139.22 |
| 87 | 0.0134 | 1.0604 | 130.3959 | 37.1628 | 559.655 | 48689.946 | 518860.92 |
| 88 | 0.0134 | 1.0738 | 130.0730 | 37.0708 | 559.655 | 49249.601 | 517579.45 |
| 89 | 0.0134 | 1.0872 | 129.7494 | 36.9786 | 559.655 | 49809.255 | 516294.81 |
| 90 | 0.0135 | 1.1007 | 129.4249 | 36.8861 | 559.655 | 50368.910 | 515006.96 |
| 91 | 0.0135 | 1.1142 | 129.0997 | 36.7934 | 559.655 | 50928.565 | 513715.88 |
| 92 | 0.0135 | 1.1277 | 128.7736 | 36.7005 | 559.655 | 51488.219 | 512421.55 |
| 93 | 0.0136 | 1.1413 | 128.4467 | 36.6073 | 559.655 | 52047.874 | 511123.95 |
| 94 | 0.0136 | 1.1549 | 128.1189 | 36.5139 | 559.655 | 52607.528 | 509823.04 |

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| 95 | 0.0136 | 1.1685 | 127.7903 | 36.4202 | 559.655 | 53167.183 | 508518.80 |
| 96 | 0.0137 | 1.1822 | 127.4609 | 36.3263 | 559.655 | 53726.837 | 507211.21 |
| 97 | 0.0137 | 1.1959 | 127.1306 | 36.2322 | 559.655 | 54286.492 | 505900.24 |
| 98 | 0.0137 | 1.2096 | 126.7994 | 36.1378 | 559.655 | 54846.146 | 504585.86 |
| 99 | 0.0138 | 1.2234 | 126.4674 | 36.0432 | 559.655 | 55405.801 | 503268.05 |
| 100 | 0.0138 | 1.2372 | 126.1345 | 35.9483 | 559.655 | 55965.456 | 501946.78 |
| 101 | 0.0139 | 1.2511 | 125.8007 | 35.8532 | 559.655 | 56525.110 | 500622.02 |
| 102 | 0.0139 | 1.2650 | 125.4660 | 35.7578 | 559.655 | 57084.765 | 499293.75 |
| 103 | 0.0139 | 1.2789 | 125.1305 | 35.6622 | 559.655 | 57644.419 | 497961.93 |
| 104 | 0.0140 | 1.2929 | 124.7940 | 35.5663 | 559.655 | 58204.074 | 496626.55 |
| 105 | 0.0140 | 1.3069 | 124.4566 | 35.4701 | 559.655 | 58763.728 | 495287.56 |
| 106 | 0.0140 | 1.3209 | 124.1184 | 35.3737 | 559.655 | 59323.383 | 493944.94 |
| 107 | 0.0141 | 1.3350 | 123.7791 | 35.2771 | 559.655 | 59883.037 | 492598.66 |
| 108 | 0.0141 | 1.3491 | 123.4390 | 35.1801 | 559.655 | 60442.692 | 491248.70 |
| 109 | 0.0142 | 1.3633 | 123.0979 | 35.0829 | 559.655 | 61002.347 | 489895.01 |
| 110 | 0.0142 | 1.3775 | 122.7559 | 34.9854 | 559.655 | 61562.001 | 488537.58 |
| 111 | 0.0142 | 1.3917 | 122.4129 | 34.8877 | 559.655 | 62121.656 | 487176.36 |
| 112 | 0.0143 | 1.4060 | 122.0689 | 34.7896 | 559.655 | 62681.310 | 485811.32 |
| 113 | 0.0143 | 1.4203 | 121.7240 | 34.6913 | 559.655 | 63240.965 | 484442.44 |
| 114 | 0.0144 | 1.4346 | 121.3781 | 34.5928 | 559.655 | 63800.619 | 483069.68 |
| 115 | 0.0144 | 1.4490 | 121.0312 | 34.4939 | 559.655 | 64360.274 | 481693.01 |
