Карта сублиторальных бентосных сообществ акватории, прилежащей к острову Ряжкову

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**Хайтов В. М. Карта сублиторальных бентосных сообществ акватории, прилежащей к острову Ряжкову**  // Толмачева Е. Л. (ред.) Летопись природы Кадалакшского заповедника за 2024 год (ежегодный отчет). Кандалакша. Т.1 (Летопись природы Кандалакшского заповедника, кн. ++)

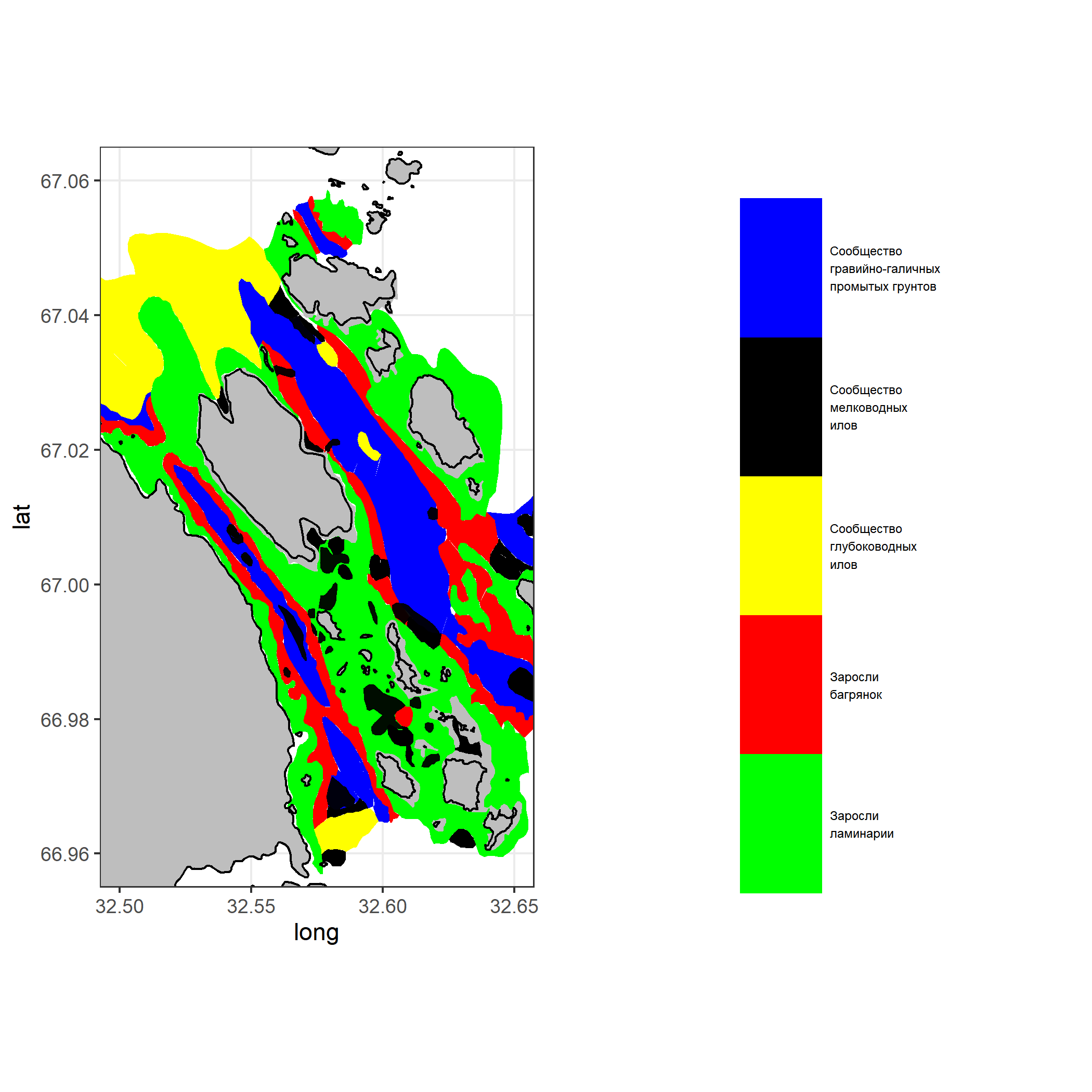
По материалам дражных сборов 1960-х - 1990-х годов построена карта распределения сублиторальных бентосных сообществ.

