

Appendix A: Major Element Data

Table A1: Electron Microprobe Analysis of sample A-I-2

| Distance from coral center (microns) | Transect 1 Mg/Ca | Transect 2 Mg/Ca |
|--------------------------------------|------------------|------------------|
| 17.0113                              | 0.578884         | 0.54417          |
| 21.2641                              | 0.563926         | 0.54062          |
| 25.517                               | 0.539605         | 0.53736          |
| 29.7698                              | 0.540906         | 0.52902          |
| 34.0226                              | 0.535528         | 0.52489          |
| 38.2754                              | 0.552883         | 0.52774          |
| 42.5283                              | 0.550781         | 0.51718          |
| 46.7811                              | 0.559191         | 0.50887          |
| 51.0339                              | 0.558461         | 0.50842          |
| 55.2867                              | 0.550779         | 0.50974          |
| 59.5396                              | 0.496921         | 0.48915          |
| 63.7924                              | 0.477245         | 0.50056          |
| 68.0452                              | 0.452523         | 0.5072           |
| 72.298                               | 0.454098         | 0.49413          |
| 76.5509                              | 0.450119         | 0.47794          |
| 80.8037                              | 0.450658         | 0.44096          |
| 85.0565                              | 0.46191          | 0.4541           |
| 89.3093                              | 0.466502         | 0.44432          |
| 93.5622                              | 0.470521         | 0.46401          |
| 97.815                               | 0.487667         | 0.42964          |
| 102.068                              | 0.447124         | 0.44566          |
| 106.321                              | 0.460915         | 0.48224          |
| 110.573                              | 0.449766         | 0.50403          |
| 114.826                              | 0.457769         | 0.51045          |
| 119.079                              | 0.455395         | 0.51775          |
| 123.332                              | 0.459476         | 0.54131          |
| 127.585                              | 0.471826         | 0.5164           |
| 131.838                              | 0.49288          | 0.50506          |
| 136.09                               | 0.518112         | 0.47376          |
| 140.343                              | 0.535177         | 0.47135          |
| 144.596                              | 0.532258         | 0.43278          |
| 148.849                              | 0.506145         | 0.4334           |
| 153.102                              | 0.494814         | 0.43128          |
| 157.355                              | 0.443867         | 0.43203          |
| 161.607                              | 0.43077          | 0.42057          |
| 165.86                               | 0.408973         | 0.42913          |
| 170.113                              | 0.417269         | 0.44076          |
| 174.366                              | 0.409157         | 0.45617          |
| 178.619                              | 0.420494         | 0.46356          |
| 182.872                              | 0.394108         | 0.4703           |
| 187.124                              | 0.425179         | 0.46137          |
| 191.377                              | 0.439565         | 0.47577          |
| 195.63                               | 0.433912         | 0.44409          |
| 199.883                              | 0.397358         | 0.4279           |
| 204.136                              | 0.41974          | 0.41199          |

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| 208.388 | 0.424576 | 0.40108 |
| 212.641 | 0.411476 | 0.3898  |
| 216.894 | 0.415376 | 0.40186 |
| 221.147 | 0.468076 | 0.41336 |
| 225.4   | 0.44844  | 0.39999 |
| 229.653 | 0.439301 | 0.39397 |
| 233.905 | 0.420363 | 0.41718 |
| 238.158 | 0.441519 | 0.40735 |
| 242.411 | 0.432156 | 0.42639 |
| 246.664 | 0.438097 | 0.44261 |
| 250.917 | 0.433716 | 0.45883 |
| 255.17  | 0.449458 | 0.44765 |
| 259.422 | 0.445039 | 0.44901 |
| 263.675 | 0.433975 | 0.47329 |
| 267.928 | 0.408085 | 0.4751  |
| 272.181 | 0.400415 | 0.4625  |
| 276.434 | 0.399317 | 0.44332 |
| 280.687 | 0.388246 | 0.44543 |
| 284.939 | 0.39601  | 0.44309 |
| 289.192 | 0.427355 | 0.40975 |
| 293.445 | 0.468228 | 0.37877 |
| 297.698 | 0.506952 | 0.39326 |
| 301.951 | 0.501417 | 0.39368 |
| 306.203 | 0.458629 | 0.43364 |
| 310.456 | 0.440506 | 0.41762 |
| 314.709 | 0.429291 | 0.42284 |
| 318.962 | 0.455945 | 0.39529 |
| 323.215 | 0.414607 | 0.41727 |
| 327.468 | 0.419898 | 0.40927 |
| 331.72  | 0.397624 | 0.4182  |
| 335.973 | 0.415583 | 0.38788 |
| 340.226 | 0.412787 | 0.40318 |
| 344.479 | 0.426425 | 0.4063  |
| 348.732 | 0.427461 | 0.39817 |
| 352.985 | 0.428761 | 0.41027 |
| 357.237 | 0.433632 | 0.41939 |
| 361.49  | 0.406288 | 0.41649 |
| 365.743 | 0.410088 | 0.39602 |
| 369.996 | 0.414913 | 0.41395 |
| 374.249 | 0.413148 | 0.42203 |
| 378.502 | 0.385354 | 0.42284 |
| 382.754 | 0.375867 | 0.42172 |
| 387.007 | 0.374381 | 0.41134 |
| 391.26  | 0.377633 | 0.40476 |
| 395.513 | 0.389427 | 0.39058 |
| 399.766 | 0.410857 | 0.3921  |
| 404.018 | 0.447905 | 0.391   |
| 408.271 | 0.458531 | 0.40712 |
| 412.524 | 0.447829 | 0.41251 |

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| 416.777 | 0.44708  | 0.42767 |
| 421.03  | 0.446211 | 0.4473  |
| 425.283 | 0.434987 | 0.42695 |
| 429.535 | 0.438744 | 0.4345  |
| 433.788 | 0.432229 | 0.4405  |
| 438.041 | 0.3986   | 0.45868 |
| 442.294 | 0.389837 | 0.44915 |
| 446.547 | 0.400984 | 0.46463 |
| 450.8   | 0.402339 | 0.44318 |
| 455.052 | 0.427397 | 0.42003 |
| 459.305 | 0.445966 | 0.42315 |
| 463.558 | 0.440272 | 0.41124 |
| 467.811 | 0.441658 | 0.39808 |
| 472.064 | 0.467933 | 0.42299 |
| 476.317 | 0.482872 | 0.445   |
| 480.569 | 0.451646 | 0.40384 |
| 484.822 | 0.463039 | 0.39194 |
| 489.075 | 0.455506 | 0.41011 |
| 493.328 | 0.441099 | 0.41776 |
| 497.581 | 0.406794 | 0.4169  |
| 501.833 | 0.422056 | 0.40031 |
| 506.086 | 0.44197  | 0.42778 |
| 510.339 | 0.430376 | 0.41026 |
| 514.592 | 0.407162 | 0.39921 |
| 518.845 | 0.398654 | 0.40802 |
| 523.098 | 0.424264 | 0.41593 |
| 527.35  | 0.463345 | 0.38016 |
| 531.603 | 0.485224 | 0.39339 |
| 535.856 | 0.442296 | 0.40609 |
| 540.109 | 0.416973 | 0.39292 |
| 544.362 | 0.422026 | 0.38912 |
| 548.615 | 0.405641 | 0.41215 |
| 552.867 | 0.388136 | 0.39945 |
| 557.12  | 0.371395 | 0.38853 |
| 561.373 | 0.382622 | 0.39901 |
| 565.626 | 0.384458 | 0.42123 |
| 569.879 | 0.429537 | 0.41222 |
| 574.132 | 0.418624 | 0.40817 |
| 578.384 | 0.439914 | 0.41168 |
| 582.637 | 0.424721 | 0.41971 |
| 586.89  | 0.420943 | 0.41014 |
| 591.143 | 0.424078 | 0.4042  |
| 595.396 | 0.428154 | 0.40963 |
| 599.648 | 0.416806 | 0.42528 |
| 603.901 | 0.437969 | 0.44517 |
| 608.154 | 0.455087 | 0.43299 |
| 612.407 | 0.436802 | 0.41563 |
| 616.66  | 0.455755 | 0.39895 |
| 620.913 | 0.462346 | 0.39663 |

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| 625.165 | 0.443478 | 0.38776 |
| 629.418 | 0.422726 | 0.38849 |
| 633.671 | 0.411826 | 0.38993 |
| 637.924 | 0.414765 | 0.39613 |
| 642.177 | 0.428686 | 0.43287 |
| 646.43  | 0.441949 | 0.43485 |
| 650.682 | 0.439962 | 0.45253 |
| 654.935 | 0.442144 | 0.457   |
| 659.188 | 0.459332 | 0.46522 |
| 663.441 | 0.44983  | 0.45197 |
| 667.694 | 0.447355 | 0.42199 |
| 671.947 | 0.447814 | 0.41306 |
| 676.199 | 0.429965 | 0.39186 |
| 680.452 | 0.408569 | 0.4067  |
| 684.705 | 0.387614 | 0.40503 |
| 688.958 | 0.402585 | 0.41806 |
| 693.211 | 0.393766 | 0.39516 |
| 697.463 | 0.412965 | 0.40746 |
| 701.716 | 0.409083 | 0.39978 |
| 705.969 | 0.433224 | 0.41052 |
| 710.222 | 0.43844  | 0.40862 |
| 714.475 | 0.424468 | 0.40552 |
| 718.728 | 0.410234 | 0.42286 |
| 722.98  | 0.426714 | 0.43596 |
| 727.233 | 0.433084 | 0.4419  |
| 731.486 | 0.422329 | 0.42169 |
| 735.739 | 0.425247 | 0.41397 |
| 739.992 | 0.407768 | 0.39591 |
| 744.245 | 0.403792 | 0.3986  |
| 748.497 | 0.368647 | 0.38237 |
| 752.75  | 0.363525 | 0.40569 |
| 757.003 | 0.346802 | 0.38617 |
| 761.256 | 0.373887 | 0.37972 |
| 765.509 | 0.392886 | 0.36451 |
| 769.762 | 0.411899 | 0.381   |
| 774.014 | 0.426723 | 0.3789  |
| 778.267 | 0.407185 | 0.38407 |
| 782.52  | 0.412887 | 0.38188 |
| 786.773 | 0.404054 | 0.39057 |
| 791.026 | 0.392769 | 0.38795 |
| 795.278 | 0.394966 | 0.38866 |
| 799.531 | 0.395685 | 0.40938 |
| 803.784 | 0.390643 | 0.42076 |
| 808.037 | 0.387698 | 0.41957 |
| 812.29  | 0.377512 | 0.42184 |
| 816.543 | 0.394592 | 0.40424 |
| 820.795 | 0.390231 | 0.38553 |
| 825.048 | 0.391264 | 0.37491 |
| 829.301 | 0.363779 | 0.38225 |

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| 833.554 | 0.385283 | 0.38389 |
| 837.807 | 0.391393 | 0.36794 |
| 842.06  | 0.397266 | 0.36861 |
| 846.312 | 0.414228 | 0.37388 |
| 850.565 | 0.422209 | 0.37582 |
| 854.818 | 0.436568 | 0.36659 |
| 859.071 | 0.431463 | 0.38072 |
| 863.324 | 0.424287 | 0.37841 |
| 867.577 | 0.398962 | 0.38805 |
| 871.829 | 0.400095 | 0.39044 |
| 876.082 | 0.375436 | 0.40415 |
| 880.335 | 0.385093 | 0.39564 |
| 884.588 | 0.391052 | 0.3886  |
| 888.841 | 0.393119 | 0.39621 |
| 893.093 | 0.39417  | 0.38346 |
| 897.346 | 0.422    | 0.39004 |
| 901.599 | 0.424606 | 0.39228 |
| 905.852 | 0.410279 | 0.39913 |
| 910.105 | 0.400952 | 0.3715  |
| 914.358 | 0.397867 | 0.3644  |
| 918.61  | 0.390041 | 0.36399 |
| 922.863 | 0.404019 | 0.3743  |
| 927.116 | 0.411799 | 0.36982 |
| 931.369 | 0.420296 | 0.39111 |
| 935.622 | 0.432004 | 0.42137 |
| 939.875 | 0.437805 | 0.43224 |
| 944.127 | 0.445104 | 0.44014 |
| 948.38  | 0.439088 | 0.46753 |
| 952.633 | 0.433638 | 0.47397 |
| 956.886 | 0.439889 | 0.46011 |
| 961.139 | 0.444361 | 0.42516 |
| 965.392 | 0.419892 | 0.41296 |
| 969.644 | 0.403602 | 0.39623 |
| 973.897 | 0.411334 | 0.36922 |
| 978.15  | 0.404652 | 0.35993 |
| 982.403 | 0.387815 | 0.3463  |
| 986.656 | 0.382157 | 0.35038 |
| 990.908 | 0.394388 | 0.35321 |
| 995.161 | 0.377123 | 0.36807 |
| 999.414 | 0.379782 | 0.35547 |
| 1003.67 | 0.4024   | 0.37557 |
| 1007.92 | 0.418222 | 0.37632 |
| 1012.17 | 0.401386 | 0.39199 |
| 1016.43 | 0.411835 | 0.38901 |
| 1020.68 | 0.41531  | 0.39182 |
| 1024.93 | 0.401173 | 0.40038 |
| 1029.18 | 0.378572 | 0.40807 |
| 1033.44 | 0.394473 | 0.40854 |
| 1037.69 | 0.386377 | 0.39678 |

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| 1041.94 | 0.392822 | 0.404   |
| 1046.2  | 0.370762 | 0.39053 |
| 1050.45 | 0.37154  | 0.38969 |
| 1054.7  | 0.344039 | 0.38982 |
| 1058.95 | 0.340379 | 0.39671 |
| 1063.21 | 0.325422 | 0.36941 |
| 1067.46 | 0.342985 | 0.37703 |
| 1071.71 | 0.346181 | 0.35287 |
| 1075.96 | 0.353169 | 0.36773 |
| 1080.22 | 0.355002 | 0.35994 |
| 1084.47 | 0.365189 | 0.37277 |
| 1088.72 | 0.378179 | 0.36178 |
| 1092.98 | 0.428574 | 0.35821 |
| 1097.23 | 0.449087 | 0.35389 |
| 1101.48 | 0.429376 | 0.36239 |
| 1105.73 | 0.42157  | 0.37913 |
| 1109.99 | 0.413316 | 0.39777 |
| 1114.24 | 0.392541 | 0.40102 |
| 1118.49 | 0.37994  | 0.41238 |
| 1122.75 | 0.411631 | 0.38776 |
| 1127    | 0.421689 | 0.39271 |
| 1131.25 | 0.397513 | 0.398   |
| 1135.5  | 0.395205 | 0.41204 |
| 1139.76 | 0.418153 | 0.41005 |
| 1144.01 | 0.439224 | 0.40439 |
| 1148.26 | 0.422797 | 0.38182 |
| 1152.52 | 0.438997 | 0.38132 |
| 1156.77 | 0.435456 | 0.38728 |
| 1161.02 | 0.435316 | 0.38445 |
| 1165.27 | 0.435725 | 0.38386 |
| 1169.53 | 0.428619 | 0.39784 |
| 1173.78 | 0.40944  | 0.4283  |
| 1178.03 | 0.388943 | 0.42139 |
| 1182.29 | 0.382152 | 0.41432 |
| 1186.54 | 0.378129 | 0.3957  |
| 1190.79 | 0.388442 | 0.39049 |
| 1195.04 | 0.38081  | 0.38973 |
| 1199.3  | 0.384929 | 0.40243 |
| 1203.55 | 0.391199 | 0.41685 |
| 1207.8  | 0.396434 | 0.42432 |
| 1212.06 | 0.391549 | 0.42127 |
| 1216.31 | 0.386816 | 0.41016 |
| 1220.56 | 0.403699 | 0.41665 |
| 1224.81 | 0.413773 | 0.41916 |
| 1229.07 | 0.415247 | 0.44522 |
| 1233.32 | 0.408517 | 0.43573 |
| 1237.57 | 0.400077 | 0.43605 |
| 1241.83 | 0.408328 | 0.41831 |
| 1246.08 | 0.394322 | 0.4238  |

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| 1250.33 | 0.373251 | 0.41445 |
| 1254.58 | 0.364375 | 0.4281  |
| 1258.84 | 0.394984 | 0.41203 |
| 1263.09 | 0.407786 | 0.44713 |
| 1267.34 | 0.412125 | 0.45692 |
| 1271.59 | 0.409916 | 0.47267 |
| 1275.85 | 0.424964 | 0.44937 |
| 1280.1  | 0.440265 | 0.44196 |
| 1284.35 | 0.413431 | 0.40785 |
| 1288.61 | 0.386746 | 0.41525 |
| 1292.86 | 0.381173 | 0.41402 |
| 1297.11 | 0.385652 | 0.46202 |
| 1301.36 | 0.403238 | 0.4346  |
| 1305.62 | 0.414056 | 0.45047 |
| 1309.87 | 0.435423 | 0.39205 |
| 1314.12 | 0.435945 | 0.37825 |
| 1318.38 | 0.445094 | 0.37879 |
| 1322.63 | 0.415949 | 0.38843 |
| 1326.88 | 0.383713 | 0.36983 |
| 1331.13 | 0.38786  | 0.39258 |
| 1335.39 | 0.41125  | 0.41203 |
| 1339.64 | 0.383803 | 0.41643 |
| 1343.89 | 0.382103 | 0.3996  |
| 1348.15 | 0.402423 | 0.41435 |
| 1352.4  | 0.424132 | 0.40364 |
| 1356.65 | 0.41795  | 0.40021 |
| 1360.9  | 0.426656 | 0.37325 |
| 1365.16 | 0.40813  | 0.3803  |
| 1369.41 | 0.418031 | 0.37627 |
| 1373.66 | 0.408231 | 0.37583 |
| 1377.92 | 0.399682 | 0.36768 |
| 1382.17 | 0.38659  | 0.39396 |
| 1386.42 | 0.37866  | 0.38442 |
| 1390.67 | 0.361888 | 0.38097 |
| 1394.93 | 0.349047 | 0.37344 |
| 1399.18 | 0.356052 | 0.38559 |
| 1403.43 | 0.368577 | 0.40214 |
| 1407.69 | 0.366165 | 0.39998 |
| 1411.94 | 0.37839  | 0.42448 |
| 1416.19 | 0.40865  | 0.44287 |
| 1420.44 | 0.424449 | 0.44608 |
| 1424.7  | 0.438623 | 0.40947 |
| 1428.95 | 0.441896 | 0.38895 |
| 1433.2  | 0.417025 | 0.38192 |
| 1437.46 | 0.415711 | 0.39238 |
| 1441.71 | 0.397826 | 0.39211 |
| 1445.96 | 0.412462 | 0.40169 |
| 1450.21 | 0.384113 | 0.40197 |
| 1454.47 | 0.406209 | 0.40725 |