| 116 | 0.0144 | 1.4635 | 120.6833 | 34.3947 | 559.655 | 64919.928 | 480312.40 |
| 117 | 0.0145 | 1.4780 | 120.3344 | 34.2953 | 559.655 | 65479.583 | 478927.80 |
| 118 | 0.0145 | 1.4925 | 119.9845 | 34.1956 | 559.655 | 66039.238 | 477539.19 |
| 119 | 0.0146 | 1.5070 | 119.6336 | 34.0956 | 559.655 | 66598.892 | 476146.53 |
| 120 | 0.0146 | 1.5217 | 119.2816 | 33.9953 | 559.655 | 67158.547 | 474749.78 |
| 121 | 0.0147 | 1.5363 | 118.9286 | 33.8946 | 559.655 | 67718.201 | 473348.91 |
| 122 | 0.0147 | 1.5510 | 118.5745 | 33.7937 | 559.655 | 68277.856 | 471943.89 |
| 123 | 0.0147 | 1.5657 | 118.2194 | 33.6925 | 559.655 | 68837.510 | 470534.67 |
| 124 | 0.0148 | 1.5805 | 117.8632 | 33.5910 | 559.655 | 69397.165 | 469121.21 |
| 125 | 0.0148 | 1.5953 | 117.5059 | 33.4892 | 559.655 | 69956.819 | 467703.48 |
| 126 | 0.0149 | 1.6102 | 117.1476 | 33.3871 | 559.655 | 70516.474 | 466281.45 |
| 127 | 0.0149 | 1.6251 | 116.7881 | 33.2846 | 559.655 | 71076.129 | 464855.06 |
| 128 | 0.0150 | 1.6401 | 116.4275 | 33.1818 | 559.655 | 71635.783 | 463424.28 |
| 129 | 0.0150 | 1.6551 | 116.0659 | 33.0788 | 559.655 | 72195.438 | 461989.07 |
| 130 | 0.0151 | 1.6702 | 115.7030 | 32.9754 | 559.655 | 72755.092 | 460549.39 |
| 131 | 0.0151 | 1.6853 | 115.3391 | 32.8716 | 559.655 | 73314.747 | 459105.20 |
| 132 | 0.0152 | 1.7004 | 114.9740 | 32.7676 | 559.655 | 73874.401 | 457656.44 |
| 133 | 0.0152 | 1.7156 | 114.6077 | 32.6632 | 559.655 | 74434.056 | 456203.09 |
| 134 | 0.0153 | 1.7309 | 114.2402 | 32.5585 | 559.655 | 74993.710 | 454745.09 |
| 135 | 0.0153 | 1.7462 | 113.8716 | 32.4534 | 559.655 | 75553.365 | 453282.40 |
| 136 | 0.0153 | 1.7615 | 113.5018 | 32.3480 | 559.655 | 76113.020 | 451814.98 |
| 137 | 0.0154 | 1.7769 | 113.1307 | 32.2423 | 559.655 | 76672.674 | 450342.77 |
| 138 | 0.0155 | 1.7924 | 112.7584 | 32.1362 | 559.655 | 77232.329 | 448865.74 |
| 139 | 0.0155 | 1.8079 | 112.3849 | 32.0297 | 559.655 | 77791.983 | 447383.83 |
| 140 | 0.0156 | 1.8234 | 112.0102 | 31.9229 | 559.655 | 78351.638 | 445896.99 |
| 141 | 0.0156 | 1.8390 | 111.6342 | 31.8157 | 559.655 | 78911.292 | 444405.18 |
| 142 | 0.0157 | 1.8547 | 111.2569 | 31.7082 | 559.655 | 79470.947 | 442908.35 |
| 143 | 0.0157 | 1.8704 | 110.8784 | 31.6003 | 559.655 | 80030.601 | 441406.44 |
| 144 | 0.0158 | 1.8862 | 110.4985 | 31.4921 | 559.655 | 80590.256 | 439899.40 |