**Khaitov V.M. Map of sublittoral benthic communities of the water area adjacent to Ryazhkov Island**  // Tolmacheva E. L. (ed.) The Chronicle of Nature by the Kandalaksha Reserve for 2024 (Annual report). Kandalaksha. V.1. (The Chronicle of Nature by the Kandalaksha Reserve, Book N ++)

A map of the distribution of sublittoral benthic communities was constructed based on the materials of dredge surveys of the 1960s - 1990s.

В период с 1964 по 1993 гг. проводилась работа по инвентаризации сообществ макробентоса в окрестностях о. Ряжкова (более 600 дражных и более 100 дночерпательных станций). Многочисленные бентосные количественные и качественные пробы позволили выделить несколько наиболее типичных сообществ, представленных в сублиторали вершины Кандалакшского залива. Для визуализации пространственного распределения этих сообществ была построена карта (Рисунок 1). К сожалению, целый ряд сообществ бентоса, представленных в верхней сублиторали (сообщества, связанные с зарослями *Zostera marina*, нитчатых водорослей и сообщества, формирующиеся на заиленных участках в мелководных губах) остаются не нанесенными на карту из-за недостаточной обследованности.

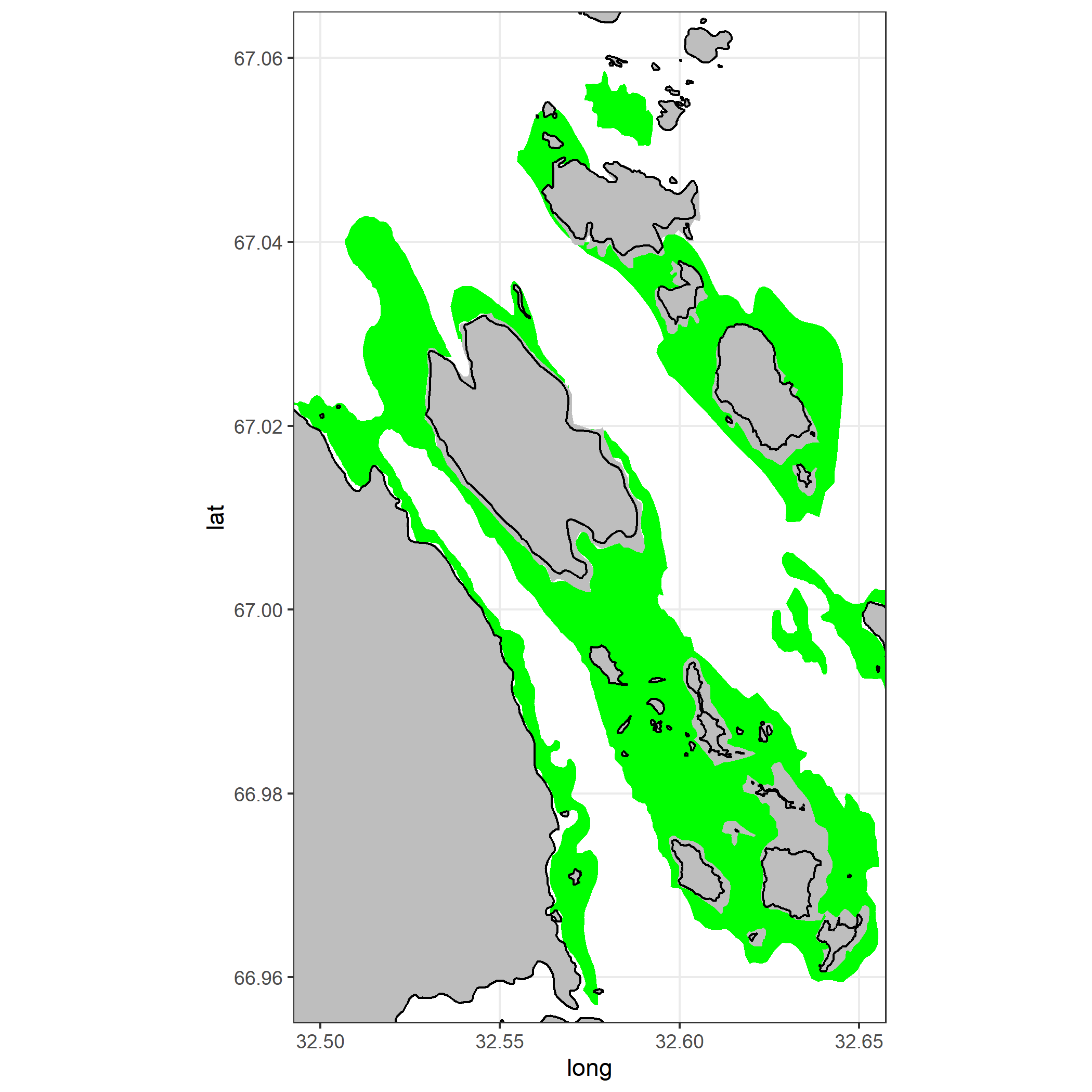