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| 1458.72 | 0.401241 | 0.42143 |
| 1462.97 | 0.414766 | 0.39948 |
| 1467.22 | 0.405298 | 0.39136 |
| 1471.48 | 0.415974 | 0.38621 |
| 1475.73 | 0.390526 | 0.40665 |
| 1479.98 | 0.389234 | 0.41708 |
| 1484.24 | 0.353983 | 0.45186 |
| 1488.49 | 0.366789 | 0.41453 |
| 1492.74 | 0.359234 | 0.41584 |
| 1496.99 | 0.365479 | 0.37809 |
| 1501.25 | 0.347607 | 0.38644 |
| 1505.5  | 0.379566 | 0.36072 |
| 1509.75 | 0.391207 | 0.37049 |
| 1514.01 | 0.375026 | 0.37609 |
| 1518.26 | 0.383723 | 0.37958 |
| 1522.51 | 0.391557 | 0.40395 |
| 1526.76 | 0.379208 | 0.40374 |
| 1531.02 | 0.35216  | 0.43302 |
| 1535.27 | 0.361582 | 0.44155 |
| 1539.52 | 0.367475 | 0.4636  |
| 1543.78 | 0.345854 | 0.46275 |
| 1548.03 | 0.348378 | 0.47583 |
| 1552.28 | 0.379018 | 0.47319 |
| 1556.53 | 0.39864  | 0.45685 |
| 1560.79 | 0.399984 | 0.4272  |
| 1565.04 | 0.399537 | 0.4415  |
| 1569.29 | 0.417591 | 0.42291 |
| 1573.55 | 0.403742 | 0.43159 |
| 1577.8  | 0.408854 | 0.42631 |
| 1582.05 | 0.417106 | 0.4048  |
| 1586.3  | 0.446852 | 0.39553 |
| 1590.56 | 0.458298 | 0.38502 |
| 1594.81 | 0.448748 | 0.37481 |
| 1599.06 | 0.449068 | 0.37407 |
| 1603.32 | 0.448494 | 0.3937  |
| 1607.57 | 0.427788 | 0.39706 |
| 1611.82 | 0.422844 | 0.43112 |
| 1616.07 | 0.443477 | 0.46649 |
| 1620.33 | 0.449513 | 0.4527  |
| 1624.58 | 0.445353 | 0.44733 |
| 1628.83 | 0.456133 | 0.46064 |
| 1633.09 | 0.48638  | 0.4554  |
| 1637.34 | 0.440036 | 0.42867 |
| 1641.59 | 0.428558 | 0.40071 |
| 1645.84 | 0.407144 | 0.40648 |
| 1650.1  | 0.378772 | 0.41416 |
| 1654.35 | 0.358504 | 0.42671 |
| 1658.6  | 0.371188 | 0.40109 |
| 1662.85 | 0.380234 | 0.4231  |



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| 1667.11 | 0.396535 | 0.42446 |
| 1671.36 | 0.404252 | 0.43731 |
| 1675.61 | 0.421119 | 0.42775 |
| 1679.87 | 0.397741 | 0.44796 |
| 1684.12 | 0.405783 | 0.43767 |
| 1688.37 | 0.396161 | 0.44593 |
| 1692.62 | 0.402668 | 0.44568 |
| 1696.88 | 0.403763 | 0.43688 |
| 1701.13 | 0.392248 | 0.42384 |
| 1705.38 | 0.377581 | 0.41782 |
| 1709.64 | 0.360511 | 0.39697 |
| 1713.89 | 0.376758 | 0.40752 |
| 1718.14 | 0.381298 | 0.4136  |
| 1722.39 | 0.382344 | 0.41854 |
| 1726.65 | 0.362417 | 0.40138 |
| 1730.9  | 0.394248 | 0.40678 |
| 1735.15 | 0.408345 | 0.39102 |
| 1739.41 | 0.419939 | 0.37477 |
| 1743.66 | 0.412542 | 0.36931 |
| 1747.91 | 0.411325 | 0.37527 |
| 1752.16 | 0.402565 | 0.37771 |
| 1756.42 | 0.398843 | 0.36886 |
| 1760.67 | 0.400096 | 0.38226 |
| 1764.92 | 0.408338 | 0.38354 |
| 1769.18 | 0.394618 | 0.38507 |
| 1773.43 | 0.384371 | 0.39036 |
| 1777.68 | 0.369886 | 0.41004 |
| 1781.93 | 0.399582 | 0.37989 |
| 1786.19 | 0.384138 | 0.38841 |
| 1790.44 | 0.36422  | 0.37807 |
| 1794.69 | 0.372283 | 0.37223 |
| 1798.95 | 0.399975 | 0.36037 |
| 1803.2  | 0.385577 | 0.39047 |
| 1807.45 | 0.374001 | 0.38297 |
| 1811.7  | 0.382509 | 0.39356 |
| 1815.96 | 0.402323 | 0.4052  |
| 1820.21 | 0.387603 | 0.41717 |
| 1824.46 | 0.380023 | 0.40501 |
| 1828.72 | 0.390529 | 0.41952 |
| 1832.97 | 0.425192 | 0.41379 |
| 1837.22 | 0.43898  | 0.4405  |
| 1841.47 | 0.423927 | 0.45237 |
| 1845.73 | 0.451793 | 0.45322 |
| 1849.98 | 0.447826 | 0.43302 |
| 1854.23 | 0.411005 | 0.4384  |
| 1858.48 | 0.384523 | 0.42069 |
| 1862.74 | 0.392469 | 0.40566 |
| 1866.99 | 0.391817 | 0.41209 |
| 1871.24 | 0.392727 | 0.4291  |

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| 1875.5  | 0.396511 | 0.413   |
| 1879.75 | 0.38842  | 0.40273 |
| 1884    | 0.37114  | 0.39977 |
| 1888.25 | 0.362673 | 0.40745 |
| 1892.51 | 0.355948 | 0.38286 |
| 1896.76 | 0.351402 | 0.38638 |
| 1901.01 | 0.33403  | 0.3961  |
| 1905.27 | 0.332532 | 0.40994 |
| 1909.52 | 0.35309  | 0.41881 |
| 1913.77 | 0.355027 | 0.44701 |
| 1918.02 | 0.344652 | 0.43917 |
| 1922.28 | 0.344901 | 0.43479 |
| 1926.53 | 0.373763 | 0.40258 |
| 1930.78 | 0.367572 | 0.38845 |
| 1935.04 | 0.340901 | 0.37315 |
| 1939.29 | 0.355451 | 0.37471 |
| 1943.54 | 0.35135  | 0.36092 |
| 1947.79 | 0.351394 | 0.37802 |
| 1952.05 | 0.361788 | 0.40299 |
| 1956.3  | 0.373668 | 0.37951 |
| 1960.55 | 0.396305 | 0.38179 |
| 1964.81 | 0.415733 | 0.37562 |
| 1969.06 | 0.39425  | 0.38058 |
| 1973.31 | 0.388048 | 0.38581 |
| 1977.56 | 0.395996 | 0.39302 |
| 1981.82 | 0.384691 | 0.38668 |
| 1986.07 | 0.370077 | 0.36932 |
| 1990.32 | 0.357991 | 0.35814 |
| 1994.58 | 0.347111 | 0.36685 |
| 1998.83 | 0.340412 | 0.37081 |
| 2003.08 | 0.342986 | 0.36961 |
| 2007.33 | 0.343146 | 0.36864 |
| 2011.59 | 0.339157 | 0.36487 |
| 2015.84 | 0.354478 | 0.39236 |
| 2020.09 | 0.337695 | 0.38804 |
| 2024.35 | 0.355899 | 0.36911 |
| 2028.6  | 0.361754 | 0.35301 |
| 2032.85 | 0.363317 | 0.36734 |
| 2037.1  | 0.356484 | 0.39015 |
| 2041.36 | 0.351165 | 0.37117 |
| 2045.61 | 0.365105 | 0.36336 |
| 2049.86 | 0.352072 | 0.37002 |
| 2054.11 | 0.345983 | 0.41872 |
| 2058.37 | 0.340916 | 0.40026 |
| 2062.62 | 0.356753 | 0.40509 |
| 2066.87 | 0.355547 | 0.39663 |
| 2071.13 | 0.37089  | 0.38055 |
| 2075.38 | 0.383375 | 0.34811 |
| 2079.63 | 0.391075 | 0.35495 |

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| 2083.88 | 0.402638 | 0.34759 |
| 2088.14 | 0.41263  | 0.36197 |
| 2092.39 | 0.409258 | 0.3509  |
| 2096.64 | 0.400422 | 0.35539 |
| 2100.9  | 0.405944 | 0.34904 |
| 2105.15 | 0.411317 | 0.38298 |
| 2109.4  | 0.386254 | 0.40268 |
| 2113.65 | 0.384029 | 0.41675 |
| 2117.91 | 0.364034 | 0.39574 |
| 2122.16 | 0.351343 | 0.39408 |
| 2126.41 | 0.352545 | 0.37925 |
| 2130.67 | 0.373419 | 0.38693 |
| 2134.92 | 0.385645 | 0.38278 |
| 2139.17 | 0.403794 | 0.37842 |
| 2143.42 | 0.402736 | 0.39088 |
| 2147.68 | 0.406273 | 0.39551 |
| 2151.93 | 0.38618  | 0.41415 |
| 2156.18 | 0.392836 | 0.42453 |
| 2160.44 | 0.394514 | 0.43864 |
| 2164.69 | 0.396673 | 0.42788 |
| 2168.94 | 0.387758 | 0.43148 |
| 2173.19 | 0.372067 | 0.44755 |
| 2177.45 | 0.359701 | 0.45029 |
| 2181.7  | 0.372126 | 0.45157 |
| 2185.95 | 0.373052 | 0.43983 |
| 2190.21 | 0.358676 | 0.45586 |
| 2194.46 | 0.378376 | 0.44062 |
| 2198.71 | 0.383315 | 0.44119 |
| 2202.96 | 0.385629 | 0.42946 |
| 2207.22 | 0.400623 | 0.43097 |
| 2211.47 | 0.444293 | 0.42307 |
| 2215.72 | 0.433119 | 0.419   |
| 2219.98 | 0.411793 | 0.41395 |
| 2224.23 | 0.40608  | 0.41277 |
| 2228.48 | 0.408259 | 0.42913 |
| 2232.73 | 0.394136 | 0.40061 |
| 2236.99 | 0.368399 | 0.39124 |
| 2241.24 | 0.360365 | 0.38752 |
| 2245.49 | 0.316219 | 0.39392 |
| 2249.74 | 0.265743 | 0.37221 |
| 2254    | 0.272661 | 0.35712 |
| 2258.25 | 0.32141  | 0.35572 |
| 2262.5  | 0.339186 | 0.37079 |
| 2266.76 | 0.362687 | 0.37613 |
| 2271.01 | 0.40823  | 0.37453 |
| 2275.26 | 0.422525 | 0.36365 |
| 2279.51 | 0.407528 | 0.36903 |
| 2283.77 | 0.402582 | 0.3612  |
| 2288.02 | 0.420033 | 0.36567 |

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| 2292.27 | 0.416387 | 0.35063 |
| 2296.53 | 0.423935 | 0.35139 |
| 2300.78 | 0.410311 | 0.35483 |
| 2305.03 | 0.417026 | 0.39099 |
| 2309.28 | 0.400729 | 0.39239 |
| 2313.54 | 0.410276 | 0.40211 |
| 2317.79 | 0.390163 | 0.38478 |
| 2322.04 | 0.383028 | 0.39422 |
| 2326.3  | 0.383821 | 0.3895  |
| 2330.55 | 0.403376 | 0.38587 |
| 2334.8  | 0.39738  | 0.36295 |
| 2339.05 | 0.371059 | 0.36445 |
| 2343.31 | 0.371953 | 0.3617  |
| 2347.56 | 0.374541 | 0.3731  |
| 2351.81 | 0.369134 | 0.39176 |
| 2356.07 | 0.365794 | 0.3957  |
| 2360.32 | 0.371838 | 0.4166  |
| 2364.57 | 0.398696 | 0.41014 |
| 2368.82 | 0.414157 | 0.41603 |
| 2373.08 | 0.417859 | 0.42943 |
| 2377.33 | 0.407394 | 0.41028 |
| 2381.58 | 0.406069 | 0.40745 |
| 2385.84 | 0.421405 | 0.41281 |
| 2390.09 | 0.392361 | 0.42094 |
| 2394.34 | 0.393335 | 0.41355 |
| 2398.59 | 0.406124 | 0.41142 |
| 2402.85 | 0.430959 | 0.42014 |
| 2407.1  | 0.425789 | 0.43336 |
| 2411.35 | 0.407971 | 0.43211 |
| 2415.61 | 0.399017 | 0.40949 |
| 2419.86 | 0.399387 | 0.40002 |
| 2424.11 | 0.390918 | 0.42326 |
| 2428.36 | 0.376131 | 0.39968 |
| 2432.62 | 0.380233 | 0.3776  |
| 2436.87 | 0.388725 | 0.3646  |
| 2441.12 | 0.382202 | 0.36732 |
| 2445.37 | 0.376602 | 0.34341 |
| 2449.63 | 0.373347 | 0.3325  |
| 2453.88 | 0.391981 | 0.33073 |
| 2458.13 | 0.374573 | 0.34393 |
| 2462.39 | 0.380516 | 0.35313 |
| 2466.64 | 0.399696 | 0.36572 |
| 2470.89 | 0.423656 | 0.38444 |
| 2475.14 | 0.406843 | 0.39464 |
| 2479.4  | 0.402049 | 0.3966  |
| 2483.65 | 0.394853 | 0.38632 |
| 2487.9  | 0.404658 | 0.38349 |
| 2492.16 | 0.390117 | 0.39625 |
| 2496.41 | 0.381224 | 0.3788  |

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| 2500.66 | 0.371915 | 0.38609 |
| 2504.91 | 0.411486 | 0.40565 |
| 2509.17 | 0.397549 | 0.42216 |
| 2513.42 | 0.415777 | 0.40013 |
| 2517.67 | 0.410462 | 0.41593 |
| 2521.93 | 0.44269  | 0.4245  |
| 2526.18 | 0.429164 | 0.41948 |
| 2530.43 | 0.436722 | 0.40305 |
| 2534.68 | 0.410362 | 0.40092 |
| 2538.94 | 0.414476 | 0.41214 |
| 2543.19 | 0.418939 | 0.41022 |
| 2547.44 | 0.420339 | 0.40998 |
| 2551.7  | 0.388206 | 0.4125  |
| 2555.95 | 0.402882 | 0.43275 |
| 2560.2  | 0.394807 | 0.42978 |
| 2564.45 | 0.40395  | 0.39718 |
| 2568.71 | 0.396279 | 0.39294 |
| 2572.96 | 0.417771 | 0.40189 |
| 2577.21 | 0.390052 | 0.4134  |
| 2581.47 | 0.376129 | 0.41662 |
| 2585.72 | 0.371973 | 0.40726 |
| 2589.97 | 0.403234 | 0.37975 |
| 2594.22 | 0.402933 | 0.39507 |
| 2598.48 | 0.400498 | 0.40663 |
| 2602.73 | 0.385188 | 0.4295  |
| 2606.98 | 0.39981  | 0.39424 |
| 2611.24 | 0.402547 | 0.4198  |
| 2615.49 | 0.398352 | 0.41214 |
| 2619.74 | 0.388723 | 0.41117 |
| 2623.99 | 0.401407 | 0.39058 |
| 2628.25 | 0.404186 | 0.39546 |
| 2632.5  | 0.422712 | 0.37952 |
| 2636.75 | 0.411276 | 0.36495 |
| 2641    | 0.393151 | 0.36612 |
| 2645.26 | 0.374008 | 0.38831 |
| 2649.51 | 0.399943 | 0.3847  |
| 2653.76 | 0.384177 | 0.40289 |
| 2658.02 | 0.384658 | 0.42781 |
| 2662.27 | 0.388379 | 0.44416 |
| 2666.52 | 0.399541 | 0.43103 |
| 2670.77 | 0.401889 | 0.43012 |
| 2675.03 | 0.385713 | 0.43963 |
| 2679.28 | 0.380721 | 0.429   |
| 2683.53 | 0.388173 | 0.41624 |
| 2687.79 | 0.404243 | 0.40537 |
| 2692.04 | 0.393091 | 0.38628 |
| 2696.29 | 0.421821 | 0.36799 |
| 2700.54 | 0.407643 | 0.36147 |
| 2704.8  | 0.383915 | 0.36384 |

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| 2709.05 | 0.373283 | 0.3558  |
| 2713.3  | 0.395491 | 0.3743  |
| 2717.56 | 0.380777 | 0.37427 |
| 2721.81 | 0.409628 | 0.38277 |
| 2726.06 | 0.410844 | 0.37661 |
| 2730.31 | 0.41844  | 0.37881 |
| 2734.57 | 0.425373 | 0.3908  |
| 2738.82 | 0.430024 | 0.37799 |
| 2743.07 | 0.416488 | 0.3646  |
| 2747.33 | 0.402552 | 0.34339 |
| 2751.58 | 0.403294 | 0.36774 |
| 2755.83 | 0.387713 | 0.37925 |
| 2760.08 | 0.360787 | 0.41423 |
| 2764.34 | 0.379737 | 0.42681 |
| 2768.59 | 0.374992 | 0.46154 |
| 2772.84 | 0.393445 | 0.44746 |
| 2777.1  | 0.376985 | 0.45747 |
| 2781.35 | 0.395617 | 0.41845 |
| 2785.6  | 0.374074 | 0.40717 |
| 2789.85 | 0.370271 | 0.37889 |
| 2794.11 | 0.365832 | 0.38028 |
| 2798.36 | 0.369915 | 0.37167 |
| 2802.61 | 0.372523 | 0.3635  |
| 2806.87 | 0.362009 | 0.38176 |
| 2811.12 | 0.369435 | 0.3906  |
| 2815.37 | 0.377392 | 0.38266 |
| 2819.62 | 0.391515 | 0.34596 |
| 2823.88 | 0.392388 | 0.36825 |
| 2828.13 | 0.408703 | 0.36023 |
| 2832.38 | 0.400199 | 0.3661  |
| 2836.63 | 0.402094 | 0.36489 |
| 2840.89 | 0.39644  | 0.39686 |
| 2845.14 | 0.403486 | 0.395   |
| 2849.39 | 0.417947 | 0.40694 |
| 2853.65 | 0.428003 | 0.416   |
| 2857.9  | 0.430956 | 0.43977 |
| 2862.15 | 0.411206 | 0.43967 |
| 2866.4  | 0.421968 | 0.43809 |
| 2870.66 | 0.403669 | 0.43032 |
| 2874.91 | 0.402603 | 0.44019 |
| 2879.16 | 0.364993 | 0.43191 |
| 2883.42 | 0.358079 | 0.42166 |
| 2887.67 | 0.362764 | 0.40556 |
| 2891.92 | 0.389485 | 0.38863 |
| 2896.17 | 0.387483 | 0.38883 |
| 2900.43 | 0.389476 | 0.36788 |
| 2904.68 | 0.389635 | 0.36709 |
| 2908.93 | 0.383361 | 0.36571 |
| 2913.19 | 0.375766 | 0.35235 |