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| 145 | 0.0158 | 1.9020 | 110.1174 | 31.3834 | 559.655 | 81149.911 | 438387.18 |
| 146 | 0.0159 | 1.9179 | 109.7349 | 31.2744 | 559.655 | 81709.565 | 436869.72 |
| 147 | 0.0159 | 1.9338 | 109.3510 | 31.1650 | 559.655 | 82269.220 | 435346.98 |
| 148 | 0.0160 | 1.9498 | 108.9659 | 31.0553 | 559.655 | 82828.874 | 433818.89 |
| 149 | 0.0160 | 1.9658 | 108.5793 | 30.9451 | 559.655 | 83388.529 | 432285.40 |
| 150 | 0.0161 | 1.9819 | 108.1914 | 30.8345 | 559.655 | 83948.183 | 430746.45 |
| 151 | 0.0162 | 1.9981 | 107.8021 | 30.7236 | 559.655 | 84507.838 | 429201.99 |
| 152 | 0.0162 | 2.0143 | 107.4113 | 30.6122 | 559.655 | 85067.492 | 427651.94 |
| 153 | 0.0163 | 2.0306 | 107.0192 | 30.5005 | 559.655 | 85627.147 | 426096.26 |
| 154 | 0.0163 | 2.0469 | 106.6256 | 30.3883 | 559.655 | 86186.802 | 424534.87 |
| 155 | 0.0164 | 2.0633 | 106.2305 | 30.2757 | 559.655 | 86746.456 | 422967.72 |
| 156 | 0.0165 | 2.0798 | 105.8340 | 30.1627 | 559.655 | 87306.111 | 421394.75 |
| 157 | 0.0165 | 2.0963 | 105.4360 | 30.0493 | 559.655 | 87865.765 | 419815.87 |
| 158 | 0.0166 | 2.1129 | 105.0364 | 29.9354 | 559.655 | 88425.420 | 418231.04 |
| 159 | 0.0166 | 2.1295 | 104.6354 | 29.8211 | 559.655 | 88985.074 | 416640.18 |
| 160 | 0.0167 | 2.1462 | 104.2328 | 29.7063 | 559.655 | 89544.729 | 415043.23 |
| 161 | 0.0168 | 2.1630 | 103.8286 | 29.5912 | 559.655 | 90104.383 | 413440.10 |
| 162 | 0.0168 | 2.1798 | 103.4229 | 29.4755 | 559.655 | 90664.038 | 411830.73 |
| 163 | 0.0169 | 2.1967 | 103.0155 | 29.3594 | 559.655 | 91223.693 | 410215.05 |
| 164 | 0.0170 | 2.2137 | 102.6066 | 29.2429 | 559.655 | 91783.347 | 408592.99 |
| 165 | 0.0170 | 2.2308 | 102.1960 | 29.1259 | 559.655 | 92343.002 | 406964.45 |
| 166 | 0.0171 | 2.2479 | 101.7837 | 29.0084 | 559.655 | 92902.656 | 405329.37 |
| 167 | 0.0172 | 2.2650 | 101.3698 | 28.8904 | 559.655 | 93462.311 | 403687.67 |
| 168 | 0.0172 | 2.2823 | 100.9542 | 28.7719 | 559.655 | 94021.965 | 402039.27 |
| 169 | 0.0173 | 2.2996 | 100.5368 | 28.6530 | 559.655 | 94581.620 | 400384.08 |
| 170 | 0.0174 | 2.3170 | 100.1178 | 28.5336 | 559.655 | 95141.274 | 398722.02 |
| 171 | 0.0175 | 2.3345 | 99.6969 | 28.4136 | 559.655 | 95700.929 | 397053.00 |
| 172 | 0.0175 | 2.3520 | 99.2743 | 28.2932 | 559.655 | 96260.584 | 395376.93 |
| 173 | 0.0176 | 2.3696 | 98.8499 | 28.1722 | 559.655 | 96820.238 | 393693.73 |