Приведенные ниже карты и описания сообществ сугубо предварительны и требуют дополнительных описаний. Для географической привязки сообществ ниже приводятся координаты узлов полигонов, оконтуривающих пространственные выделы, занятые соответствующими сообществами. Эти данные, также, требуют уточнения и могут рассматриваться лишь как приблизительные границы распространения сообществ.



**Рисунок 1.** Карта распределения сублиторальных сообществ

## Сообщества, связанные с зарослями ламинарии

Формирование этого типа сообществ определяется поселениями бурой водоросли *Saccharina latissima* (Linnaeus), которая крепится к твердым субстратам ризоидами, от которых берет начало черешок, дистальная часть которого формирует пластину, длина которой может достигать нескольких метров. Заросли ламинарии приурочены к верхней части сублиторали (до глубины около 10 м). В окрестностях о. Ряжкова этот тип сообществ занимает обширные площади (Рисунок 2). Заросли ламинарии окаймляют практически все острова и склоны берегов материка. Однако наиболее обширные заросли представлены в пространстве между островами Ряшков, Девичья Луда, Большой и Малый Ломтишные. Обычно в этих зарослях формируется довольно сложный комплекс относительно независимых друг от друга сообществ: сообщества ризоидов ламинарии, сообщества обрастателей черешка и пластины водорослей и сообщества илистого грунта, который обычно скапливается в местах поселения этих водорослей.