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| 2917.44 | 0.385997 | 0.36196 |
| 2921.69 | 0.378843 | 0.35197 |
| 2925.94 | 0.371078 | 0.35756 |
| 2930.2  | 0.388014 | 0.34898 |
| 2934.45 | 0.391097 | 0.37181 |
| 2938.7  | 0.370571 | 0.37856 |
| 2942.96 | 0.369158 | 0.40604 |
| 2947.21 | 0.389432 | 0.41581 |
| 2951.46 | 0.385111 | 0.44213 |
| 2955.71 | 0.382471 | 0.4489  |
| 2959.97 | 0.373956 | 0.44599 |
| 2964.22 | 0.366963 | 0.4269  |
| 2968.47 | 0.365091 | 0.43261 |
| 2972.73 | 0.357446 | 0.42349 |
| 2976.98 | 0.349036 | 0.40995 |
| 2981.23 | 0.352425 | 0.42898 |
| 2985.48 | 0.381504 | 0.39203 |
| 2989.74 | 0.380091 | 0.38038 |
| 2993.99 | 0.379784 | 0.35475 |
| 2998.24 | 0.375414 | 0.37369 |
| 3002.5  | 0.383671 | 0.38623 |
| 3006.75 | 0.382627 | 0.39576 |
| 3011    | 0.393237 | 0.40934 |
| 3015.25 | 0.402405 | 0.39038 |
| 3019.51 | 0.402503 | 0.39461 |
| 3023.76 | 0.414971 | 0.37625 |
| 3028.01 | 0.399893 | 0.36149 |
| 3032.26 | 0.402807 | 0.34817 |
| 3036.52 | 0.410246 | 0.35693 |
| 3040.77 | 0.414912 | 0.3457  |
| 3045.02 | 0.4064   | 0.34268 |
| 3049.28 | 0.380572 | 0.37    |
| 3053.53 | 0.374268 | 0.37896 |
| 3057.78 | 0.354488 | 0.3843  |
| 3062.03 | 0.373529 | 0.39199 |
| 3066.29 | 0.365063 | 0.39265 |
| 3070.54 | 0.384608 | 0.37252 |
| 3074.79 | 0.38941  | 0.37777 |
| 3079.05 | 0.408852 | 0.36984 |
| 3083.3  | 0.389721 | 0.40765 |
| 3087.55 | 0.372597 | 0.3948  |
| 3091.8  | 0.366497 | 0.3975  |
| 3096.06 | 0.381561 | 0.39648 |
| 3100.31 | 0.374986 | 0.44959 |
| 3104.56 | 0.378357 | 0.44856 |
| 3108.82 | 0.373659 | 0.45064 |
| 3113.07 | 0.381939 | 0.45513 |
| 3117.32 | 0.385835 | 0.47749 |
| 3121.57 | 0.400868 | 0.45367 |

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| 3125.83 | 0.399319 | 0.44471 |
| 3130.08 | 0.415212 | 0.41504 |
| 3134.33 | 0.370422 | 0.42325 |
| 3138.59 | 0.367773 | 0.43511 |
| 3142.84 | 0.352508 | 0.44067 |
| 3147.09 | 0.390114 | 0.40523 |
| 3151.34 | 0.392053 | 0.43084 |
| 3155.6  | 0.389117 | 0.42954 |
| 3159.85 | 0.399827 | 0.43348 |
| 3164.1  | 0.399609 | 0.4105  |
| 3168.36 | 0.399992 | 0.42976 |
| 3172.61 | 0.406615 | 0.41395 |
| 3176.86 | 0.413537 | 0.4113  |
| 3181.11 | 0.391659 | 0.39048 |
| 3185.37 | 0.410933 | 0.39185 |
| 3189.62 | 0.399295 | 0.38621 |
| 3193.87 | 0.384769 | 0.38948 |
| 3198.13 | 0.392791 | 0.38015 |
| 3202.38 | 0.416353 | 0.42316 |
| 3206.63 | 0.387237 | 0.41942 |
| 3210.88 | 0.398672 | 0.3987  |
| 3215.14 | 0.401389 | 0.39014 |
| 3219.39 | 0.410916 | 0.39353 |
| 3223.64 | 0.398803 | 0.39875 |
| 3227.89 | 0.419455 | 0.40267 |
| 3232.15 | 0.409621 | 0.42018 |
| 3236.4  | 0.418153 | 0.40381 |
| 3240.65 | 0.412045 | 0.40298 |
| 3244.91 | 0.406288 | 0.38901 |
| 3249.16 | 0.399554 | 0.3673  |
| 3253.41 | 0.40077  | 0.3636  |
| 3257.66 | 0.396234 | 0.35862 |
| 3261.92 | 0.404941 | 0.36386 |
| 3266.17 | 0.406215 | 0.35862 |
| 3270.42 | 0.394323 | 0.3714  |
| 3274.68 | 0.396428 | 0.3669  |
| 3278.93 | 0.397663 | 0.39214 |
| 3283.18 | 0.39401  | 0.39473 |
| 3287.43 | 0.37055  | 0.39896 |
| 3291.69 | 0.385668 | 0.3847  |
| 3295.94 | 0.402639 | 0.41184 |
| 3300.19 | 0.413621 | 0.45483 |
| 3304.45 | 0.376313 | 0.46093 |
| 3308.7  | 0.378445 | 0.4663  |
| 3312.95 | 0.390544 | 0.44424 |
| 3317.2  | 0.411795 | 0.44907 |
| 3321.46 | 0.409298 | 0.43157 |
| 3325.71 | 0.412369 | 0.42219 |
| 3329.96 | 0.420605 | 0.4067  |



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| 3334.22 | 0.409731 | 0.43806 |
| 3338.47 | 0.383838 | 0.4255  |
| 3342.72 | 0.394037 | 0.43108 |
| 3346.97 | 0.438502 | 0.41086 |
| 3351.23 | 0.435071 | 0.39117 |
| 3355.48 | 0.421227 | 0.35967 |
| 3359.73 | 0.436055 | 0.35733 |
| 3363.99 | 0.437671 | 0.34109 |
| 3368.24 | 0.426773 | 0.34523 |
| 3372.49 | 0.386461 | 0.33205 |
| 3376.74 | 0.381059 | 0.35456 |
| 3381    | 0.398178 | 0.36086 |
| 3385.25 | 0.386383 | 0.38165 |
| 3389.5  | 0.373299 | 0.38296 |
| 3393.76 | 0.377603 | 0.38807 |
| 3398.01 | 0.398799 | 0.39225 |
| 3402.26 | 0.389723 | 0.3956  |
| 3406.51 | 0.369931 | 0.4182  |
| 3410.77 | 0.35835  | 0.41333 |
| 3415.02 | 0.367665 | 0.42861 |
| 3419.27 | 0.389935 | 0.41727 |
| 3423.52 | 0.390543 | 0.41758 |
| 3427.78 | 0.401135 | 0.38908 |
| 3432.03 | 0.388487 | 0.40016 |
| 3436.28 | 0.382138 | 0.37355 |
| 3440.54 | 0.369431 | 0.36467 |
| 3444.79 | 0.369719 | 0.35186 |
| 3449.04 | 0.351027 | 0.35191 |
| 3453.29 | 0.342029 | 0.33785 |
| 3457.55 | 0.338299 | 0.3443  |
| 3461.8  | 0.343576 | 0.35812 |
| 3466.05 | 0.345467 | 0.39581 |
| 3470.31 | 0.356784 | 0.39289 |
| 3474.56 | 0.358141 | 0.40206 |
| 3478.81 | 0.353777 | 0.39064 |
| 3483.06 | 0.341639 | 0.36501 |
| 3487.32 | 0.358779 | 0.38424 |
| 3491.57 | 0.372089 | 0.39456 |
| 3495.82 | 0.40004  | 0.3975  |
| 3500.08 | 0.403571 | 0.41724 |
| 3504.33 | 0.432384 | 0.4602  |
| 3508.58 | 0.428766 | 0.43832 |
| 3512.83 | 0.408601 | 0.4322  |
| 3517.09 | 0.395068 | 0.46008 |
| 3521.34 | 0.377836 | 0.46636 |
| 3525.59 | 0.367583 | 0.44627 |
| 3529.85 | 0.375196 | 0.41001 |
| 3534.1  | 0.390342 | 0.39947 |
| 3538.35 | 0.383096 | 0.36248 |

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| 3542.6  | 0.379486 | 0.3698  |
| 3546.86 | 0.366072 | 0.37991 |
| 3551.11 | 0.3566   | 0.39019 |
| 3555.36 | 0.352122 | 0.38801 |
| 3559.62 | 0.35245  | 0.41258 |
| 3563.87 | 0.327782 | 0.426   |
| 3568.12 | 0.31091  | 0.39146 |
| 3572.37 | 0.324095 | 0.39336 |
| 3576.63 | 0.329174 | 0.37369 |
| 3580.88 | 0.367169 | 0.40658 |
| 3585.13 | 0.410503 | 0.43951 |
| 3589.39 | 0.423394 | 0.44035 |
| 3593.64 | 0.424725 | 0.42594 |
| 3597.89 | 0.437382 | 0.44494 |
| 3602.14 | 0.417263 | 0.45113 |
| 3606.4  | 0.406386 | 0.42508 |
| 3610.65 | 0.417519 | 0.40215 |
| 3614.9  | 0.427011 | 0.40988 |
| 3619.15 | 0.401775 | 0.4166  |
| 3623.41 | 0.395027 | 0.40306 |
| 3627.66 | 0.410448 | 0.38285 |
| 3631.91 | 0.417737 | 0.3842  |
| 3636.17 | 0.405337 | 0.39103 |
| 3640.42 | 0.410494 | 0.38654 |
| 3644.67 | 0.430541 | 0.37543 |
| 3648.92 | 0.444406 | 0.38769 |
| 3653.18 | 0.437758 | 0.39112 |
| 3657.43 | 0.434894 | 0.40211 |
| 3661.68 | 0.42534  | 0.40521 |
| 3665.94 | 0.417507 | 0.39967 |
| 3670.19 | 0.412076 | 0.39365 |
| 3674.44 | 0.379766 | 0.40133 |
| 3678.69 | 0.38761  | 0.4046  |
| 3682.95 | 0.400202 | 0.39345 |
| 3687.2  | 0.427849 | 0.39887 |
| 3691.45 | 0.419688 | 0.42345 |
| 3695.71 | 0.420271 | 0.41266 |
| 3699.96 | 0.390261 | 0.41139 |
| 3704.21 | 0.398445 | 0.40731 |
| 3708.46 | 0.39123  | 0.40937 |
| 3712.72 | 0.394743 | 0.40269 |
| 3716.97 | 0.383033 | 0.40431 |
| 3721.22 | 0.394173 | 0.42633 |
| 3725.48 | 0.39483  | 0.42374 |
| 3729.73 | 0.399628 | 0.4016  |
| 3733.98 | 0.404354 | 0.40905 |
| 3738.23 | 0.380372 | 0.43756 |
| 3742.49 | 0.364896 | 0.40484 |
| 3746.74 | 0.372154 | 0.40061 |

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| 3750.99 | 0.404856 | 0.40246 |
| 3755.25 | 0.40653  | 0.40193 |
| 3759.5  | 0.3957   | 0.39086 |
| 3763.75 | 0.388475 | 0.36221 |
| 3768    | 0.392756 | 0.35167 |
| 3772.26 | 0.39725  | 0.34616 |
| 3776.51 | 0.400558 | 0.35135 |
| 3780.76 | 0.419769 | 0.33601 |
| 3785.02 | 0.437018 | 0.34034 |
| 3789.27 | 0.425795 | 0.33572 |
| 3793.52 | 0.393612 | 0.37427 |
| 3797.77 | 0.387877 | 0.38099 |
| 3802.03 | 0.377762 | 0.40771 |
| 3806.28 | 0.375908 | 0.39836 |
| 3810.53 | 0.389495 | 0.40499 |
| 3814.78 | 0.405463 | 0.40505 |
| 3819.04 | 0.399986 | 0.40806 |
| 3823.29 | 0.409929 | 0.3806  |
| 3827.54 | 0.421309 | 0.37618 |
| 3831.8  | 0.403643 | 0.37443 |
| 3836.05 | 0.376249 | 0.39418 |
| 3840.3  | 0.383817 | 0.37828 |
| 3844.55 | 0.374956 | 0.37407 |
| 3848.81 | 0.373232 | 0.38325 |
| 3853.06 | 0.367408 | 0.37723 |
| 3857.31 | 0.363244 | 0.35    |
| 3861.57 | 0.333493 | 0.36062 |
| 3865.82 | 0.34245  | 0.36919 |
| 3870.07 | 0.330542 | 0.3768  |
| 3874.32 | 0.336818 | 0.37825 |
| 3878.58 | 0.338848 | 0.38201 |
| 3882.83 | 0.373741 | 0.3919  |
| 3887.08 | 0.37133  | 0.3769  |
| 3891.34 | 0.367875 | 0.37336 |
| 3895.59 | 0.364027 | 0.37929 |
| 3899.84 | 0.386885 | 0.37015 |
| 3904.09 | 0.371997 | 0.37882 |
| 3908.35 | 0.374743 | 0.36978 |
| 3912.6  | 0.367864 | 0.38394 |
| 3916.85 | 0.396286 | 0.3663  |
| 3921.11 | 0.386221 | 0.37239 |
| 3925.36 | 0.416119 | 0.37174 |
| 3929.61 | 0.415399 | 0.38754 |
| 3933.86 | 0.430341 | 0.38882 |
| 3938.12 | 0.411471 | 0.40809 |
| 3942.37 | 0.433616 | 0.38427 |
| 3946.62 | 0.40958  | 0.38784 |
| 3950.88 | 0.423439 | 0.40143 |
| 3955.13 | 0.395194 | 0.37606 |

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| 3959.38 | 0.39959  | 0.35502 |
| 3963.63 | 0.400875 | 0.38196 |
| 3967.89 | 0.39859  | 0.3977  |
| 3972.14 | 0.350431 | 0.37625 |
| 3976.39 | 0.346223 | 0.37167 |
| 3980.65 | 0.365295 | 0.39864 |
| 3984.9  | 0.376336 | 0.40408 |
| 3989.15 | 0.367158 | 0.39365 |
| 3993.4  | 0.369796 | 0.41259 |
| 3997.66 | 0.351163 | 0.40871 |
| 4001.91 | 0.36169  | 0.39904 |
| 4006.16 | 0.37277  | 0.39995 |
| 4010.41 | 0.379384 | 0.39011 |
| 4014.67 | 0.391256 | 0.38105 |
| 4018.92 | 0.412409 | 0.37036 |
| 4023.17 | 0.412373 | 0.37987 |
| 4027.43 | 0.401372 | 0.35456 |
| 4031.68 | 0.406567 | 0.33493 |
| 4035.93 | 0.434969 | 0.32943 |
| 4040.18 | 0.430502 | 0.33333 |
| 4044.44 | 0.418576 | 0.33639 |
| 4048.69 | 0.417885 | 0.33908 |
| 4052.94 | 0.41801  | 0.33661 |
| 4057.2  | 0.412052 | 0.3125  |
| 4061.45 | 0.387332 | 0.33849 |
| 4065.7  | 0.373388 | 0.3619  |
| 4069.95 | 0.358692 | 0.37889 |
| 4074.21 | 0.368003 | 0.3761  |
| 4078.46 | 0.394581 | 0.4029  |
| 4082.71 | 0.420457 | 0.40489 |
| 4086.97 | 0.427502 | 0.40794 |
| 4091.22 | 0.427683 | 0.40612 |
| 4095.47 | 0.433099 | 0.41592 |
| 4099.72 | 0.408631 | 0.41975 |
| 4103.98 | 0.41861  | 0.41995 |
| 4108.23 | 0.393169 | 0.39769 |
| 4112.48 | 0.380458 | 0.3839  |
| 4116.74 | 0.374944 | 0.38848 |
| 4120.99 | 0.38246  | 0.41211 |
| 4125.24 | 0.363599 | 0.40212 |
| 4129.49 | 0.355999 | 0.40456 |
| 4133.75 | 0.353191 | 0.41327 |
| 4138    | 0.365839 | 0.42731 |
| 4142.25 | 0.373945 | 0.40752 |
| 4146.51 | 0.360802 | 0.38609 |
| 4150.76 | 0.361677 | 0.3906  |
| 4155.01 | 0.368374 | 0.40205 |
| 4159.26 | 0.348851 | 0.40509 |
| 4163.52 | 0.351797 | 0.38635 |

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| 4167.77 | 0.36119  | 0.38905 |
| 4172.02 | 0.415846 | 0.38198 |
| 4176.28 | 0.399431 | 0.39482 |
| 4180.53 | 0.414711 | 0.36414 |
| 4184.78 | 0.386716 | 0.36224 |
| 4189.03 | 0.41891  | 0.3614  |
| 4193.29 | 0.385427 | 0.38411 |
| 4197.54 | 0.392826 | 0.4059  |
| 4201.79 | 0.380825 | 0.40445 |
| 4206.04 | 0.388496 | 0.39868 |
| 4210.3  | 0.357837 | 0.42763 |
| 4214.55 | 0.359511 | 0.42882 |
| 4218.8  | 0.354767 | 0.4243  |
| 4223.06 | 0.357863 | 0.40815 |
| 4227.31 | 0.373128 | 0.41179 |
| 4231.56 | 0.390913 | 0.39236 |
| 4235.81 | 0.415187 | 0.40709 |
| 4240.07 | 0.427332 | 0.40727 |
| 4244.32 | 0.41494  | 0.40227 |
| 4248.57 | 0.417529 | 0.39997 |
| 4252.83 | 0.427087 | 0.40624 |
| 4257.08 | 0.417895 | 0.38865 |
| 4261.33 | 0.400009 | 0.37798 |
| 4265.58 | 0.412618 | 0.39709 |
| 4269.84 | 0.414697 | 0.37801 |
| 4274.09 | 0.411035 | 0.38479 |
| 4278.34 | 0.400795 | 0.38411 |
| 4282.6  | 0.377271 | 0.3816  |
| 4286.85 | 0.360097 | 0.38799 |
| 4291.1  | 0.349137 | 0.37869 |
| 4295.35 | 0.358454 | 0.3916  |
| 4299.61 | 0.369538 | 0.38689 |
| 4303.86 | 0.394806 | 0.39572 |
| 4308.11 | 0.431658 | 0.39945 |
| 4312.37 | 0.447287 | 0.42212 |
| 4316.62 | 0.429212 | 0.43647 |
| 4320.87 | 0.427054 | 0.42477 |
| 4325.12 | 0.425392 | 0.41025 |
| 4329.38 | 0.444874 | 0.399   |
| 4333.63 | 0.430849 | 0.37949 |
| 4337.88 | 0.417794 | 0.36167 |
| 4342.14 | 0.420286 | 0.38354 |
| 4346.39 | 0.403958 | 0.36134 |
| 4350.64 | 0.375339 | 0.37249 |
| 4354.89 | 0.37977  | 0.3845  |
| 4359.15 | 0.39661  | 0.39236 |
| 4363.4  | 0.417152 | 0.35831 |
| 4367.65 | 0.447398 | 0.36269 |
| 4371.91 | 0.434681 | 0.37307 |