| 174 | 0.0177 | 2.3873 | 98.4236 | 28.0507 | 559.655 | 97379.893 | 392003.30 |
| 175 | 0.0178 | 2.4051 | 97.9955 | 27.9287 | 559.655 | 97939.547 | 390305.55 |
| 176 | 0.0178 | 2.4229 | 97.5655 | 27.8062 | 559.655 | 98499.202 | 388600.39 |
| 177 | 0.0179 | 2.4409 | 97.1336 | 27.6831 | 559.655 | 99058.856 | 386887.70 |
| 178 | 0.0180 | 2.4589 | 96.6997 | 27.5594 | 559.655 | 99618.511 | 385167.41 |
| 179 | 0.0181 | 2.4769 | 96.2640 | 27.4352 | 559.655 | 100178.165 | 383439.39 |
| 180 | 0.0182 | 2.4951 | 95.8262 | 27.3105 | 559.655 | 100737.820 | 381703.55 |
| 181 | 0.0183 | 2.5134 | 95.3864 | 27.1851 | 559.655 | 101297.475 | 379959.78 |
| 182 | 0.0183 | 2.5317 | 94.9446 | 27.0592 | 559.655 | 101857.129 | 378207.97 |
| 183 | 0.0184 | 2.5501 | 94.5007 | 26.9327 | 559.655 | 102416.784 | 376448.01 |
| 184 | 0.0185 | 2.5686 | 94.0548 | 26.8056 | 559.655 | 102976.438 | 374679.78 |
| 185 | 0.0186 | 2.5872 | 93.6067 | 26.6779 | 559.655 | 103536.093 | 372903.17 |
| 186 | 0.0187 | 2.6059 | 93.1564 | 26.5496 | 559.655 | 104095.747 | 371118.05 |
| 187 | 0.0188 | 2.6247 | 92.7040 | 26.4206 | 559.655 | 104655.402 | 369324.31 |
| 188 | 0.0189 | 2.6436 | 92.2493 | 26.2911 | 559.655 | 105215.056 | 367521.81 |
| 189 | 0.0190 | 2.6625 | 91.7924 | 26.1608 | 559.655 | 105774.711 | 365710.42 |
| 190 | 0.0191 | 2.6816 | 91.3332 | 26.0300 | 559.655 | 106334.366 | 363890.02 |
| 191 | 0.0192 | 2.7007 | 90.8717 | 25.8984 | 559.655 | 106894.020 | 362060.46 |
| 192 | 0.0193 | 2.7200 | 90.4078 | 25.7662 | 559.655 | 107453.675 | 360221.61 |
| 193 | 0.0194 | 2.7393 | 89.9415 | 25.6333 | 559.655 | 108013.329 | 358373.33 |
| 194 | 0.0195 | 2.7588 | 89.4729 | 25.4998 | 559.655 | 108572.984 | 356515.47 |

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| 195 | 0.0196 | 2.7784 | 89.0017 | 25.3655 | 559.655 | 109132.638 | 354647.87 |
| 196 | 0.0197 | 2.7980 | 88.5280 | 25.2305 | 559.655 | 109692.293 | 352770.38 |
| 197 | 0.0198 | 2.8178 | 88.0518 | 25.0948 | 559.655 | 110251.947 | 350882.85 |
| 198 | 0.0199 | 2.8376 | 87.5730 | 24.9583 | 559.655 | 110811.602 | 348985.11 |
| 199 | 0.0200 | 2.8576 | 87.0915 | 24.8211 | 559.655 | 111371.257 | 347076.99 |
| 200 | 0.0201 | 2.8777 | 86.6074 | 24.6831 | 559.655 | 111930.911 | 345158.33 |
| 201 | 0.0202 | 2.8979 | 86.1206 | 24.5444 | 559.655 | 112490.566 | 343228.94 |
| 202 | 0.0203 | 2.9182 | 85.6310 | 24.4048 | 559.655 | 113050.220 | 341288.64 |