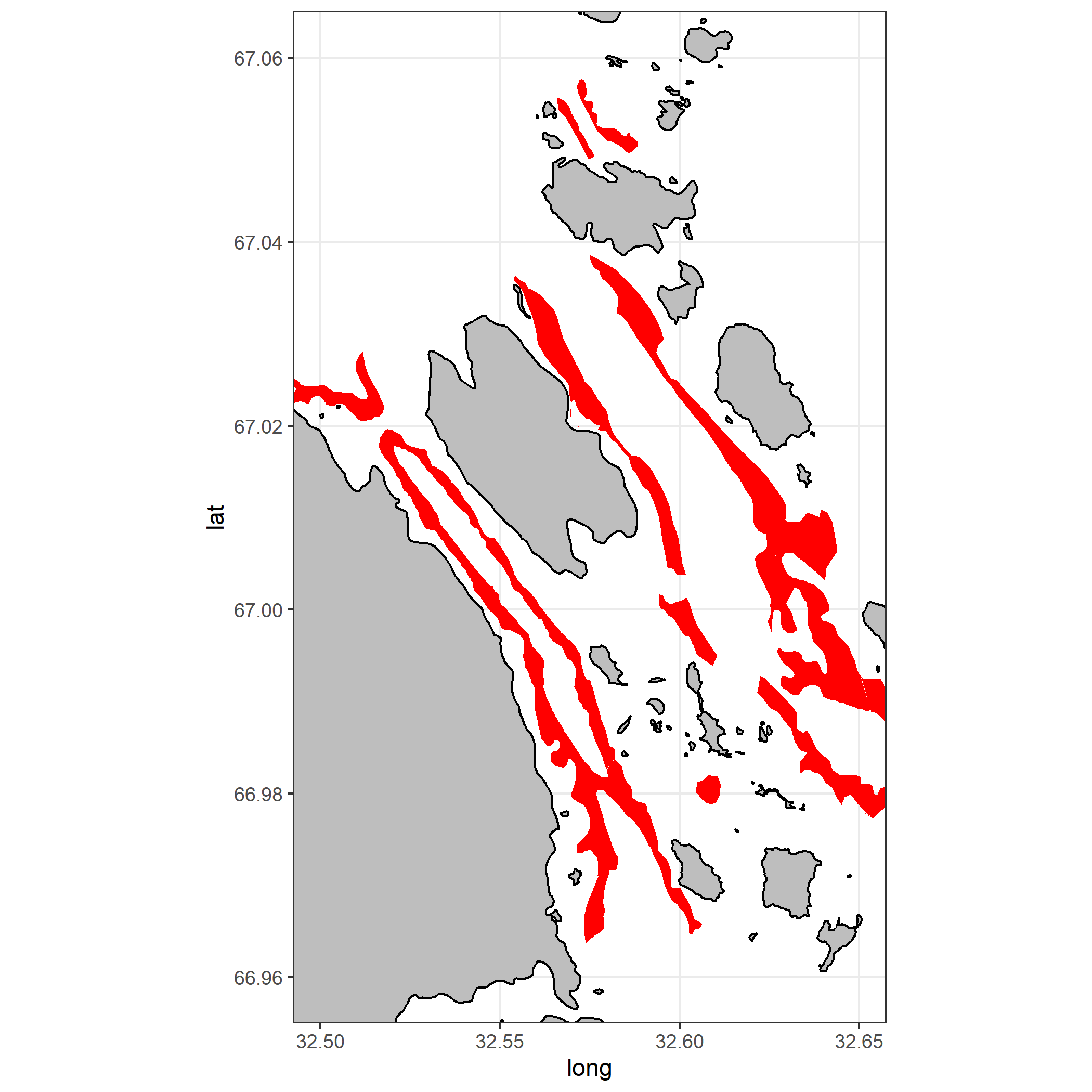
**Рисунок 2.** Карта распределения сообщества, связанного с зарослями ламинарии. Map of community distribution associated with kelp beds

Таблица +.1. Координаты опорных точек полигонов, описывающих сообщество, связанное с зарослями ламинарии. Coordinates of reference points of polygons describing the community associated with kelp beds

| № точки | Порядок | N | E | № точки | Порядок | N | E | № точки | Порядок | N | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 67.05805 | 32.57841 | 2 | 2 | 67.05863 | 32.57885 | 3 | 3 | 67.05830 | 32.57962 |
| 4 | 4 | 67.05775 | 32.58002 | 5 | 5 | 67.05717 | 32.58006 | 6 | 6 | 67.05640 | 32.58105 |
| 7 | 7 | 67.05644 | 32.58185 | 8 | 8 | 67.05640 | 32.58251 | 9 | 9 | 67.05706 | 32.58343 |
| 10 | 10 | 67.05702 | 32.58394 | 11 | 11 | 67.05724 | 32.58456 | 12 | 12 | 67.05713 | 32.58482 |
| 13 | 13 | 67.05687 | 32.58519 | 14 | 14 | 67.05636 | 32.58529 | 15 | 15 | 67.05614 | 32.58573 |
| 16 | 16 | 67.05607 | 32.58617 | 17 | 17 | 67.05629 | 32.58702 | 18 | 18 | 67.05614 | 32.58764 |
| 19 | 19 | 67.05618 | 32.58837 | 20 | 20 | 67.05589 | 32.58954 | 21 | 21 | 67.05578 | 32.59020 |
| 22 | 22 | 67.05537 | 32.59060 | 23 | 23 | 67.05479 | 32.59064 | 24 | 24 | 67.05424 | 32.59086 |
| 25 | 25 | 67.05435 | 32.59130 | 26 | 26 | 67.05402 | 32.59189 | 27 | 27 | 67.05362 | 32.59262 |
| 28 | 28 | 67.05266 | 32.59258 | 29 | 29 | 67.05200 | 32.59240 | 30 | 30 | 67.05135 | 32.59207 |
| 31 | 31 | 67.05069 | 32.59196 | 32 | 32 | 67.05047 | 32.59145 | 33 | 33 | 67.05039 | 32.59101 |
| 34 | 34 | 67.05054 | 32.59042 | 35 | 35 | 67.05047 | 32.58991 | 36 | 36 | 67.05047 | 32.58936 |
| 37 | 37 | 67.05050 | 32.58852 | 38 | 38 | 67.05094 | 32.58819 | 39 | 39 | 67.05138 | 32.58709 |
| 40 | 40 | 67.05146 | 32.58610 | 41 | 41 | 67.05157 | 32.58456 | 42 | 42 | 67.05171 | 32.58379 |