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| 4376.16 | 0.429248 | 0.37369 |
| 4380.41 | 0.398994 | 0.36948 |
| 4384.66 | 0.404752 | 0.35419 |
| 4388.92 | 0.371172 | 0.36498 |
| 4393.17 | 0.365964 | 0.34643 |
| 4397.42 | 0.345163 | 0.34246 |
| 4401.67 | 0.384896 | 0.35164 |
| 4405.93 | 0.368893 | 0.35796 |
| 4410.18 | 0.381344 | 0.35251 |
| 4414.43 | 0.351711 | 0.36258 |
| 4418.69 | 0.356461 | 0.37806 |
| 4422.94 | 0.33846  | 0.37625 |
| 4427.19 | 0.365437 | 0.3756  |
| 4431.44 | 0.350562 | 0.36746 |
| 4435.7  | 0.37312  | 0.36481 |
| 4439.95 | 0.375867 | 0.34631 |
| 4444.2  | 0.384378 | 0.35019 |
| 4448.46 | 0.374153 | 0.36592 |
| 4452.71 | 0.388354 | 0.38069 |
| 4456.96 | 0.395244 | 0.38815 |
| 4461.21 | 0.406634 | 0.38419 |
| 4465.47 | 0.399502 | 0.38602 |
| 4469.72 | 0.399362 | 0.34443 |
| 4473.97 | 0.394147 | 0.3474  |
| 4478.23 | 0.380162 | 0.33676 |
| 4482.48 | 0.356346 | 0.35845 |
| 4486.73 | 0.363904 | 0.34572 |
| 4490.98 | 0.368891 | 0.37439 |
| 4495.24 | 0.372744 | 0.3636  |
| 4499.49 | 0.381389 | 0.37959 |
| 4503.74 | 0.375496 | 0.35816 |
| 4508    | 0.36356  | 0.36901 |
| 4512.25 | 0.375183 | 0.36791 |
| 4516.5  | 0.368922 | 0.384   |
| 4520.75 | 0.337345 | 0.38109 |
| 4525.01 | 0.348696 | 0.39183 |
| 4529.26 | 0.350199 | 0.38605 |
| 4533.51 | 0.366612 | 0.37412 |
| 4537.77 | 0.353231 | 0.38203 |
| 4542.02 | 0.368197 | 0.37523 |
| 4546.27 | 0.349614 | 0.38316 |
| 4550.52 | 0.337801 | 0.36605 |
| 4554.78 | 0.326338 | 0.35179 |
| 4559.03 | 0.342688 | 0.36855 |
| 4563.28 | 0.359356 | 0.37007 |
| 4567.54 | 0.383937 | 0.35139 |
| 4571.79 | 0.380845 | 0.34956 |
| 4576.04 | 0.40114  | 0.35363 |
| 4580.29 | 0.377881 | 0.34679 |

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| 4584.55 | 0.386058 | 0.34399 |
| 4588.8  | 0.378377 | 0.3519  |
| 4593.05 | 0.389177 | 0.35677 |
| 4597.3  | 0.37661  | 0.36348 |
| 4601.56 | 0.396004 | 0.35136 |
| 4605.81 | 0.405911 | 0.35045 |
| 4610.06 | 0.412502 | 0.37425 |
| 4614.32 | 0.383689 | 0.37865 |
| 4618.57 | 0.371616 | 0.37141 |
| 4622.82 | 0.365337 | 0.35993 |
| 4627.07 | 0.358209 | 0.36283 |
| 4631.33 | 0.348676 | 0.35849 |
| 4635.58 | 0.332055 | 0.36787 |
| 4639.83 | 0.348813 | 0.37162 |
| 4644.09 | 0.398843 | 0.36827 |
| 4648.34 | 0.410756 | 0.36485 |
| 4652.59 | 0.436983 | 0.39464 |
| 4656.84 | 0.412392 | 0.38476 |
| 4661.1  | 0.414076 | 0.37389 |
| 4665.35 | 0.396008 | 0.37892 |
| 4669.6  | 0.402204 | 0.38289 |
| 4673.86 | 0.366177 | 0.35923 |
| 4678.11 | 0.358255 | 0.35358 |
| 4682.36 | 0.350932 | 0.3519  |
| 4686.61 | 0.365394 | 0.35835 |
| 4690.87 | 0.35887  | 0.36901 |
| 4695.12 | 0.344302 | 0.36205 |
| 4699.37 | 0.340158 | 0.36619 |
| 4703.63 | 0.339847 | 0.36474 |
| 4707.88 | 0.332543 | 0.37824 |
| 4712.13 | 0.335789 | 0.37089 |
| 4716.38 | 0.352503 | 0.3785  |
| 4720.64 | 0.347608 | 0.37888 |
| 4724.89 | 0.345769 | 0.36487 |
| 4729.14 | 0.35042  | 0.33531 |
| 4733.4  | 0.372576 | 0.33636 |
| 4737.65 | 0.368919 | 0.33693 |
| 4741.9  | 0.380693 | 0.33367 |
| 4746.15 | 0.378325 | 0.34074 |
| 4750.41 | 0.367872 | 0.33364 |
| 4754.66 | 0.377906 | 0.33083 |
| 4758.91 | 0.396166 | 0.35114 |
| 4763.17 | 0.380065 | 0.35012 |
| 4767.42 | 0.369118 | 0.35429 |
| 4771.67 | 0.341849 | 0.35355 |
| 4775.92 | 0.348374 | 0.36917 |
| 4780.18 | 0.364315 | 0.3581  |
| 4784.43 | 0.374809 | 0.37717 |
| 4788.68 | 0.361421 | 0.38831 |

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| 4792.93 | 0.387028 | 0.4015  |
| 4797.19 | 0.397506 | 0.40422 |
| 4801.44 | 0.397513 | 0.39671 |
| 4805.69 | 0.397035 | 0.39701 |
| 4809.95 | 0.390347 | 0.392   |
| 4814.2  | 0.372728 | 0.36607 |
| 4818.45 | 0.341572 | 0.36057 |
| 4822.7  | 0.350897 | 0.3387  |
| 4826.96 | 0.331241 | 0.34628 |
| 4831.21 | 0.343533 | 0.36441 |
| 4835.46 | 0.324292 | 0.3808  |
| 4839.72 | 0.348536 | 0.38531 |
| 4843.97 | 0.366658 | 0.38969 |
| 4848.22 | 0.389838 | 0.39411 |
| 4852.47 | 0.388349 | 0.37156 |
| 4856.73 | 0.377831 | 0.37232 |
| 4860.98 | 0.379474 | 0.39132 |
| 4865.23 | 0.358264 | 0.42669 |
| 4869.49 | 0.368738 | 0.4154  |
| 4873.74 | 0.37928  | 0.43163 |
| 4877.99 | 0.399975 | 0.43307 |
| 4882.24 | 0.400387 | 0.42052 |
| 4886.5  | 0.400078 | 0.38525 |
| 4890.75 | 0.407307 | 0.39181 |
| 4895    | 0.40282  | 0.3743  |
| 4899.26 | 0.384196 | 0.39379 |
| 4903.51 | 0.363126 | 0.37728 |
| 4907.76 | 0.393317 | 0.37831 |
| 4912.01 | 0.379618 | 0.36365 |
| 4916.27 | 0.376113 | 0.37143 |
| 4920.52 | 0.368221 | 0.33133 |
| 4924.77 | 0.374823 | 0.31114 |
| 4929.03 | 0.375053 | 0.31795 |
| 4933.28 | 0.37772  | 0.3092  |
| 4937.53 | 0.366354 | 0.31013 |
| 4941.78 | 0.355634 | 0.30828 |
| 4946.04 | 0.367643 | 0.33625 |
| 4950.29 | 0.356055 | 0.36028 |
| 4954.54 | 0.380013 | 0.3838  |
| 4958.8  | 0.360293 | 0.36822 |
| 4963.05 | 0.381222 | 0.3806  |
| 4967.3  | 0.379849 | 0.38769 |
| 4971.55 | 0.377111 | 0.39241 |
| 4975.81 | 0.380824 | 0.38115 |
| 4980.06 | 0.402209 | 0.38999 |
| 4984.31 | 0.406183 | 0.40575 |
| 4988.56 | 0.413668 | 0.38863 |
| 4992.82 | 0.41189  | 0.37596 |
| 4997.07 | 0.41205  | 0.37158 |



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| 5001.32 | 0.393967 | 0.38282 |
| 5005.58 | 0.369765 | 0.37854 |
| 5009.83 | 0.36731  | 0.39539 |
| 5014.08 | 0.350974 | 0.4008  |
| 5018.33 | 0.358941 | 0.4198  |
| 5022.59 | 0.351307 | 0.43206 |
| 5026.84 | 0.379824 | 0.422   |
| 5031.09 | 0.380397 | 0.4152  |
| 5035.35 | 0.379007 | 0.41399 |
| 5039.6  | 0.377055 | 0.41747 |
| 5043.85 | 0.383742 | 0.38144 |
| 5048.1  | 0.374089 | 0.37801 |
| 5052.36 | 0.369471 | 0.37757 |
| 5056.61 | 0.363393 | 0.37868 |
| 5060.86 | 0.377532 | 0.35054 |
| 5065.12 | 0.366524 | 0.36806 |
| 5069.37 | 0.361135 | 0.37709 |
| 5073.62 | 0.330866 | 0.39778 |
| 5077.87 | 0.34541  | 0.39746 |
| 5082.13 | 0.351724 | 0.40002 |
| 5086.38 | 0.36821  | 0.38051 |
| 5090.63 | 0.375297 | 0.39786 |
| 5094.89 | 0.386619 | 0.37547 |
| 5099.14 | 0.383055 | 0.37077 |
| 5103.39 | 0.373342 | 0.3641  |
| 5107.64 | 0.392329 | 0.38476 |
| 5111.9  | 0.390492 | 0.36576 |
| 5116.15 | 0.402697 | 0.36301 |
| 5120.4  | 0.38002  | 0.35935 |
| 5124.66 | 0.396612 | 0.34458 |
| 5128.91 | 0.391825 | 0.34799 |
| 5133.16 | 0.408465 | 0.36517 |
| 5137.41 | 0.398045 | 0.37642 |
| 5141.67 | 0.403876 | 0.35207 |
| 5145.92 | 0.392248 | 0.36967 |
| 5150.17 | 0.381096 | 0.38144 |
| 5154.43 | 0.378724 | 0.38599 |
| 5158.68 | 0.400159 | 0.38901 |
| 5162.93 | 0.403738 | 0.38517 |
| 5167.18 | 0.410823 | 0.38615 |
| 5171.44 | 0.403452 | 0.3871  |
| 5175.69 | 0.401366 | 0.38274 |
| 5179.94 | 0.388471 | 0.395   |
| 5184.19 | 0.387679 | 0.40614 |
| 5188.45 | 0.387967 | 0.42089 |
| 5192.7  | 0.367631 | 0.37756 |
| 5196.95 | 0.377007 | 0.38414 |
| 5201.21 | 0.38535  | 0.37357 |
| 5205.46 | 0.384921 | 0.39022 |

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| 5209.71 | 0.368669 | 0.36695 |
| 5213.96 | 0.372421 | 0.38085 |
| 5218.22 | 0.383534 | 0.38768 |
| 5222.47 | 0.377834 | 0.38502 |
| 5226.72 | 0.379131 | 0.36442 |
| 5230.98 | 0.396329 | 0.3822  |
| 5235.23 | 0.395581 | 0.37984 |
| 5239.48 | 0.407665 | 0.38596 |
| 5243.73 | 0.424452 | 0.38007 |
| 5247.99 | 0.420912 | 0.38921 |
| 5252.24 | 0.417591 | 0.37973 |
| 5256.49 | 0.400586 | 0.39014 |
| 5260.75 | 0.401021 | 0.39056 |
| 5265    | 0.384586 | 0.40014 |
| 5269.25 | 0.402517 | 0.4083  |
| 5273.5  | 0.397362 | 0.40496 |
| 5277.76 | 0.377057 | 0.4066  |
| 5282.01 | 0.382801 | 0.38786 |
| 5286.26 | 0.375372 | 0.39182 |
| 5290.52 | 0.365541 | 0.39659 |
| 5294.77 | 0.354468 | 0.4192  |
| 5299.02 | 0.393864 | 0.44348 |
| 5303.27 | 0.396778 | 0.43119 |
| 5307.53 | 0.403282 | 0.4055  |
| 5311.78 | 0.397389 | 0.37704 |
| 5316.03 | 0.412688 | 0.40162 |
| 5320.29 | 0.417293 | 0.4043  |
| 5324.54 | 0.411446 | 0.4106  |
| 5328.79 | 0.406049 | 0.4098  |
| 5333.04 | 0.38554  | 0.42016 |
| 5337.3  | 0.397588 | 0.3975  |
| 5341.55 | 0.390993 | 0.41021 |
| 5345.8  | 0.383805 | 0.42499 |
| 5350.06 | 0.381668 | 0.4211  |
| 5354.31 | 0.381883 | 0.3903  |
| 5358.56 | 0.394589 | 0.38755 |
| 5362.81 | 0.404664 | 0.36348 |
| 5367.07 | 0.393345 | 0.37749 |
| 5371.32 | 0.389017 | 0.37976 |
| 5375.57 | 0.403796 | 0.41961 |
| 5379.82 | 0.407122 | 0.40431 |
| 5384.08 | 0.386282 | 0.41444 |
| 5388.33 | 0.406648 | 0.389   |
| 5392.58 | 0.396353 | 0.40302 |
| 5396.84 | 0.385058 | 0.38389 |
| 5401.09 | 0.372564 | 0.39114 |
| 5405.34 | 0.401012 | 0.39437 |
| 5409.59 | 0.39517  | 0.41755 |
| 5413.85 | 0.404276 | 0.41208 |

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| 5418.1  | 0.392239 | 0.41759 |
| 5422.35 | 0.409035 | 0.41773 |
| 5426.61 | 0.372009 | 0.4296  |
| 5430.86 | 0.388662 | 0.3967  |
| 5435.11 | 0.377266 | 0.38218 |
| 5439.36 | 0.40807  | 0.41164 |
| 5443.62 | 0.397156 | 0.39903 |
| 5447.87 | 0.401223 | 0.37514 |
| 5452.12 | 0.401249 | 0.38559 |
| 5456.38 | 0.406448 | 0.41815 |
| 5460.63 | 0.40523  | 0.41988 |
| 5464.88 | 0.438211 | 0.39734 |
| 5469.13 | 0.41289  | 0.39374 |
| 5473.39 | 0.415607 | 0.37914 |
| 5477.64 | 0.374465 | 0.38622 |
| 5481.89 | 0.393147 | 0.39767 |
| 5486.15 | 0.377716 | 0.38469 |
| 5490.4  | 0.395875 | 0.394   |
| 5494.65 | 0.387896 | 0.40652 |
| 5498.9  | 0.3949   | 0.42086 |
| 5503.16 | 0.39614  | 0.41049 |
| 5507.41 | 0.393351 | 0.40598 |
| 5511.66 | 0.398881 | 0.37655 |
| 5515.92 | 0.405309 | 0.36115 |
| 5520.17 | 0.433468 | 0.36231 |
| 5524.42 | 0.408749 | 0.36146 |
| 5528.67 | 0.406276 | 0.38125 |
| 5532.93 | 0.395042 | 0.40982 |
| 5537.18 | 0.418899 | 0.42334 |
| 5541.43 | 0.39253  | 0.39212 |
| 5545.69 | 0.395699 | 0.40146 |
| 5549.94 | 0.419019 | 0.44324 |
| 5554.19 | 0.410774 | 0.45041 |
| 5558.44 | 0.382328 | 0.42757 |
| 5562.7  | 0.37797  | 0.4194  |
| 5566.95 | 0.386935 | 0.42368 |
| 5571.2  | 0.391226 | 0.40851 |
| 5575.45 | 0.36479  | 0.39724 |
| 5579.71 | 0.356037 | 0.40632 |
| 5583.96 | 0.342518 | 0.39843 |
| 5588.21 | 0.380952 | 0.37209 |
| 5592.47 | 0.373359 | 0.36412 |
| 5596.72 | 0.388279 | 0.38094 |
| 5600.97 | 0.367332 | 0.39951 |
| 5605.22 | 0.39299  | 0.40422 |
| 5609.48 | 0.395277 | 0.42574 |
| 5613.73 | 0.390784 | 0.42613 |
| 5617.98 | 0.379924 | 0.40497 |
| 5622.24 | 0.395405 | 0.41025 |