| 203 | 0.0204 | 2.9387 | 85.1386 | 24.2645 | 559.655 | 113609.875 | 339337.24 |
| 204 | 0.0206 | 2.9592 | 84.6433 | 24.1233 | 559.655 | 114169.529 | 337374.56 |
| 205 | 0.0207 | 2.9799 | 84.1451 | 23.9813 | 559.655 | 114729.184 | 335400.40 |
| 206 | 0.0208 | 3.0007 | 83.6439 | 23.8385 | 559.655 | 115288.838 | 333414.54 |
| 207 | 0.0209 | 3.0216 | 83.1397 | 23.6948 | 559.655 | 115848.493 | 331416.79 |
| 208 | 0.0211 | 3.0427 | 82.6325 | 23.5502 | 559.655 | 116408.148 | 329406.92 |
| 209 | 0.0212 | 3.0639 | 82.1221 | 23.4048 | 559.655 | 116967.802 | 327384.71 |
| 210 | 0.0213 | 3.0852 | 81.6085 | 23.2584 | 559.655 | 117527.457 | 325349.93 |
| 211 | 0.0215 | 3.1066 | 81.0916 | 23.1111 | 559.655 | 118087.111 | 323302.34 |
| 212 | 0.0216 | 3.1282 | 80.5715 | 22.9629 | 559.655 | 118646.766 | 321241.70 |
| 213 | 0.0217 | 3.1500 | 80.0479 | 22.8137 | 559.655 | 119206.420 | 319167.76 |
| 214 | 0.0219 | 3.1718 | 79.5209 | 22.6635 | 559.655 | 119766.075 | 317080.25 |
| 215 | 0.0220 | 3.1939 | 78.9904 | 22.5123 | 559.655 | 120325.729 | 314978.91 |
| 216 | 0.0222 | 3.2160 | 78.4563 | 22.3601 | 559.655 | 120885.384 | 312863.45 |
| 217 | 0.0223 | 3.2383 | 77.9186 | 22.2068 | 559.655 | 121445.039 | 310733.60 |
| 218 | 0.0225 | 3.2608 | 77.3771 | 22.0525 | 559.655 | 122004.693 | 308589.04 |
| 219 | 0.0226 | 3.2834 | 76.8318 | 21.8971 | 559.655 | 122564.348 | 306429.47 |
| 220 | 0.0228 | 3.3062 | 76.2826 | 21.7405 | 559.655 | 123124.002 | 304254.57 |
| 221 | 0.0230 | 3.3292 | 75.7294 | 21.5829 | 559.655 | 123683.657 | 302064.01 |
| 222 | 0.0231 | 3.3523 | 75.1722 | 21.4241 | 559.655 | 124243.311 | 299857.45 |
| 223 | 0.0233 | 3.3756 | 74.6107 | 21.2641 | 559.655 | 124802.966 | 297634.54 |
| 224 | 0.0235 | 3.3991 | 74.0451 | 21.1028 | 559.655 | 125362.620 | 295394.89 |
| 225 | 0.0237 | 3.4228 | 73.4750 | 20.9404 | 559.655 | 125922.275 | 293138.13 |
| 226 | 0.0238 | 3.4466 | 72.9006 | 20.7767 | 559.655 | 126481.930 | 290863.86 |
| 227 | 0.0240 | 3.4706 | 72.3215 | 20.6116 | 559.655 | 127041.584 | 288571.66 |
| 228 | 0.0242 | 3.4949 | 71.7378 | 20.4453 | 559.655 | 127601.239 | 286261.11 |
| 229 | 0.0244 | 3.5193 | 71.1493 | 20.2775 | 559.655 | 128160.893 | 283931.76 |
| 230 | 0.0246 | 3.5439 | 70.5559 | 20.1084 | 559.655 | 128720.548 | 281583.14 |
| 231 | 0.0248 | 3.5687 | 69.9574 | 19.9379 | 559.655 | 129280.202 | 279214.76 |