| 43 | 43 | 67.05211 | 32.58291 | 44 | 44 | 67.05233 | 32.58211 | 45 | 45 | 67.05244 | 32.58134 |
| 46 | 46 | 67.05233 | 32.58061 | 47 | 47 | 67.05233 | 32.57973 | 48 | 48 | 67.05230 | 32.57863 |
| 49 | 49 | 67.05252 | 32.57797 | 50 | 50 | 67.05244 | 32.57739 | 51 | 51 | 67.05270 | 32.57687 |
| 52 | 52 | 67.05318 | 32.57709 | 53 | 53 | 67.05362 | 32.57724 | 54 | 54 | 67.05395 | 32.57695 |
| 55 | 55 | 67.05406 | 32.57621 | 56 | 56 | 67.05416 | 32.57581 | 57 | 57 | 67.05420 | 32.57544 |
| 58 | 58 | 67.05460 | 32.57570 | 59 | 59 | 67.05501 | 32.57607 | 60 | 60 | 67.05526 | 32.57570 |
| 61 | 61 | 67.05526 | 32.57512 | 62 | 62 | 67.05537 | 32.57438 | 63 | 63 | 67.05534 | 32.57358 |
| 64 | 64 | 67.05563 | 32.57358 | 65 | 65 | 67.05589 | 32.57376 | 66 | 66 | 67.05603 | 32.57409 |
| 67 | 67 | 67.05651 | 32.57416 | 68 | 68 | 67.05702 | 32.57372 | 69 | 69 | 67.05720 | 32.57391 |
| 70 | 70 | 67.05709 | 32.57519 | 71 | 71 | 67.05720 | 32.57618 | 72 | 72 | 67.05713 | 32.57695 |
| 73 | 73 | 67.05742 | 32.57823 | 74 | 74 | 67.05805 | 32.57841 | 75 | 1 | 67.00071 | 32.62960 |
| 76 | 2 | 67.00159 | 32.63097 | 77 | 3 | 67.00245 | 32.63202 | 78 | 4 | 67.00231 | 32.63292 |
| 79 | 5 | 67.00207 | 32.63359 | 80 | 6 | 67.00174 | 32.63383 | 81 | 7 | 67.00126 | 32.63435 |
| 82 | 8 | 67.00088 | 32.63497 | 83 | 9 | 67.00011 | 32.63583 | 84 | 10 | 66.99930 | 32.63583 |
| 85 | 11 | 66.99845 | 32.63588 | 86 | 12 | 66.99802 | 32.63597 | 87 | 13 | 66.99773 | 32.63631 |
| 88 | 14 | 66.99749 | 32.63674 | 89 | 15 | 66.99697 | 32.63683 | 90 | 16 | 66.99663 | 32.63702 |
| 91 | 17 | 66.99644 | 32.63755 | 92 | 18 | 66.99611 | 32.63845 | 93 | 19 | 66.99582 | 32.63902 |
| 94 | 20 | 66.99558 | 32.63955 | 95 | 21 | 66.99530 | 32.64007 | 96 | 22 | 66.99473 | 32.64069 |
| 97 | 23 | 66.99415 | 32.64088 | 98 | 24 | 66.99382 | 32.64117 | 99 | 25 | 66.99330 | 32.64112 |