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| 5626.49 | 0.406459 | 0.42201 |
| 5630.74 | 0.391862 | 0.42447 |
| 5634.99 | 0.396622 | 0.40566 |
| 5639.25 | 0.399068 | 0.41216 |
| 5643.5  | 0.399895 | 0.39936 |
| 5647.75 | 0.389997 | 0.43512 |
| 5652.01 | 0.411614 | 0.41556 |
| 5656.26 | 0.395422 | 0.40541 |
| 5660.51 | 0.409141 | 0.37815 |
| 5664.76 | 0.40997  | 0.41558 |
| 5669.02 | 0.43323  | 0.41039 |
| 5673.27 | 0.424907 | 0.41793 |
| 5677.52 | 0.43035  | 0.40033 |
| 5681.78 | 0.415195 | 0.42828 |
| 5686.03 | 0.403961 | 0.39743 |
| 5690.28 | 0.395712 | 0.39725 |
| 5694.53 | 0.400405 | 0.39212 |
| 5698.79 | 0.382679 | 0.39478 |
| 5703.04 | 0.398093 | 0.37012 |
| 5707.29 | 0.404312 | 0.36329 |
| 5711.55 | 0.40529  | 0.37765 |
| 5715.8  | 0.396573 | 0.36405 |
| 5720.05 | 0.410227 | 0.35874 |
| 5724.3  | 0.39741  | 0.36275 |
| 5728.56 | 0.385684 | 0.36982 |
| 5732.81 | 0.38736  | 0.38716 |
| 5737.06 | 0.359258 | 0.41464 |
| 5741.32 | 0.345061 | 0.42143 |
| 5745.57 | 0.352818 | 0.42579 |
| 5749.82 | 0.373392 | 0.42051 |
| 5754.07 | 0.392598 | 0.41647 |
| 5758.33 | 0.404996 | 0.41861 |
| 5762.58 | 0.422206 | 0.42057 |
| 5766.83 | 0.438288 | 0.41163 |
| 5771.08 | 0.409574 | 0.41306 |
| 5775.34 | 0.40085  | 0.41403 |
| 5779.59 | 0.40595  | 0.42444 |
| 5783.84 | 0.427397 | 0.38919 |
| 5788.1  | 0.39967  | 0.41659 |
| 5792.35 | 0.4238   | 0.3927  |
| 5796.6  | 0.409066 | 0.42774 |
| 5800.85 | 0.422869 | 0.40314 |
| 5805.11 | 0.426568 | 0.43459 |
| 5809.36 | 0.436852 | 0.41257 |
| 5813.61 | 0.444572 | 0.42314 |
| 5817.87 | 0.450261 | 0.39127 |
| 5822.12 | 0.415101 | 0.39615 |
| 5826.37 | 0.402857 | 0.37817 |
| 5830.62 | 0.382606 | 0.38543 |

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| 5834.88 | 0.385003 | 0.37933 |
| 5839.13 | 0.374195 | 0.38367 |
| 5843.38 | 0.382872 | 0.37435 |
| 5847.64 | 0.400448 | 0.37452 |
| 5851.89 | 0.416113 | 0.38256 |
| 5856.14 | 0.393383 | 0.39397 |
| 5860.39 | 0.378723 | 0.41266 |
| 5864.65 | 0.354827 | 0.44235 |
| 5868.9  | 0.345028 | 0.43623 |
| 5873.15 | 0.360367 | 0.419   |
| 5877.41 | 0.363049 | 0.39454 |
| 5881.66 | 0.382151 | 0.38602 |
| 5885.91 | 0.399465 | 0.38656 |
| 5890.16 | 0.426338 | 0.40341 |
| 5894.42 | 0.406394 | 0.37171 |
| 5898.67 | 0.432031 | 0.3632  |
| 5902.92 | 0.431132 | 0.35027 |
| 5907.18 | 0.431106 | 0.34943 |
| 5911.43 | 0.415582 | 0.34548 |
| 5915.68 | 0.416558 | 0.37106 |
| 5919.93 | 0.401309 | 0.37323 |
| 5924.19 | 0.392579 | 0.39558 |
| 5928.44 | 0.38443  | 0.41537 |
| 5932.69 | 0.390264 | 0.40856 |
| 5936.95 | 0.392009 | 0.41519 |
| 5941.2  | 0.392729 | 0.41386 |
| 5945.45 | 0.386852 | 0.39874 |
| 5949.7  | 0.389332 | 0.38331 |
| 5953.96 | 0.387554 | 0.39304 |
| 5958.21 | 0.363874 | 0.37985 |
| 5962.46 | 0.36138  | 0.35018 |
| 5966.71 | 0.361171 | 0.35499 |
| 5970.97 | 0.400372 | 0.36072 |
| 5975.22 | 0.388135 | 0.37778 |
| 5979.47 | 0.405183 | 0.37759 |
| 5983.73 | 0.40153  | 0.39295 |
| 5987.98 | 0.421773 | 0.38013 |
| 5992.23 | 0.421234 | 0.38171 |
| 5996.48 | 0.41885  | 0.38011 |
| 6000.74 | 0.412704 | 0.36752 |
| 6004.99 | 0.405751 | 0.34951 |
| 6009.24 | 0.412199 | 0.35683 |
| 6013.5  | 0.392175 | 0.37272 |
| 6017.75 | 0.398618 | 0.38644 |
| 6022    | 0.425434 | 0.39561 |
| 6026.25 | 0.437667 | 0.39939 |
| 6030.51 | 0.421816 | 0.39825 |
| 6034.76 | 0.409322 | 0.4198  |
| 6039.01 | 0.40932  | 0.41266 |

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| 6043.27 | 0.417586 | 0.41546 |
| 6047.52 | 0.389201 | 0.39102 |
| 6051.77 | 0.386549 | 0.37995 |
| 6056.02 | 0.40216  | 0.35043 |
| 6060.28 | 0.401541 | 0.33112 |
| 6064.53 | 0.433104 | 0.32893 |
| 6068.78 | 0.440342 | 0.34566 |
| 6073.04 | 0.42654  | 0.35159 |
| 6077.29 | 0.415309 | 0.36346 |
| 6081.54 | 0.436659 | 0.37851 |
| 6085.79 | 0.394314 | 0.35602 |
| 6090.05 | 0.372497 | 0.36113 |
| 6094.3  | 0.373704 | 0.37575 |
| 6098.55 | 0.384271 | 0.37642 |
| 6102.81 | 0.364412 | 0.39898 |
| 6107.06 | 0.403633 | 0.39846 |
| 6111.31 | 0.425056 | 0.40523 |
| 6115.56 | 0.407978 | 0.40495 |
| 6119.82 | 0.417914 | 0.40386 |
| 6124.07 | 0.400293 | 0.39152 |
| 6128.32 | 0.405784 | 0.3941  |
| 6132.58 | 0.392022 | 0.40333 |
| 6136.83 | 0.40178  | 0.43131 |
| 6141.08 | 0.383932 | 0.42506 |
| 6145.33 | 0.38201  | 0.39929 |
| 6149.59 | 0.392817 | 0.39097 |
| 6153.84 | 0.393938 | 0.38691 |
| 6158.09 | 0.370454 | 0.39046 |
| 6162.34 | 0.372492 | 0.38375 |
| 6166.6  | 0.365921 | 0.37945 |
| 6170.85 | 0.382914 | 0.39002 |
| 6175.1  | 0.395537 | 0.40146 |
| 6179.36 | 0.425359 | 0.42214 |
| 6183.61 | 0.429271 | 0.40647 |
| 6187.86 | 0.423987 | 0.39707 |
| 6192.11 | 0.416811 | 0.37396 |
| 6196.37 | 0.408539 | 0.35041 |
| 6200.62 | 0.414551 | 0.33451 |
| 6204.87 | 0.395117 | 0.33334 |
| 6209.13 | 0.399147 | 0.36418 |
| 6213.38 | 0.410142 | 0.30966 |
| 6217.63 | 0.364498 | 0.36382 |
| 6221.88 | 0.313823 | 0.4153  |
| 6226.14 | 0.315838 | 0.51093 |
| 6230.39 | 0.309131 | 0.43083 |
| 6234.64 | 0.329878 | 0.40832 |
| 6238.9  | 0.320582 | 0.41402 |
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| 6247.4  | 0.334555 | 0.41636 |

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| 6251.65 | 0.362348 | 0.40765 |
| 6255.91 | 0.37915  | 0.41423 |
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| 6264.41 | 0.399417 | 0.39892 |
| 6268.67 | 0.372906 | 0.40801 |
| 6272.92 | 0.391041 | 0.39774 |
| 6277.17 | 0.402714 | 0.39089 |
| 6281.42 | 0.409569 | 0.36788 |
| 6285.68 | 0.410587 | 0.37976 |
| 6289.93 | 0.422253 | 0.35786 |
| 6294.18 | 0.424895 | 0.34582 |
| 6298.44 | 0.407722 | 0.35695 |
| 6302.69 | 0.393526 | 0.36203 |
| 6306.94 | 0.385888 | 0.37569 |
| 6311.19 | 0.386692 | 0.38686 |
| 6315.45 | 0.368489 | 0.40479 |
| 6319.7  | 0.356203 | 0.432   |
| 6323.95 | 0.351304 | 0.44362 |
| 6328.21 | 0.349052 | 0.43924 |
| 6332.46 | 0.372044 | 0.42801 |
| 6336.71 | 0.367765 | 0.42054 |
| 6340.96 | 0.396301 | 0.40898 |
| 6345.22 | 0.384227 | 0.39518 |
| 6349.47 | 0.409863 | 0.39813 |
| 6353.72 | 0.408353 | 0.40015 |
| 6357.97 | 0.413878 | 0.39477 |
| 6362.23 | 0.384995 | 0.37504 |
| 6366.48 | 0.408126 | 0.34064 |
| 6370.73 | 0.392604 | 0.33455 |
| 6374.99 | 0.389608 | 0.33784 |
| 6379.24 | 0.378184 | 0.34576 |
| 6383.49 | 0.390069 | 0.33887 |
| 6387.74 | 0.375614 | 0.35975 |
| 6392    | 0.374396 | 0.38211 |
| 6396.25 | 0.376834 | 0.38669 |
| 6400.5  | 0.3947   | 0.3841  |
| 6404.76 | 0.379254 | 0.37311 |
| 6409.01 | 0.390762 | 0.37887 |
| 6413.26 | 0.374501 | 0.37042 |
| 6417.51 | 0.387827 | 0.36601 |
| 6421.77 | 0.389921 | 0.35699 |
| 6426.02 | 0.414178 | 0.37111 |
| 6430.27 | 0.409976 | 0.38652 |
| 6434.53 | 0.402561 | 0.39464 |
| 6438.78 | 0.394541 | 0.38981 |
| 6443.03 | 0.372103 | 0.3942  |
| 6447.28 | 0.388252 | 0.42409 |
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| 6460.04 | 0.383621 | 0.42139 |
| 6464.3  | 0.401843 | 0.44424 |
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| 6472.8  | 0.384769 | 0.42344 |
| 6477.05 | 0.394389 | 0.43094 |
| 6481.31 | 0.414066 | 0.39522 |
| 6485.56 | 0.413878 | 0.3798  |
| 6489.81 | 0.396457 | 0.3852  |
| 6494.07 | 0.391991 | 0.39839 |
| 6498.32 | 0.421202 | 0.39579 |
| 6502.57 | 0.392598 | 0.41256 |
| 6506.82 | 0.37671  | 0.42322 |
| 6511.08 | 0.38075  | 0.4125  |
| 6515.33 | 0.415355 | 0.4162  |
| 6519.58 | 0.409951 | 0.40662 |
| 6523.84 | 0.395359 | 0.39417 |
| 6528.09 | 0.395215 | 0.38177 |
| 6532.34 | 0.386755 | 0.39488 |
| 6536.59 | 0.367029 | 0.37274 |
| 6540.85 | 0.343982 | 0.3873  |
| 6545.1  | 0.349305 | 0.36504 |
| 6549.35 | 0.344861 | 0.40953 |
| 6553.6  | 0.381054 | 0.36964 |
| 6557.86 | 0.378181 | 0.35681 |
| 6562.11 | 0.421492 | 0.32998 |
| 6566.36 | 0.432554 | 0.34897 |
| 6570.62 | 0.447499 | 0.34505 |
| 6574.87 | 0.407687 | 0.34381 |
| 6579.12 | 0.421995 | 0.34687 |
| 6583.37 | 0.398628 | 0.34597 |
| 6587.63 | 0.394618 | 0.36846 |
| 6591.88 | 0.380047 | 0.34563 |
| 6596.13 | 0.383318 | 0.38297 |
| 6600.39 | 0.36506  | 0.37146 |
| 6604.64 | 0.369669 | 0.39001 |
| 6608.89 | 0.376376 | 0.37096 |
| 6613.14 | 0.379733 | 0.38981 |
| 6617.4  | 0.374376 | 0.38146 |
| 6621.65 | 0.37342  | 0.39813 |
| 6625.9  | 0.367311 | 0.39809 |
| 6630.16 | 0.382795 | 0.40925 |
| 6634.41 | 0.387814 | 0.43522 |
| 6638.66 | 0.411966 | 0.43544 |
| 6642.91 | 0.417793 | 0.43918 |
| 6647.17 | 0.419661 | 0.45121 |
| 6651.42 | 0.404521 | 0.47624 |
| 6655.67 | 0.391401 | 0.48224 |
| 6659.93 | 0.39049  | 0.44311 |
| 6664.18 | 0.404022 | 0.42968 |



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| 6668.43 | 0.411778 | 0.4245  |
| 6672.68 | 0.397831 | 0.41835 |
| 6676.94 | 0.41409  | 0.39937 |
| 6681.19 | 0.423401 | 0.40205 |
| 6685.44 | 0.4243   | 0.39766 |
| 6689.7  | 0.405967 | 0.41056 |
| 6693.95 | 0.417597 | 0.4075  |
| 6698.2  | 0.438443 | 0.41243 |
| 6702.45 | 0.421095 | 0.42288 |
| 6706.71 | 0.392765 | 0.41081 |
| 6710.96 | 0.390253 | 0.39044 |
| 6715.21 | 0.415847 | 0.37892 |
| 6719.47 | 0.422306 | 0.39163 |
| 6723.72 | 0.421787 | 0.4068  |
| 6727.97 | 0.437321 | 0.43052 |
| 6732.22 | 0.443864 | 0.44238 |
| 6736.48 | 0.45071  | 0.457   |
| 6740.73 | 0.419427 | 0.44452 |
| 6744.98 | 0.424916 | 0.44625 |
| 6749.23 | 0.438418 | 0.43235 |
| 6753.49 | 0.467761 | 0.40902 |
| 6757.74 | 0.461906 | 0.40154 |
| 6761.99 | 0.472343 | 0.41287 |
| 6766.25 | 0.454433 | 0.40432 |
| 6770.5  | 0.436108 | 0.3833  |
| 6774.75 | 0.433632 | 0.35656 |
| 6779    | 0.419053 | 0.3566  |
| 6783.26 | 0.388934 | 0.36578 |
| 6787.51 | 0.375135 | 0.37401 |
| 6791.76 | 0.371357 | 0.383   |
| 6796.02 | 0.36231  | 0.38046 |
| 6800.27 | 0.391325 | 0.40893 |
| 6804.52 | 0.40975  | 0.40112 |
| 6808.77 | 0.412629 | 0.38918 |
| 6813.03 | 0.440878 | 0.37387 |
| 6817.28 | 0.457679 | 0.41182 |
| 6821.53 | 0.449744 | 0.41321 |
| 6825.79 | 0.432068 | 0.42058 |
| 6830.04 | 0.424326 | 0.44364 |
| 6834.29 | 0.428473 | 0.45059 |
| 6838.54 | 0.422833 | 0.44488 |
| 6842.8  | 0.419191 | 0.43859 |
| 6847.05 | 0.40265  | 0.39879 |
| 6851.3  | 0.397837 | 0.38289 |
| 6855.56 | 0.38241  | 0.34765 |
| 6859.81 | 0.375922 | 0.34368 |
| 6864.06 | 0.381277 | 0.32904 |
| 6868.31 | 0.382969 | 0.35293 |
| 6872.57 | 0.397091 | 0.35005 |

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| 6876.82 | 0.397602 | 0.37999 |
| 6881.07 | 0.426405 | 0.39079 |
| 6885.33 | 0.426546 | 0.37725 |
| 6889.58 | 0.426721 | 0.34559 |
| 6893.83 | 0.409868 | 0.36793 |
| 6898.08 | 0.401235 | 0.3689  |
| 6902.34 | 0.366795 | 0.37815 |
| 6906.59 | 0.354724 | 0.37137 |
| 6910.84 | 0.369595 | 0.37093 |
| 6915.1  | 0.370068 | 0.36722 |
| 6919.35 | 0.387405 | 0.35141 |
| 6923.6  | 0.396245 | 0.34591 |
| 6927.85 | 0.402214 | 0.3457  |
| 6932.11 | 0.375486 | 0.35919 |
| 6936.36 | 0.381936 | 0.35786 |
| 6940.61 | 0.379544 | 0.35166 |
| 6944.86 | 0.369814 | 0.34477 |
| 6949.12 | 0.379255 | 0.34068 |
| 6953.37 | 0.390242 | 0.3731  |
| 6957.62 | 0.384446 | 0.39488 |
| 6961.88 | 0.39529  | 0.407   |
| 6966.13 | 0.422443 | 0.42033 |
| 6970.38 | 0.443349 | 0.42097 |
| 6974.63 | 0.434438 | 0.39835 |
| 6978.89 | 0.450322 | 0.38652 |
| 6983.14 | 0.411636 | 0.37119 |
| 6987.39 | 0.3966   | 0.36347 |
| 6991.65 | 0.385948 | 0.34771 |
| 6995.9  | 0.369744 | 0.35339 |
| 7000.15 | 0.363894 | 0.35801 |
| 7004.4  | 0.365372 | 0.38509 |
| 7008.66 | 0.371919 | 0.37441 |
| 7012.91 | 0.368474 | 0.39596 |
| 7017.16 | 0.407973 | 0.40322 |
| 7021.42 | 0.422181 | 0.41437 |
| 7025.67 | 0.426956 | 0.39572 |
| 7029.92 | 0.417816 | 0.39588 |
| 7034.17 | 0.400307 | 0.39642 |
| 7038.43 | 0.384991 | 0.41756 |
| 7042.68 | 0.367912 | 0.40935 |
| 7046.93 | 0.374395 | 0.41367 |
| 7051.19 | 0.375691 | 0.40544 |
| 7055.44 | 0.377049 | 0.40346 |
| 7059.69 | 0.353044 | 0.40139 |
| 7063.94 | 0.337103 | 0.41404 |
| 7068.2  | 0.350164 | 0.43782 |
| 7072.45 | 0.317645 | 0.42494 |
| 7076.7  | 0.326655 | 0.43723 |
| 7080.96 | 0.334111 | 0.41859 |