| 232 | 0.0251 | 3.5938 | 69.3538 | 19.7658 | 559.655 | 129839.857 | 276826.12 |
| 233 | 0.0253 | 3.6191 | 68.7449 | 19.5923 | 559.655 | 130399.511 | 274416.68 |
| 234 | 0.0255 | 3.6446 | 68.1305 | 19.4172 | 559.655 | 130959.166 | 271985.90 |
| 235 | 0.0257 | 3.6703 | 67.5106 | 19.2405 | 559.655 | 131518.821 | 269533.20 |
| 236 | 0.0260 | 3.6963 | 66.8849 | 19.0622 | 559.655 | 132078.475 | 267057.97 |
| 237 | 0.0262 | 3.7225 | 66.2533 | 18.8822 | 559.655 | 132638.130 | 264559.58 |
| 238 | 0.0265 | 3.7489 | 65.6156 | 18.7004 | 559.655 | 133197.784 | 262037.37 |
| 239 | 0.0267 | 3.7757 | 64.9716 | 18.5169 | 559.655 | 133757.439 | 259490.64 |
| 240 | 0.0270 | 3.8027 | 64.3212 | 18.3316 | 559.655 | 134317.093 | 256918.67 |
| 241 | 0.0273 | 3.8299 | 63.6642 | 18.1443 | 559.655 | 134876.748 | 254320.69 |
| 242 | 0.0276 | 3.8575 | 63.0003 | 17.9551 | 559.655 | 135436.402 | 251695.88 |
| 243 | 0.0278 | 3.8853 | 62.3294 | 17.7639 | 559.655 | 135996.057 | 249043.41 |
| 244 | 0.0281 | 3.9135 | 61.6511 | 17.5706 | 559.655 | 136555.712 | 246362.39 |

| | | | | | | | |
|-----|--------|--------|---------|---------|---------|------------|-----------|
| 245 | 0.0285 | 3.9419 | 60.9653 | 17.3751 | 559.655 | 137115.366 | 243651.85 |
| 246 | 0.0288 | 3.9707 | 60.2717 | 17.1774 | 559.655 | 137675.021 | 240910.82 |
| 247 | 0.0291 | 3.9999 | 59.5700 | 16.9775 | 559.655 | 138234.675 | 238138.24 |
| 248 | 0.0295 | 4.0293 | 58.8600 | 16.7751 | 559.655 | 138794.330 | 235332.99 |
| 249 | 0.0298 | 4.0592 | 58.1413 | 16.5703 | 559.655 | 139353.984 | 232493.90 |
| 250 | 0.0302 | 4.0894 | 57.4136 | 16.3629 | 559.655 | 139913.639 | 229619.69 |
| 251 | 0.0306 | 4.1199 | 56.6765 | 16.1528 | 559.655 | 140473.293 | 226709.04 |
| 252 | 0.0310 | 4.1509 | 55.9297 | 15.9400 | 559.655 | 141032.948 | 223760.53 |
| 253 | 0.0314 | 4.1823 | 55.1729 | 15.7243 | 559.655 | 141592.603 | 220772.64 |
| 254 | 0.0318 | 4.2142 | 54.4055 | 15.5056 | 559.655 | 142152.257 | 217743.74 |
| 255 | 0.0323 | 4.2465 | 53.6271 | 15.2837 | 559.655 | 142711.912 | 214672.10 |
| 256 | 0.0328 | 4.2793 | 52.8372 | 15.0586 | 559.655 | 143271.566 | 211555.86 |
| 257 | 0.0333 | 4.3126 | 52.0354 | 14.8301 | 559.655 | 143831.221 | 208393.01 |
| 258 | 0.0338 | 4.3464 | 51.2210 | 14.5980 | 559.655 | 144390.875 | 205181.41 |
| 259 | 0.0343 | 4.3807 | 50.3935 | 14.3621 | 559.655 | 144950.530 | 201918.71 |