| 100 | 26 | 66.99306 | 32.64088 | 101 | 27 | 66.99296 | 32.64050 | 102 | 28 | 66.99301 | 32.64003 |
| 103 | 29 | 66.99325 | 32.63960 | 104 | 30 | 66.99368 | 32.63936 | 105 | 31 | 66.99392 | 32.63898 |
| 106 | 32 | 66.99425 | 32.63855 | 107 | 33 | 66.99434 | 32.63831 | 108 | 34 | 66.99425 | 32.63788 |
| 109 | 35 | 66.99430 | 32.63716 | 110 | 36 | 66.99439 | 32.63678 | 111 | 37 | 66.99425 | 32.63612 |
| 112 | 38 | 66.99425 | 32.63578 | 113 | 39 | 66.99425 | 32.63545 | 114 | 40 | 66.99430 | 32.63502 |
| 115 | 41 | 66.99444 | 32.63464 | 116 | 42 | 66.99468 | 32.63430 | 117 | 43 | 66.99501 | 32.63411 |
| 118 | 44 | 66.99525 | 32.63359 | 119 | 45 | 66.99544 | 32.63306 | 120 | 46 | 66.99558 | 32.63273 |
| 121 | 47 | 66.99554 | 32.63197 | 122 | 48 | 66.99544 | 32.63121 | 123 | 49 | 66.99539 | 32.63059 |
| 124 | 50 | 66.99549 | 32.62982 | 125 | 51 | 66.99539 | 32.62930 | 126 | 52 | 66.99558 | 32.62854 |
| 127 | 53 | 66.99578 | 32.62811 | 128 | 54 | 66.99587 | 32.62763 | 129 | 55 | 66.99625 | 32.62710 |
| 130 | 56 | 66.99649 | 32.62668 | 131 | 57 | 66.99687 | 32.62584 | 132 | 58 | 66.99758 | 32.62560 |
| 133 | 59 | 66.99797 | 32.62577 | 134 | 60 | 66.99873 | 32.62582 | 135 | 61 | 66.99926 | 32.62591 |
| 136 | 62 | 66.99973 | 32.62615 | 137 | 63 | 66.99992 | 32.62644 | 138 | 64 | 66.99997 | 32.62701 |
| 139 | 65 | 66.99997 | 32.62749 | 140 | 66 | 66.99997 | 32.62792 | 141 | 67 | 66.99959 | 32.62834 |
| 142 | 68 | 66.99921 | 32.62834 | 143 | 69 | 66.99883 | 32.62834 | 144 | 70 | 66.99845 | 32.62834 |
| 145 | 71 | 66.99811 | 32.62858 | 146 | 72 | 66.99787 | 32.62892 | 147 | 73 | 66.99778 | 32.62930 |
| 148 | 74 | 66.99754 | 32.62987 | 149 | 75 | 66.99740 | 32.63025 | 150 | 76 | 66.99740 | 32.63082 |
| 151 | 77 | 66.99749 | 32.63125 | 152 | 78 | 66.99744 | 32.63172 | 153 | 79 | 66.99759 | 32.63192 |
| 154 | 80 | 66.99768 | 32.63235 | 155 | 81 | 66.99778 | 32.63273 | 156 | 82 | 66.99816 | 32.63264 |