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| 7085.21 | 0.369892 | 0.43514 |
| 7089.46 | 0.363357 | 0.41113 |
| 7093.71 | 0.390704 | 0.41106 |
| 7097.97 | 0.400006 | 0.38405 |
| 7102.22 | 0.401677 | 0.35386 |
| 7106.47 | 0.395009 | 0.35222 |
| 7110.73 | 0.395556 | 0.35603 |
| 7114.98 | 0.389874 | 0.36031 |
| 7119.23 | 0.365625 | 0.38183 |
| 7123.48 | 0.355327 | 0.41122 |
| 7127.74 | 0.348568 | 0.43208 |
| 7131.99 | 0.351863 | 0.41365 |
| 7136.24 | 0.374529 | 0.4159  |
| 7140.49 | 0.376682 | 0.3883  |
| 7144.75 | 0.380235 | 0.38577 |
| 7149    | 0.381835 | 0.36976 |
| 7153.25 | 0.397588 | 0.37084 |
| 7157.51 | 0.412044 | 0.36787 |
| 7161.76 | 0.39833  | 0.36793 |
| 7166.01 | 0.405756 | 0.35673 |
| 7170.26 | 0.401429 | 0.36476 |
| 7174.52 | 0.407069 | 0.37219 |
| 7178.77 | 0.409692 | 0.37848 |
| 7183.02 | 0.409906 | 0.39073 |
| 7187.28 | 0.395321 | 0.38893 |
| 7191.53 | 0.389774 | 0.4024  |
| 7195.78 | 0.391116 | 0.38577 |
| 7200.03 | 0.375802 | 0.38719 |
| 7204.29 | 0.385225 | 0.36599 |
| 7208.54 | 0.388635 | 0.38721 |
| 7212.79 | 0.369047 | 0.39103 |
| 7217.05 | 0.369939 | 0.40682 |
| 7221.3  | 0.359943 | 0.39639 |
| 7225.55 | 0.344763 | 0.39853 |
| 7229.8  | 0.326135 | 0.41304 |
| 7234.06 | 0.347003 | 0.3907  |
| 7238.31 | 0.343426 | 0.41832 |
| 7242.56 | 0.355562 | 0.40222 |
| 7246.82 | 0.367406 | 0.41696 |
| 7251.07 | 0.411767 | 0.41199 |
| 7255.32 | 0.391734 | 0.42513 |
| 7259.57 | 0.395956 | 0.40842 |
| 7263.83 | 0.395601 | 0.4306  |
| 7268.08 | 0.404146 | 0.42353 |
| 7272.33 | 0.416064 | 0.39594 |
| 7276.59 | 0.459696 | 0.37695 |
| 7280.84 | 0.447512 | 0.3772  |
| 7285.09 | 0.447609 | 0.36427 |
| 7289.34 | 0.451891 | 0.36833 |

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| 7293.6  | 0.465083 | 0.36848 |
| 7297.85 | 0.399524 | 0.39749 |
| 7302.1  | 0.386755 | 0.4073  |
| 7306.36 | 0.373862 | 0.40791 |
| 7310.61 | 0.392195 | 0.3841  |
| 7314.86 | 0.363837 | 0.37453 |
| 7319.11 | 0.375582 | 0.3627  |
| 7323.37 | 0.357805 | 0.36834 |
| 7327.62 | 0.370402 | 0.37454 |
| 7331.87 | 0.362789 | 0.39929 |
| 7336.12 | 0.385269 | 0.39011 |
| 7340.38 | 0.37899  | 0.3843  |
| 7344.63 | 0.381896 | 0.37792 |
| 7348.88 | 0.383724 | 0.36202 |
| 7353.14 | 0.386838 | 0.34171 |
| 7357.39 | 0.389347 | 0.35105 |
| 7361.64 | 0.410828 | 0.34784 |
| 7365.89 | 0.408006 | 0.35871 |
| 7370.15 | 0.396827 | 0.36279 |
| 7374.4  | 0.399335 | 0.36701 |
| 7378.65 | 0.409771 | 0.37837 |
| 7382.91 | 0.383714 | 0.38046 |
| 7387.16 | 0.379129 | 0.37789 |
| 7391.41 | 0.371865 | 0.3737  |
| 7395.66 | 0.365339 | 0.37429 |
| 7399.92 | 0.35466  | 0.382   |
| 7404.17 | 0.340096 | 0.39277 |
| 7408.42 | 0.33486  | 0.37578 |
| 7412.68 | 0.339957 | 0.38349 |
| 7416.93 | 0.370847 | 0.39369 |
| 7421.18 | 0.364087 | 0.41482 |
| 7425.43 | 0.375928 | 0.41228 |
| 7429.69 | 0.369759 | 0.4195  |
| 7433.94 | 0.393052 | 0.38782 |
| 7438.19 | 0.398751 | 0.38095 |
| 7442.45 | 0.39442  | 0.38624 |
| 7446.7  | 0.396142 | 0.39463 |
| 7450.95 | 0.428074 | 0.38224 |
| 7455.2  | 0.421488 | 0.37412 |
| 7459.46 | 0.408169 | 0.3687  |
| 7463.71 | 0.374235 | 0.35614 |
| 7467.96 | 0.392829 | 0.36194 |
| 7472.22 | 0.37498  | 0.35981 |
| 7476.47 | 0.380103 | 0.37555 |
| 7480.72 | 0.377488 | 0.36215 |
| 7484.97 | 0.405288 | 0.38638 |
| 7489.23 | 0.396926 | 0.39717 |
| 7493.48 | 0.40408  | 0.38039 |
| 7497.73 | 0.400203 | 0.36667 |

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| 7501.99 | 0.399902 | 0.36282 |
| 7506.24 | 0.397132 | 0.35689 |
| 7510.49 | 0.388138 | 0.34752 |
| 7514.74 | 0.361668 | 0.36767 |
| 7519    | 0.383453 | 0.37415 |
| 7523.25 | 0.382211 | 0.38798 |
| 7527.5  | 0.398767 | 0.39534 |
| 7531.75 | 0.385551 | 0.40514 |
| 7536.01 | 0.386314 | 0.40422 |
| 7540.26 | 0.368988 | 0.42881 |
| 7544.51 | 0.372881 | 0.45637 |
| 7548.77 | 0.383346 | 0.44214 |
| 7553.02 | 0.3778   | 0.43654 |
| 7557.27 | 0.385861 | 0.42231 |
| 7561.52 | 0.396485 | 0.39947 |
| 7565.78 | 0.401619 | 0.39052 |
| 7570.03 | 0.400094 | 0.36526 |
| 7574.28 | 0.412598 | 0.37763 |
| 7578.54 | 0.410194 | 0.38873 |
| 7582.79 | 0.371822 | 0.40514 |
| 7587.04 | 0.349915 | 0.40451 |
| 7591.29 | 0.347772 | 0.42586 |
| 7595.55 | 0.335959 | 0.40643 |
| 7599.8  | 0.334054 | 0.41867 |
| 7604.05 | 0.341942 | 0.3987  |
| 7608.31 | 0.362399 | 0.38833 |
| 7612.56 | 0.359778 | 0.38777 |
| 7616.81 | 0.374272 | 0.38853 |
| 7621.06 | 0.366367 | 0.40281 |
| 7625.32 | 0.375134 | 0.40115 |
| 7629.57 | 0.354959 | 0.39744 |
| 7633.82 | 0.373688 | 0.3942  |
| 7638.08 | 0.388501 | 0.37955 |
| 7642.33 | 0.393126 | 0.3741  |
| 7646.58 | 0.372238 | 0.3542  |
| 7650.83 | 0.347926 | 0.34887 |
| 7655.09 | 0.352082 | 0.36005 |
| 7659.34 | 0.360634 | 0.35915 |
| 7663.59 | 0.36417  | 0.38053 |
| 7667.85 | 0.359152 | 0.38334 |
| 7672.1  | 0.367087 | 0.38004 |
| 7676.35 | 0.38007  | 0.36752 |
| 7680.6  | 0.384873 | 0.38716 |
| 7684.86 | 0.377727 | 0.37018 |
| 7689.11 | 0.370616 | 0.3781  |
| 7693.36 | 0.37029  | 0.38121 |
| 7697.62 | 0.37006  | 0.40637 |
| 7701.87 | 0.365643 | 0.40204 |
| 7706.12 | 0.361784 | 0.39451 |

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| 7710.37 | 0.371524 | 0.36903 |
| 7714.63 | 0.356725 | 0.36002 |
| 7718.88 | 0.34175  | 0.36628 |
| 7723.13 | 0.358703 | 0.37119 |
| 7727.38 | 0.368272 | 0.37538 |
| 7731.64 | 0.376353 | 0.387   |
| 7735.89 | 0.379071 | 0.41088 |
| 7740.14 | 0.392278 | 0.40868 |
| 7744.4  | 0.369247 | 0.40098 |
| 7748.65 | 0.383443 | 0.40723 |
| 7752.9  | 0.376326 | 0.3967  |
| 7757.15 | 0.369914 | 0.40289 |
| 7761.41 | 0.369985 | 0.38895 |
| 7765.66 | 0.367034 | 0.40027 |
| 7769.91 | 0.370339 | 0.39142 |
| 7774.17 | 0.368853 | 0.42801 |
| 7778.42 | 0.382083 | 0.40922 |
| 7782.67 | 0.358779 | 0.42233 |
| 7786.92 | 0.390188 | 0.42338 |
| 7791.18 | 0.379241 | 0.4314  |
| 7795.43 | 0.376087 | 0.42317 |
| 7799.68 | 0.374066 | 0.42677 |
| 7803.94 | 0.394134 | 0.41737 |
| 7808.19 | 0.378489 | 0.40071 |
| 7812.44 | 0.38555  | 0.40736 |
| 7816.69 | 0.399338 | 0.39373 |
| 7820.95 | 0.41783  | 0.40303 |
| 7825.2  | 0.43242  | 0.40416 |
| 7829.45 | 0.427858 | 0.40391 |
| 7833.71 | 0.404363 | 0.39581 |
| 7837.96 | 0.393071 | 0.41552 |
| 7842.21 | 0.394017 | 0.45164 |
| 7846.46 | 0.394615 | 0.42579 |
| 7850.72 | 0.403155 | 0.41648 |
| 7854.97 | 0.399557 | 0.41366 |
| 7859.22 | 0.407183 | 0.41721 |
| 7863.48 | 0.404078 | 0.38879 |
| 7867.73 | 0.389951 | 0.39395 |
| 7871.98 | 0.391321 | 0.41739 |
| 7876.23 | 0.396518 | 0.41135 |
| 7880.49 | 0.395196 | 0.38651 |
| 7884.74 | 0.385642 | 0.40076 |
| 7888.99 | 0.408833 | 0.41333 |
| 7893.25 | 0.396593 | 0.39282 |
| 7897.5  | 0.388744 | 0.37963 |
| 7901.75 | 0.376562 | 0.39611 |
| 7906    | 0.381121 | 0.37623 |
| 7910.26 | 0.379279 | 0.36516 |
| 7914.51 | 0.388224 | 0.36956 |

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| 7918.76 | 0.409072 | 0.38037 |
| 7923.01 | 0.419133 | 0.36778 |
| 7927.27 | 0.412262 | 0.37225 |
| 7931.52 | 0.413632 | 0.36526 |
| 7935.77 | 0.424357 | 0.38656 |
| 7940.03 | 0.408981 | 0.41251 |
| 7944.28 | 0.383106 | 0.4237  |
| 7948.53 | 0.371137 | 0.42353 |
| 7952.78 | 0.398313 | 0.437   |
| 7957.04 | 0.394166 | 0.41417 |
| 7961.29 | 0.397571 | 0.39315 |
| 7965.54 | 0.393568 | 0.39663 |
| 7969.8  | 0.415018 | 0.40213 |
| 7974.05 | 0.408843 | 0.39931 |
| 7978.3  | 0.416343 | 0.40327 |
| 7982.55 | 0.418014 | 0.39868 |
| 7986.81 | 0.415144 | 0.37219 |
| 7991.06 | 0.397144 | 0.36162 |
| 7995.31 | 0.397518 | 0.3482  |
| 7999.57 | 0.390992 | 0.35278 |
| 8003.82 | 0.398318 | 0.35451 |
| 8008.07 | 0.383091 | 0.35489 |
| 8012.32 | 0.401339 | 0.34874 |
| 8016.58 | 0.382001 | 0.37075 |
| 8020.83 | 0.372813 | 0.36467 |
| 8025.08 | 0.381346 | 0.34797 |
| 8029.34 | 0.40505  | 0.34827 |
| 8033.59 | 0.397343 | 0.34594 |
| 8037.84 | 0.392242 | 0.35338 |
| 8042.09 | 0.396628 | 0.3391  |
| 8046.35 | 0.369907 | 0.34679 |
| 8050.6  | 0.355924 | 0.35015 |
| 8054.85 | 0.374515 | 0.36309 |
| 8059.11 | 0.372536 | 0.37645 |
| 8063.36 | 0.37408  | 0.38504 |
| 8067.61 | 0.382798 | 0.40487 |
| 8071.86 | 0.385792 | 0.39814 |
| 8076.12 | 0.404277 | 0.39812 |
| 8080.37 | 0.409576 | 0.38157 |
| 8084.62 | 0.405113 | 0.39694 |
| 8088.88 | 0.402683 | 0.38941 |
| 8093.13 | 0.40599  | 0.39661 |
| 8097.38 | 0.4162   | 0.39661 |
| 8101.63 | 0.388827 | 0.39532 |
| 8105.89 | 0.382125 | 0.39557 |
| 8110.14 | 0.401237 | 0.41167 |
| 8114.39 | 0.389897 | 0.42641 |
| 8118.64 | 0.381015 | 0.4133  |
| 8122.9  | 0.387601 | 0.43042 |

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| 8127.15 | 0.399965 | 0.43508 |
| 8131.4  | 0.391182 | 0.40689 |
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| 8139.91 | 0.376286 | 0.42845 |
| 8144.16 | 0.361684 | 0.42719 |
| 8148.41 | 0.35489  | 0.40345 |
| 8152.67 | 0.364533 | 0.41183 |
| 8156.92 | 0.354493 | 0.38706 |
| 8161.17 | 0.358417 | 0.37688 |
| 8165.43 | 0.365249 | 0.38376 |
| 8169.68 | 0.369012 | 0.41021 |
| 8173.93 | 0.37141  | 0.42325 |
| 8178.18 | 0.396463 | 0.41574 |
| 8182.44 | 0.393944 | 0.40135 |
| 8186.69 | 0.393873 | 0.40575 |
| 8190.94 | 0.392269 | 0.39579 |
| 8195.2  | 0.400376 | 0.40483 |
| 8199.45 | 0.379669 | 0.40121 |
| 8203.7  | 0.361596 | 0.40772 |
| 8207.95 | 0.369449 | 0.40376 |
| 8212.21 | 0.377717 | 0.41504 |
| 8216.46 | 0.369791 | 0.39906 |
| 8220.71 | 0.379113 | 0.37836 |
| 8224.97 | 0.406817 | 0.37228 |
| 8229.22 | 0.413728 | 0.38226 |
| 8233.47 | 0.413635 | 0.37483 |
| 8237.72 | 0.399664 | 0.3577  |
| 8241.98 | 0.411643 | 0.36678 |
| 8246.23 | 0.40132  | 0.35967 |
| 8250.48 | 0.409448 | 0.34419 |
| 8254.74 | 0.408199 | 0.34598 |
| 8258.99 | 0.383881 | 0.36102 |
| 8263.24 | 0.373585 | 0.35536 |
| 8267.49 | 0.369352 | 0.36883 |
| 8271.75 | 0.366369 | 0.40649 |
| 8276    | 0.354912 | 0.40107 |
| 8280.25 | 0.362318 | 0.39791 |
| 8284.51 | 0.36392  | 0.40198 |
| 8288.76 | 0.366917 | 0.40319 |
| 8293.01 | 0.354724 | 0.38574 |
| 8297.26 | 0.362906 | 0.3994  |
| 8301.52 | 0.359074 | 0.41115 |
| 8305.77 | 0.362393 | 0.40959 |
| 8310.02 | 0.373961 | 0.39308 |
| 8314.27 | 0.384587 | 0.39244 |
| 8318.53 | 0.393107 | 0.37792 |
| 8322.78 | 0.396955 | 0.39863 |
| 8327.03 | 0.417525 | 0.39241 |
| 8331.29 | 0.433681 | 0.40691 |



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| 8335.54 | 0.433369 | 0.4173  |
| 8339.79 | 0.410145 | 0.43567 |
| 8344.04 | 0.39947  | 0.42046 |
| 8348.3  | 0.394998 | 0.39942 |
| 8352.55 | 0.395818 | 0.41085 |
| 8356.8  | 0.374715 | 0.41845 |
| 8361.06 | 0.379814 | 0.41641 |
| 8365.31 | 0.359012 | 0.40542 |
| 8369.56 | 0.365925 | 0.41745 |
| 8373.81 | 0.350842 | 0.40407 |
| 8378.07 | 0.385969 | 0.3952  |
| 8382.32 | 0.368542 | 0.40152 |
| 8386.57 | 0.38298  | 0.41198 |
| 8390.83 | 0.403255 | 0.42519 |
| 8395.08 | 0.439862 | 0.41649 |
| 8399.33 | 0.426074 | 0.39504 |
| 8403.58 | 0.443371 | 0.40964 |
| 8407.84 | 0.429998 | 0.40437 |
| 8412.09 | 0.390164 | 0.4132  |
| 8416.34 | 0.389074 | 0.38314 |
| 8420.6  | 0.370669 | 0.38119 |
| 8424.85 | 0.352638 | 0.36051 |
| 8429.1  | 0.323105 | 0.37947 |
| 8433.35 | 0.345846 | 0.36176 |
| 8437.61 | 0.331481 | 0.36847 |
| 8441.86 | 0.35141  | 0.35225 |
| 8446.11 | 0.379527 | 0.365   |
| 8450.37 | 0.403374 | 0.37473 |
| 8454.62 | 0.374345 | 0.39668 |
| 8458.87 | 0.373553 | 0.39696 |
| 8463.12 | 0.379346 | 0.40733 |
| 8467.38 | 0.379992 | 0.40948 |
| 8471.63 | 0.371892 | 0.38086 |
| 8475.88 | 0.377266 | 0.39011 |
| 8480.14 | 0.378514 | 0.36737 |
| 8484.39 | 0.382545 | 0.36081 |
| 8488.64 | 0.368289 | 0.35704 |
| 8492.89 | 0.365118 | 0.35956 |
| 8497.15 | 0.377743 | 0.35066 |
| 8501.4  | 0.374029 | 0.37687 |
| 8505.65 | 0.398718 | 0.38244 |
| 8509.9  | 0.425549 | 0.38029 |
| 8514.16 | 0.459076 | 0.39201 |
| 8518.41 | 0.418796 | 0.39659 |
| 8522.66 | 0.431101 | 0.391   |
| 8526.92 | 0.428106 | 0.40336 |
| 8531.17 | 0.476338 | 0.4054  |
| 8535.42 | 0.410154 | 0.3936  |
| 8539.67 | 0.397994 | 0.41401 |