| 260 | 0.0349 | 4.4156 | 49.5521 | 14.1223 | 559.655 | 145510.184 | 198602.41 |
| 261 | 0.0355 | 4.4511 | 48.6962 | 13.8784 | 559.655 | 146069.839 | 195229.77 |
| 262 | 0.0362 | 4.4873 | 47.8250 | 13.6301 | 559.655 | 146629.494 | 191797.81 |
| 263 | 0.0368 | 4.5241 | 46.9376 | 13.3772 | 559.655 | 147189.148 | 188303.29 |
| 264 | 0.0375 | 4.5617 | 46.0331 | 13.1194 | 559.655 | 147748.803 | 184742.66 |
| 265 | 0.0383 | 4.6000 | 45.1105 | 12.8565 | 559.655 | 148308.457 | 181112.01 |
| 266 | 0.0391 | 4.6391 | 44.1686 | 12.5881 | 559.655 | 148868.112 | 177407.05 |
| 267 | 0.0399 | 4.6790 | 43.2062 | 12.3138 | 559.655 | 149427.766 | 173623.01 |
| 268 | 0.0409 | 4.7199 | 42.2218 | 12.0332 | 559.655 | 149987.421 | 169754.59 |
| 269 | 0.0418 | 4.7617 | 41.2140 | 11.7460 | 559.655 | 150547.075 | 165795.89 |
| 270 | 0.0429 | 4.8046 | 40.1809 | 11.4516 | 559.655 | 151106.730 | 161740.28 |
| 271 | 0.0440 | 4.8486 | 39.1205 | 11.1493 | 559.655 | 151666.385 | 157580.24 |
| 272 | 0.0452 | 4.8938 | 38.0305 | 10.8387 | 559.655 | 152226.039 | 153307.29 |
| 273 | 0.0466 | 4.9404 | 36.9084 | 10.5189 | 559.655 | 152785.694 | 148911.67 |
| 274 | 0.0480 | 4.9884 | 35.7511 | 10.1891 | 559.655 | 153345.348 | 144382.17 |
| 275 | 0.0496 | 5.0380 | 34.5550 | 9.8482 | 559.655 | 153905.003 | 139705.73 |
| 276 | 0.0514 | 5.0895 | 33.3161 | 9.4951 | 559.655 | 154464.657 | 134867.05 |
| 277 | 0.0534 | 5.1429 | 32.0292 | 9.1283 | 559.655 | 155024.312 | 129847.93 |
| 278 | 0.0556 | 5.1985 | 30.6884 | 8.7462 | 559.655 | 155583.966 | 124626.51 |
| 279 | 0.0582 | 5.2567 | 29.2863 | 8.3466 | 559.655 | 156143.621 | 119176.11 |
| 280 | 0.0611 | 5.3178 | 27.8136 | 7.9269 | 559.655 | 156703.276 | 113463.59 |
| 281 | 0.0645 | 5.3824 | 26.2585 | 7.4837 | 559.655 | 157262.930 | 107446.93 |
| 282 | 0.0686 | 5.4510 | 24.6052 | 7.0125 | 559.655 | 157822.585 | 101071.47 |
| 283 | 0.0736 | 5.5246 | 22.8325 | 6.5073 | 559.655 | 158382.239 | 94263.82 |
| 284 | 0.0798 | 5.6043 | 20.9101 | 5.9594 | 559.655 | 158941.894 | 86921.38 |
| 285 | 0.0879 | 5.6923 | 18.7921 | 5.3558 | 559.655 | 159501.548 | 78892.63 |
| 286 | 0.0992 | 5.7914 | 16.4028 | 4.6748 | 559.655 | 160061.203 | 69936.12 |
| 287 | 0.1163 | 5.9077 | 13.6001 | 3.8760 | 559.655 | 160620.857 | 59619.01 |
| 288 | 0.1476 | 6.0553 | 10.0435 | 2.8624 | 559.655 | 161180.512 | 46982.32 |
| 289 | 0.2468 | 6.3022 | 4.0965 | 1.1675 | 559.655 | 161740.167 | 28097.65 |