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| 8543.93 | 0.390419 | 0.42007 |
| 8548.18 | 0.411255 | 0.41556 |
| 8552.43 | 0.392812 | 0.41097 |
| 8556.69 | 0.376817 | 0.3955  |
| 8560.94 | 0.384686 | 0.40122 |
| 8565.19 | 0.406488 | 0.41191 |
| 8569.44 | 0.413383 | 0.41463 |
| 8573.7  | 0.41228  | 0.40784 |
| 8577.95 | 0.434529 | 0.42365 |
| 8582.2  | 0.423202 | 0.41413 |
| 8586.46 | 0.434277 | 0.42308 |
| 8590.71 | 0.410086 | 0.41928 |
| 8594.96 | 0.397822 | 0.4034  |
| 8599.21 | 0.383821 | 0.39079 |
| 8603.47 | 0.388322 | 0.38958 |
| 8607.72 | 0.358174 | 0.3769  |
| 8611.97 | 0.35919  | 0.36417 |
| 8616.23 | 0.369127 | 0.37809 |
| 8620.48 | 0.368161 | 0.36232 |
| 8624.73 | 0.360592 | 0.37265 |
| 8628.98 | 0.387787 | 0.35787 |
| 8633.24 | 0.396381 | 0.38427 |
| 8637.49 | 0.401303 | 0.39133 |
| 8641.74 | 0.395397 | 0.41302 |
| 8646    | 0.403226 | 0.39129 |
| 8650.25 | 0.398241 | 0.39323 |
| 8654.5  | 0.38265  | 0.38329 |
| 8658.75 | 0.372683 | 0.3798  |
| 8663.01 | 0.372067 | 0.36977 |
| 8667.26 | 0.382331 | 0.36805 |
| 8671.51 | 0.385797 | 0.37937 |
| 8675.77 | 0.402867 | 0.37043 |
| 8680.02 | 0.400077 | 0.37419 |
| 8684.27 | 0.394653 | 0.37204 |
| 8688.52 | 0.367283 | 0.34764 |
| 8692.78 | 0.363496 | 0.334   |
| 8697.03 | 0.377977 | 0.34059 |
| 8701.28 | 0.375706 | 0.34731 |
| 8705.53 | 0.381441 | 0.34724 |
| 8709.79 | 0.391782 | 0.36284 |
| 8714.04 | 0.38957  | 0.36307 |
| 8718.29 | 0.402629 | 0.36364 |
| 8722.55 | 0.416449 | 0.39879 |
| 8726.8  | 0.425983 | 0.38746 |
| 8731.05 | 0.423108 | 0.39604 |
| 8735.3  | 0.411543 | 0.37538 |
| 8739.56 | 0.404141 | 0.38407 |
| 8743.81 | 0.391574 | 0.35361 |
| 8748.06 | 0.401502 | 0.34726 |

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| 8752.32 | 0.400939 | 0.33815 |
| 8756.57 | 0.413694 | 0.37549 |
| 8760.82 | 0.373688 | 0.37526 |
| 8765.07 | 0.378202 | 0.39336 |
| 8769.33 | 0.388153 | 0.3855  |
| 8773.58 | 0.40083  | 0.39297 |
| 8777.83 | 0.389525 | 0.37897 |
| 8782.09 | 0.400696 | 0.38354 |
| 8786.34 | 0.423331 | 0.38294 |
| 8790.59 | 0.419081 | 0.38753 |
| 8794.84 | 0.420405 | 0.40912 |
| 8799.1  | 0.402578 | 0.37886 |
| 8803.35 | 0.384201 | 0.36553 |
| 8807.6  | 0.381191 | 0.35545 |
| 8811.86 | 0.370734 | 0.37966 |
| 8816.11 | 0.347192 | 0.37125 |
| 8820.36 | 0.372787 | 0.3975  |
| 8824.61 | 0.376682 | 0.40487 |
| 8828.87 | 0.354746 | 0.42464 |
| 8833.12 | 0.362506 | 0.42006 |
| 8837.37 | 0.379442 | 0.46227 |
| 8841.63 | 0.39701  | 0.43782 |
| 8845.88 | 0.399115 | 0.41934 |
| 8850.13 | 0.42894  | 0.39288 |
| 8854.38 | 0.42771  | 0.41282 |
| 8858.64 | 0.417513 | 0.42052 |
| 8862.89 | 0.405182 | 0.41851 |
| 8867.14 | 0.399145 | 0.40781 |
| 8871.4  | 0.388051 | 0.39207 |
| 8875.65 | 0.383549 | 0.38496 |
| 8879.9  | 0.387212 | 0.3904  |
| 8884.15 | 0.367454 | 0.37373 |
| 8888.41 | 0.371602 | 0.37452 |
| 8892.66 | 0.385252 | 0.38134 |
| 8896.91 | 0.399923 | 0.39509 |
| 8901.16 | 0.377044 | 0.39498 |
| 8905.42 | 0.380188 | 0.39224 |
| 8909.67 | 0.388694 | 0.38144 |
| 8913.92 | 0.382155 | 0.37992 |
| 8918.18 | 0.379773 | 0.40177 |
| 8922.43 | 0.361281 | 0.39925 |
| 8926.68 | 0.354047 | 0.40958 |
| 8930.93 | 0.36336  | 0.40047 |
| 8935.19 | 0.381108 | 0.39545 |
| 8939.44 | 0.381361 | 0.37498 |
| 8943.69 | 0.382547 | 0.40993 |
| 8947.95 | 0.373365 | 0.3882  |
| 8952.2  | 0.370737 | 0.39028 |
| 8956.45 | 0.386031 | 0.3808  |

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| 8960.7  | 0.389832 | 0.39882 |
| 8964.96 | 0.391983 | 0.39836 |
| 8969.21 | 0.391579 | 0.37386 |
| 8973.46 | 0.397786 | 0.37119 |
| 8977.72 | 0.400662 | 0.36716 |
| 8981.97 | 0.413635 | 0.37546 |
| 8986.22 | 0.406932 | 0.36318 |
| 8990.47 | 0.381156 | 0.39669 |
| 8994.73 | 0.385649 | 0.4104  |
| 8998.98 | 0.390803 | 0.40927 |
| 9003.23 | 0.419464 | 0.39068 |
| 9007.49 | 0.429844 | 0.39711 |
| 9011.74 | 0.434538 | 0.3856  |
| 9015.99 | 0.426701 | 0.37953 |
| 9020.24 | 0.420098 | 0.3909  |
| 9024.5  | 0.410444 | 0.42065 |
| 9028.75 | 0.398351 | 0.4406  |
| 9033    | 0.410367 | 0.44523 |
| 9037.26 | 0.41691  | 0.44982 |
| 9041.51 | 0.421555 | 0.43916 |
| 9045.76 | 0.424105 | 0.39742 |
| 9050.01 | 0.392829 | 0.39892 |
| 9054.27 | 0.385774 | 0.38952 |
| 9058.52 | 0.398626 | 0.40902 |
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| 9118.06 | 0.359513 | 0.40613 |
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| 10866   | 0.425788 | 0.40259 |
| 10870.2 | 0.427978 | 0.38649 |
| 10874.5 | 0.433405 | 0.38718 |
| 10878.7 | 0.406184 | 0.3887  |
| 10883   | 0.409465 | 0.39911 |
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| 10900   | 0.405488 | 0.39893 |
| 10904.2 | 0.399727 | 0.421   |
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| 10917   | 0.408024 | 0.39726 |
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| 10925.5 | 0.406698 | 0.4103  |
| 10929.8 | 0.39581  | 0.42865 |
| 10934   | 0.405363 | 0.42185 |
| 10938.3 | 0.400532 | 0.40804 |
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| 10946.8 | 0.406651 | 0.38682 |
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| 10980.8 | 0.407978 | 0.39403 |
| 10985   | 0.418836 | 0.38514 |
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| 11010.6 | 0.376549 | 0.41763 |
| 11014.8 | 0.397666 | 0.42524 |
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| 11027.6 | 0.429444 | 0.43111 |
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| 11082.9 | 0.422706 | 0.45011 |
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| 11129.6 | 0.43106  | 0.38868 |
| 11133.9 | 0.419117 | 0.43204 |
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| 11214.7 | 0.407995 | 0.39822 |
| 11219   | 0.438822 | 0.40454 |
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| 11257.2 | 0.404792 | 0.36694 |
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| 11287   | 0.426667 | 0.4008  |
| 11291.3 | 0.406287 | 0.39543 |
| 11295.5 | 0.413031 | 0.40317 |
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| 11427.3 | 0.391102 | 0.42648 |
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| 12248.1 | 0.395365 | 0.39923 |
| 12252.4 | 0.397975 | 0.38588 |
| 12256.6 | 0.38978  | 0.38451 |
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| 12354.5 | 0.402932 | 0.40689 |
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| 12397   | 0.423438 | 0.40287 |
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| 12431   | 0.377744 | 0.40752 |
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| 12473.5 | 0.377826 | 0.37999 |
| 12477.8 | 0.382232 | 0.40586 |
| 12482   | 0.381241 | 0.40884 |
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| 12490.6 | 0.389896 | 0.41687 |
| 12494.8 | 0.403384 | 0.3981  |
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| 12507.6 | 0.392572 | 0.44467 |
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| 12516.1 | 0.404136 | 0.46495 |
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| 12537.3 | 0.377479 | 0.41221 |
| 12541.6 | 0.380258 | 0.41122 |
| 12545.8 | 0.384556 | 0.38541 |
| 12550.1 | 0.378678 | 0.41843 |
| 12554.3 | 0.38449  | 0.42842 |
| 12558.6 | 0.390588 | 0.43353 |
| 12562.8 | 0.392932 | 0.41701 |
| 12567.1 | 0.417556 | 0.43174 |
| 12571.4 | 0.441631 | 0.40686 |
| 12575.6 | 0.435522 | 0.41786 |
| 12579.9 | 0.43801  | 0.39609 |
| 12584.1 | 0.43308  | 0.38566 |
| 12588.4 | 0.42939  | 0.38281 |
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| 12596.9 | 0.39675  | 0.39685 |
| 12601.1 | 0.388156 | 0.39839 |
| 12605.4 | 0.371165 | 0.40924 |
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| 12639.4 | 0.445571 | 0.42967 |
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| 12647.9 | 0.395842 | 0.44631 |
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| 12656.4 | 0.397941 | 0.4158  |
| 12660.7 | 0.376452 | 0.40946 |
| 12664.9 | 0.358021 | 0.41546 |
| 12669.2 | 0.35661  | 0.43504 |
| 12673.4 | 0.364641 | 0.42517 |
| 12677.7 | 0.367324 | 0.43178 |
| 12681.9 | 0.382    | 0.43904 |
| 12686.2 | 0.401314 | 0.43913 |
| 12690.4 | 0.427694 | 0.44685 |
| 12694.7 | 0.43783  | 0.44878 |
| 12698.9 | 0.435287 | 0.47007 |
| 12703.2 | 0.423158 | 0.46105 |
| 12707.4 | 0.42393  | 0.44755 |

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| 12711.7 | 0.402457 | 0.45616 |
| 12715.9 | 0.395097 | 0.46128 |
| 12720.2 | 0.399865 | 0.45376 |
| 12724.5 | 0.41735  | 0.43867 |
| 12728.7 | 0.417462 | 0.43946 |
| 12733   | 0.402734 | 0.42923 |
| 12737.2 | 0.398433 | 0.40268 |
| 12741.5 | 0.40122  | 0.4143  |
| 12745.7 | 0.382707 | 0.40051 |
| 12750   | 0.381521 | 0.39953 |
| 12754.2 | 0.392663 | 0.40517 |
| 12758.5 | 0.387472 | 0.42931 |
| 12762.7 | 0.373168 | 0.44103 |
| 12767   | 0.402098 | 0.42549 |
| 12771.2 | 0.384698 | 0.43041 |
| 12775.5 | 0.412021 | 0.42183 |
| 12779.7 | 0.400126 | 0.44095 |
| 12784   | 0.40906  | 0.42491 |
| 12788.2 | 0.403346 | 0.43222 |
| 12792.5 | 0.441439 | 0.42452 |
| 12796.8 | 0.439437 | 0.43357 |
| 12801   | 0.43908  | 0.41187 |
| 12805.3 | 0.447873 | 0.42371 |
| 12809.5 | 0.460274 | 0.41066 |
| 12813.8 | 0.444165 | 0.40995 |
| 12818   | 0.429479 | 0.40631 |
| 12822.3 | 0.406651 | 0.4312  |
| 12826.5 | 0.400937 | 0.4212  |
| 12830.8 | 0.389166 | 0.40853 |
| 12835   | 0.395707 | 0.39817 |
| 12839.3 | 0.380347 | 0.40553 |
| 12843.5 | 0.384368 | 0.38873 |
| 12847.8 | 0.365857 | 0.40359 |
| 12852   | 0.378836 | 0.38519 |
| 12856.3 | 0.385335 | 0.40889 |
| 12860.5 | 0.407087 | 0.40715 |
| 12864.8 | 0.392212 | 0.41095 |
| 12869.1 | 0.410404 | 0.39135 |
| 12873.3 | 0.408485 | 0.38005 |
| 12877.6 | 0.404531 | 0.3537  |
| 12881.8 | 0.421773 | 0.34528 |
| 12886.1 | 0.419136 | 0.3478  |
| 12890.3 | 0.402219 | 0.36443 |
| 12894.6 | 0.392821 | 0.36536 |
| 12898.8 | 0.409335 | 0.37691 |
| 12903.1 | 0.39448  | 0.38012 |
| 12907.3 | 0.370834 | 0.38729 |
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| 12915.8 | 0.385573 | 0.40345 |

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| 12920.1 | 0.409087 | 0.42023 |
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| 12937.1 | 0.422736 | 0.42537 |
| 12941.3 | 0.408946 | 0.40587 |
| 12945.6 | 0.406706 | 0.40157 |
| 12949.9 | 0.408235 | 0.39199 |
| 12954.1 | 0.395658 | 0.38182 |
| 12958.4 | 0.400158 | 0.37712 |
| 12962.6 | 0.41267  | 0.37405 |
| 12966.9 | 0.401435 | 0.39243 |
| 12971.1 | 0.378949 | 0.43087 |
| 12975.4 | 0.366476 | 0.45146 |
| 12979.6 | 0.374143 | 0.43488 |
| 12983.9 | 0.381933 | 0.43241 |
| 12988.1 | 0.399457 | 0.40834 |
| 12992.4 | 0.374201 | 0.41094 |
| 12996.6 | 0.38404  | 0.40927 |
| 13000.9 | 0.371451 | 0.42204 |
| 13005.1 | 0.387601 | 0.40051 |
| 13009.4 | 0.39881  | 0.39426 |
| 13013.6 | 0.413611 | 0.37436 |
| 13017.9 | 0.407844 | 0.38163 |
| 13022.2 | 0.397586 | 0.39903 |
| 13026.4 | 0.42451  | 0.38142 |
| 13030.7 | 0.430452 | 0.38228 |
| 13034.9 | 0.44864  | 0.36688 |
| 13039.2 | 0.432211 | 0.38657 |
| 13043.4 | 0.47191  | 0.39172 |
| 13047.7 | 0.423442 | 0.42235 |
| 13051.9 | 0.407049 | 0.43644 |
| 13056.2 | 0.401337 | 0.46229 |
| 13060.4 | 0.422427 | 0.45456 |
| 13064.7 | 0.414587 | 0.42862 |
| 13068.9 | 0.430654 | 0.407   |
| 13073.2 | 0.446732 | 0.42629 |
| 13077.4 | 0.417794 | 0.40501 |
| 13081.7 | 0.392782 | 0.40919 |
| 13085.9 | 0.389721 | 0.41071 |
| 13090.2 | 0.403308 | 0.42391 |
| 13094.5 | 0.37864  | 0.40729 |
| 13098.7 | 0.37412  | 0.4088  |
| 13103   | 0.388197 | 0.4138  |
| 13107.2 | 0.40131  | 0.39103 |
| 13111.5 | 0.383631 | 0.3856  |
| 13115.7 | 0.395828 | 0.38642 |
| 13120   | 0.401271 | 0.35736 |
| 13124.2 | 0.412687 | 0.34949 |

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| 13128.5 | 0.391737 | 0.36339 |
| 13132.7 | 0.387908 | 0.36781 |
| 13137   | 0.378392 | 0.36618 |
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| 13145.5 | 0.391656 | 0.39192 |
| 13149.7 | 0.41618  | 0.3813  |
| 13154   | 0.415453 | 0.38122 |
| 13158.2 | 0.448285 | 0.38645 |
| 13162.5 | 0.434338 | 0.41303 |
| 13166.7 | 0.438568 | 0.43086 |
| 13171   | 0.439144 | 0.41878 |
| 13175.3 | 0.457387 | 0.42421 |
| 13179.5 | 0.457102 | 0.42312 |
| 13183.8 | 0.439748 | 0.42537 |
| 13188   | 0.405017 | 0.39813 |
| 13192.3 | 0.369858 | 0.38461 |
| 13196.5 | 0.3758   | 0.39522 |
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| 13205   | 0.348557 | 0.37486 |
| 13209.3 | 0.334068 | 0.37427 |
| 13213.5 | 0.327081 | 0.37912 |
| 13217.8 | 0.324849 | 0.38679 |
| 13222   | 0.355465 | 0.38658 |
| 13226.3 | 0.382695 | 0.40236 |
| 13230.5 | 0.392506 | 0.40101 |
| 13234.8 | 0.378297 | 0.40555 |
| 13239   | 0.359358 | 0.39599 |
| 13243.3 | 0.351496 | 0.411   |
| 13247.6 | 0.364702 | 0.3765  |
| 13251.8 | 0.355269 | 0.34941 |
| 13256.1 | 0.324509 | 0.31701 |
| 13260.3 | 0.313504 | 0.29103 |
| 13264.6 | 0.341493 | 0.28505 |
| 13268.8 | 0.355777 | 0.31788 |
| 13273.1 | 0.437062 | 0.36189 |
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| 13281.6 | 0.613018 | 0.40472 |
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| 13290.1 | 0.482284 | 0.42579 |
| 13294.3 | 0.45349  | 0.42464 |
| 13298.6 | 0.427237 | 0.4111  |
| 13302.8 | 0.380617 | 0.42721 |
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| 13332.6 | 0.413349 | 0.39023 |



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| 13336.9 | 0.4135   | 0.40823 |
| 13341.1 | 0.40578  | 0.42183 |
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| 13353.9 | 0.391958 | 0.43042 |
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| 13477.2 | 0.399222 | 0.41936 |
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| 13515.5 | 0.388314 | 0.43429 |
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| 13524   | 0.409178 | 0.4578  |
| 13528.2 | 0.411925 | 0.46263 |
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| 13545.3 | 0.455175 | 0.46572 |
| 13549.5 | 0.470647 | 0.43343 |
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| 13579.3 | 0.412581 | 0.39267 |
| 13583.5 | 0.428845 | 0.39998 |
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| 13592   | 0.42159  | 0.40908 |
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| 13638.8 | 0.437367 | 0.44999 |
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| 13647.3 | 0.429499 | 0.4562  |
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| 13757.9 | 0.451258 | 0.4327  |
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| 13851.5 | 0.427004 | 0.40711 |
| 13855.7 | 0.431978 | 0.42561 |
| 13860   | 0.42548  | 0.43948 |
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| 13868.5 | 0.45113  | 0.47316 |
| 13872.7 | 0.470634 | 0.46522 |
| 13877   | 0.513093 | 0.48312 |
| 13881.2 | 0.501099 | 0.49391 |
| 13885.5 | 0.489119 | 0.4873  |
| 13889.7 | 0.455785 | 0.44664 |
| 13894   | 0.450297 | 0.42345 |
| 13898.2 | 0.437055 | 0.42704 |
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| 13911   | 0.416571 | 0.4181  |
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| 13923.8 | 0.473699 | 0.43734 |
| 13928   | 0.474175 | 0.44368 |
| 13932.3 | 0.464996 | 0.4418  |
| 13936.5 | 0.455786 | 0.4258  |
| 13940.8 | 0.451794 | 0.44626 |
| 13945   | 0.419603 | 0.42588 |
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| 13962   | 0.363816 | 0.39908 |
| 13966.3 | 0.369056 | 0.36882 |
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| 13979   | 0.393034 | 0.35409 |
| 13983.3 | 0.394687 | 0.37149 |
| 13987.5 | 0.383764 | 0.39805 |
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| 13996.1 | 0.380415 | 0.40763 |
| 14000.3 | 0.393741 | 0.39774 |
| 14004.6 | 0.394614 | 0.39699 |
| 14008.8 | 0.40147  | 0.40315 |
| 14013.1 | 0.413407 | 0.41508 |
| 14017.3 | 0.405122 | 0.4384  |
| 14021.6 | 0.396685 | 0.44162 |
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| 14030.1 | 0.396648 | 0.43354 |
| 14034.3 | 0.394005 | 0.44868 |
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| 14051.3 | 0.417585 | 0.45044 |
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| 14059.8 | 0.402537 | 0.44235 |
| 14064.1 | 0.405525 | 0.44144 |
| 14068.3 | 0.407723 | 0.43825 |
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| 14076.9 | 0.411469 | 0.41061 |
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| 14093.9 | 0.409831 | 0.41009 |
| 14098.1 | 0.38583  | 0.41236 |
| 14102.4 | 0.390194 | 0.42263 |
| 14106.6 | 0.405049 | 0.42727 |
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| 14119.4 | 0.41951  | 0.49031 |
| 14123.6 | 0.434033 | 0.49246 |
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| 14132.1 | 0.448319 | 0.46074 |
| 14136.4 | 0.450355 | 0.44019 |
| 14140.6 | 0.434022 | 0.40398 |
| 14144.9 | 0.431815 | 0.4135  |
| 14149.2 | 0.439956 | 0.40382 |
| 14153.4 | 0.437985 | 0.445   |
| 14157.7 | 0.427809 | 0.44234 |
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| 14170.4 | 0.441689 | 0.45174 |
| 14174.7 | 0.436962 | 0.43087 |
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| 14187.4 | 0.416868 | 0.41219 |
| 14191.7 | 0.419347 | 0.41261 |
| 14195.9 | 0.42726  | 0.41024 |
| 14200.2 | 0.442012 | 0.42332 |
| 14204.4 | 0.430314 | 0.44827 |
| 14208.7 | 0.445072 | 0.43955 |
| 14212.9 | 0.45456  | 0.43302 |
| 14217.2 | 0.483224 | 0.45896 |
| 14221.5 | 0.449737 | 0.47843 |
| 14225.7 | 0.445669 | 0.47311 |
| 14230   | 0.42955  | 0.50227 |
| 14234.2 | 0.440061 | 0.49918 |
| 14238.5 | 0.426593 | 0.48676 |
| 14242.7 | 0.412408 | 0.47483 |
| 14247   | 0.407291 | 0.48519 |
| 14251.2 | 0.39942  | 0.45851 |
| 14255.5 | 0.403784 | 0.43941 |
| 14259.7 | 0.396315 | 0.44313 |
| 14264   | 0.394686 | 0.44982 |
| 14268.2 | 0.413304 | 0.45352 |
| 14272.5 | 0.429884 | 0.46397 |
| 14276.7 | 0.431627 | 0.46725 |
| 14281   | 0.453318 | 0.46279 |
| 14285.2 | 0.491266 | 0.46292 |
| 14289.5 | 0.465949 | 0.48277 |
| 14293.7 | 0.453603 | 0.45858 |
| 14298   | 0.422224 | 0.46604 |
| 14302.3 | 0.447168 | 0.47369 |
| 14306.5 | 0.423253 | 0.49201 |
| 14310.8 | 0.430223 | 0.46013 |
| 14315   | 0.427582 | 0.4599  |
| 14319.3 | 0.457004 | 0.45869 |
| 14323.5 | 0.42676  | 0.45305 |
| 14327.8 | 0.436885 | 0.42996 |
| 14332   | 0.448413 | 0.42219 |
| 14336.3 | 0.434063 | 0.41562 |
| 14340.5 | 0.420208 | 0.42308 |
| 14344.8 | 0.417847 | 0.45647 |
| 14349   | 0.412736 | 0.48782 |
| 14353.3 | 0.407866 | 0.47882 |
| 14357.5 | 0.433581 | 0.48814 |
| 14361.8 | 0.459016 | 0.47321 |
| 14366   | 0.49215  | 0.45825 |
| 14370.3 | 0.497469 | 0.42928 |
| 14374.6 | 0.486098 | 0.41454 |

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| 14378.8 | 0.470503 | 0.4368  |
| 14383.1 | 0.459357 | 0.45238 |
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| 14395.8 | 0.42256  | 0.449   |
| 14400.1 | 0.424867 | 0.43461 |
| 14404.3 | 0.416567 | 0.43869 |
| 14408.6 | 0.408508 | 0.42769 |
| 14412.8 | 0.409093 | 0.41329 |
| 14417.1 | 0.406214 | 0.40676 |
| 14421.3 | 0.42168  | 0.41521 |
| 14425.6 | 0.423939 | 0.43857 |
| 14429.8 | 0.432123 | 0.44349 |
| 14434.1 | 0.438273 | 0.41782 |
| 14438.3 | 0.467356 | 0.41427 |
| 14442.6 | 0.459444 | 0.40505 |
| 14446.9 | 0.45079  | 0.39909 |
| 14451.1 | 0.43063  | 0.40829 |
| 14455.4 | 0.43109  | 0.45383 |
| 14459.6 | 0.43026  | 0.44288 |
| 14463.9 | 0.461653 | 0.47369 |
| 14468.1 | 0.485581 | 0.46674 |
| 14472.4 | 0.487281 | 0.4538  |
| 14476.6 | 0.474669 | 0.42899 |
| 14480.9 | 0.471541 | 0.43883 |
| 14485.1 | 0.451921 | 0.42201 |
| 14489.4 | 0.455162 | 0.40756 |
| 14493.6 | 0.489638 | 0.41898 |
| 14497.9 | 0.498901 | 0.44029 |
| 14502.1 | 0.466406 | 0.42488 |
| 14506.4 | 0.455981 | 0.45324 |
| 14510.6 | 0.479373 | 0.46413 |
| 14514.9 | 0.462919 | 0.47448 |
| 14519.1 | 0.453323 | 0.44275 |
| 14523.4 | 0.463162 | 0.42846 |
| 14527.7 | 0.479253 | 0.42008 |
| 14531.9 | 0.462991 | 0.43335 |
| 14536.2 | 0.459925 | 0.44028 |
| 14540.4 | 0.43984  | 0.4476  |
| 14544.7 | 0.441619 | 0.48503 |
| 14548.9 | 0.412159 | 0.47744 |
| 14553.2 | 0.413281 | 0.47821 |
| 14557.4 | 0.407001 | 0.46578 |
| 14561.7 | 0.426393 | 0.45681 |
| 14565.9 | 0.45549  | 0.43031 |
| 14570.2 | 0.501751 | 0.42415 |
| 14574.4 | 0.46877  | 0.40567 |
| 14578.7 | 0.431743 | 0.40905 |
| 14582.9 | 0.446899 | 0.41583 |

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| 14587.2 | 0.442747 | 0.40858 |
| 14591.4 | 0.432285 | 0.41979 |
| 14595.7 | 0.440981 | 0.42242 |
| 14600   | 0.458913 | 0.43283 |
| 14604.2 | 0.432667 | 0.43849 |
| 14608.5 | 0.432856 | 0.46331 |
| 14612.7 | 0.439149 | 0.43313 |
| 14617   | 0.43152  | 0.44492 |
| 14621.2 | 0.411973 | 0.43764 |
| 14625.5 | 0.42034  | 0.46712 |
| 14629.7 | 0.422459 | 0.44933 |
| 14634   | 0.407926 | 0.45137 |
| 14638.2 | 0.425423 | 0.44007 |
| 14642.5 | 0.443519 | 0.42411 |
| 14646.7 | 0.450874 | 0.44407 |
| 14651   | 0.447259 | 0.46271 |
| 14655.2 | 0.435846 | 0.47661 |
| 14659.5 | 0.435436 | 0.47581 |
| 14663.7 | 0.432705 | 0.48316 |
| 14668   | 0.461322 | 0.44943 |
| 14672.2 | 0.466463 | 0.45315 |
| 14676.5 | 0.480072 | 0.4549  |
| 14680.8 | 0.484436 | 0.44504 |
| 14685   | 0.502296 | 0.43261 |
| 14689.3 | 0.505032 | 0.43401 |
| 14693.5 | 0.507542 | 0.44155 |
| 14697.8 | 0.486478 | 0.4684  |
| 14702   | 0.471373 | 0.47364 |
| 14706.3 | 0.475261 | 0.45589 |
| 14710.5 | 0.486462 | 0.47211 |
| 14714.8 | 0.489661 | 0.48252 |
| 14719   | 0.48732  | 0.45957 |
| 14723.3 | 0.49674  | 0.43793 |
| 14727.5 | 0.502381 | 0.43604 |
| 14731.8 | 0.488024 | 0.4223  |
| 14736   | 0.463504 | 0.40711 |
| 14740.3 | 0.44097  | 0.41809 |
| 14744.5 | 0.446447 | 0.43441 |
| 14748.8 | 0.454203 | 0.42642 |
| 14753.1 | 0.474531 | 0.43072 |
| 14757.3 | 0.454643 | 0.42807 |
| 14761.6 | 0.46377  | 0.44573 |
| 14765.8 | 0.44924  | 0.44905 |
| 14770.1 | 0.466864 | 0.46298 |
| 14774.3 | 0.449735 | 0.44506 |
| 14778.6 | 0.455042 | 0.4434  |
| 14782.8 | 0.443387 | 0.44536 |
| 14787.1 | 0.444618 | 0.43296 |
| 14791.3 | 0.428416 | 0.43473 |

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| 14795.6 | 0.459896 | 0.43835 |
| 14799.8 | 0.44372  | 0.44274 |
| 14804.1 | 0.442345 | 0.47194 |
| 14808.3 | 0.451601 | 0.47349 |
| 14812.6 | 0.475541 | 0.48853 |
| 14816.8 | 0.457805 | 0.47223 |
| 14821.1 | 0.445048 | 0.47912 |
| 14825.4 | 0.446268 | 0.48062 |
| 14829.6 | 0.449381 | 0.49882 |
| 14833.9 | 0.413868 | 0.49204 |
| 14838.1 | 0.439707 | 0.48392 |
| 14842.4 | 0.453777 | 0.49398 |
| 14846.6 | 0.486429 | 0.47109 |
| 14850.9 | 0.475607 | 0.45417 |
| 14855.1 | 0.517622 | 0.45196 |
| 14859.4 | 0.481325 | 0.46449 |
| 14863.6 | 0.486015 | 0.46686 |
| 14867.9 | 0.469486 | 0.44043 |
| 14872.1 | 0.501146 | 0.42993 |
| 14876.4 | 0.485759 | 0.44444 |
| 14880.6 | 0.484329 | 0.42904 |
| 14884.9 | 0.459337 | 0.43405 |
| 14889.1 | 0.465734 | 0.43269 |
| 14893.4 | 0.449499 | 0.46838 |
| 14897.6 | 0.435602 | 0.4845  |
| 14901.9 | 0.432442 | 0.47788 |
| 14906.2 | 0.457577 | 0.44483 |
| 14910.4 | 0.4552   | 0.42158 |
| 14914.7 | 0.461956 | 0.41425 |
| 14918.9 | 0.441772 | 0.39523 |
| 14923.2 | 0.472375 | 0.40961 |
| 14927.4 | 0.465362 | 0.44734 |
| 14931.7 | 0.451759 | 0.47404 |
| 14935.9 | 0.429055 | 0.46781 |
| 14940.2 | 0.434799 | 0.47892 |
| 14944.4 | 0.451201 | 0.4979  |
| 14948.7 | 0.451042 | 0.49798 |
| 14952.9 | 0.487687 | 0.49131 |
| 14957.2 | 0.539638 | 0.46898 |
| 14961.4 | 0.538967 | 0.48804 |
| 14965.7 | 0.536675 | 0.48361 |
| 14969.9 | 0.495085 | 0.46928 |
| 14974.2 | 0.507725 | 0.43004 |
| 14978.5 | 0.488909 | 0.44357 |
| 14982.7 | 0.479496 | 0.4466  |
| 14987   | 0.444969 | 0.45693 |
| 14991.2 | 0.457352 | 0.45104 |
| 14995.5 | 0.442903 | 0.46469 |
| 14999.7 | 0.44209  | 0.4677  |



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| 15004   | 0.439316 | 0.47064 |
| 15008.2 | 0.462794 | 0.46005 |
| 15012.5 | 0.46132  | 0.44174 |
| 15016.7 | 0.455761 | 0.43392 |
| 15021   | 0.46434  | 0.44324 |
| 15025.2 | 0.45634  | 0.44035 |
| 15029.5 | 0.439666 | 0.44551 |
| 15033.7 | 0.446155 | 0.43075 |
| 15038   | 0.445639 | 0.42795 |
| 15042.2 | 0.443191 | 0.4046  |
| 15046.5 | 0.43428  | 0.40275 |
| 15050.8 | 0.445899 | 0.40268 |
| 15055   | 0.444351 | 0.40599 |
| 15059.3 | 0.461728 | 0.3999  |
| 15063.5 | 0.456181 | 0.39834 |
| 15067.8 | 0.44797  | 0.40081 |
| 15072   | 0.428144 | 0.39802 |
| 15076.3 | 0.422201 | 0.41651 |
| 15080.5 | 0.420777 | 0.42442 |
| 15084.8 | 0.448106 | 0.41765 |
| 15089   | 0.474925 | 0.40975 |
| 15093.3 | 0.475341 | 0.42692 |
| 15097.5 | 0.495352 | 0.43171 |
| 15101.8 | 0.509022 | 0.43272 |
| 15106   | 0.525118 | 0.45521 |
| 15110.3 | 0.486757 | 0.48845 |
| 15114.5 | 0.463032 | 0.48001 |
| 15118.8 | 0.460704 | 0.45409 |
| 15123   | 0.467548 | 0.43881 |
| 15127.3 | 0.46531  | 0.43238 |
| 15131.6 | 0.467001 | 0.41989 |
| 15135.8 | 0.473705 | 0.41826 |
| 15140.1 | 0.477939 | 0.44771 |
| 15144.3 | 0.482238 | 0.44217 |
| 15148.6 | 0.474592 | 0.46043 |
| 15152.8 | 0.489026 | 0.47363 |
| 15157.1 | 0.47328  | 0.49367 |
| 15161.3 | 0.47613  | 0.47635 |
| 15165.6 | 0.482525 | 0.48213 |
| 15169.8 | 0.534994 | 0.49805 |
| 15174.1 | 0.539359 | 0.47224 |
| 15178.3 | 0.548207 | 0.45316 |
| 15182.6 | 0.542291 | 0.44612 |
| 15186.8 | 0.531464 | 0.48748 |
| 15191.1 | 0.506886 | 0.48976 |
| 15195.3 | 0.489482 | 0.50406 |
| 15199.6 | 0.510504 | 0.50345 |
| 15203.9 | 0.488072 | 0.53167 |
| 15208.1 | 0.493877 | 0.53089 |

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| 15212.4 | 0.477038  | 0.50216 |
| 15216.6 | 0.498276  | 0.48653 |
| 15220.9 | 0.509743  | 0.50782 |
| 15225.1 | 0.530407  | 0.41962 |
| 15229.4 | 0.504428  | 0.2612  |
| 15233.6 | 0.49361   | 0.1696  |
| 15237.9 | 0.408686  | 0.11635 |
| 15242.1 | 0.250538  | 0.1007  |
| 15246.4 | 0.16141   | 0.09488 |
| 15250.6 | 0.110506  | 0.13085 |
| 15254.9 | 0.0854515 | 0.20013 |
| 15259.1 | 0.0879743 | 0.31092 |
| 15263.4 | 0.12169   | 0.37398 |
| 15267.6 | 0.183905  | 0.43012 |
| 15271.9 | 0.296379  | 0.49802 |
| 15276.2 | 0.384834  | 0.5179  |
| 15280.4 | 0.41      | 0.54034 |
| 15284.7 | 0.438213  | 0.53215 |
| 15288.9 | 0.499899  | 0.52529 |
| 15293.2 | 0.517109  | 0.50486 |
| 15297.4 | 0.506835  | 0.48654 |
| 15301.7 | 0.536056  | 0.49788 |
| 15305.9 | 0.517664  | 0.47848 |
| 15310.2 | 0.481978  | 0.46195 |
| 15314.4 | 0.448174  | 0.44741 |
| 15318.7 | 0.443513  | 0.46564 |
| 15322.9 | 0.447059  | 0.45239 |
| 15327.2 | 0.482422  | 0.44859 |
| 15331.4 | 0.501114  | 0.42383 |
| 15335.7 | 0.497516  | 0.44814 |
| 15339.9 | 0.493685  | 0.46094 |
| 15344.2 | 0.510712  | 0.4876  |
| 15348.4 | 0.543321  | 0.49357 |
| 15352.7 | 0.51107   | 0.5095  |
| 15357   | 0.50459   | 0.51464 |
| 15361.2 | 0.500991  | 0.49306 |
| 15365.5 | 0.474278  | 0.46842 |
| 15369.7 | 0.441963  | 0.46387 |
| 15374   | 0.42228   | 0.47857 |
| 15378.2 | 0.419833  | 0.49321 |
| 15382.5 | 0.445551  | 0.51864 |
| 15386.7 | 0.456199  | 0.51799 |
| 15391   | 0.471497  | 0.51982 |
| 15395.2 | 0.483882  | 0.51788 |
| 15399.5 | 0.507677  | 0.52305 |
| 15403.7 | 0.509929  | 0.50646 |
| 15408   | 0.50746   | 0.5097  |