| 157 | 83 | 66.99835 | 32.63216 | 158 | 84 | 66.99864 | 32.63197 | 159 | 85 | 66.99892 | 32.63163 |
| 160 | 86 | 66.99935 | 32.63149 | 161 | 87 | 66.99973 | 32.63125 | 162 | 88 | 66.99992 | 32.63082 |
| 163 | 89 | 67.00071 | 32.62960 | 164 | 1 | 67.01426 | 32.66506 | 165 | 2 | 67.01364 | 32.66673 |
| 166 | 3 | 67.01321 | 32.66742 | 167 | 4 | 67.01289 | 32.66822 | 168 | 5 | 67.01240 | 32.66878 |
| 169 | 6 | 67.01203 | 32.66947 | 170 | 7 | 67.01190 | 32.67002 | 171 | 8 | 67.01147 | 32.67046 |
| 172 | 9 | 67.01116 | 32.67096 | 173 | 10 | 67.01066 | 32.67158 | 174 | 11 | 67.01035 | 32.67220 |
| 175 | 12 | 67.01029 | 32.67164 | 176 | 13 | 67.01023 | 32.67089 | 177 | 14 | 67.01041 | 32.67027 |
| 178 | 15 | 67.01023 | 32.66984 | 179 | 16 | 67.01016 | 32.66897 | 180 | 17 | 67.01041 | 32.66798 |
| 181 | 18 | 67.01078 | 32.66704 | 182 | 19 | 67.01097 | 32.66636 | 183 | 20 | 67.01116 | 32.66568 |
| 184 | 21 | 67.01066 | 32.66543 | 185 | 22 | 67.01016 | 32.66574 | 186 | 23 | 67.00979 | 32.66618 |
| 187 | 24 | 67.00911 | 32.66618 | 188 | 25 | 67.00867 | 32.66661 | 189 | 26 | 67.00818 | 32.66692 |
| 190 | 27 | 67.00780 | 32.66723 | 191 | 28 | 67.00756 | 32.66766 | 192 | 29 | 67.00700 | 32.66798 |
| 193 | 30 | 67.00669 | 32.66847 | 194 | 31 | 67.00631 | 32.66909 | 195 | 32 | 67.00594 | 32.66953 |
| 196 | 33 | 67.00588 | 32.67015 | 197 | 34 | 67.00569 | 32.67077 | 198 | 35 | 67.00520 | 32.67145 |
| 199 | 36 | 67.00526 | 32.67251 | 200 | 37 | 67.00495 | 32.67269 | 201 | 38 | 67.00445 | 32.67145 |
| 202 | 39 | 67.00470 | 32.66996 | 203 | 40 | 67.00532 | 32.66872 | 204 | 41 | 67.00582 | 32.66748 |
| 205 | 42 | 67.00625 | 32.66655 | 206 | 43 | 67.00693 | 32.66524 | 207 | 44 | 67.00706 | 32.66437 |
| 208 | 45 | 67.00693 | 32.66344 | 209 | 46 | 67.00706 | 32.66251 | 210 | 47 | 67.00743 | 32.66202 |
| 211 | 48 | 67.00780 | 32.66115 | 212 | 49 | 67.00842 | 32.66040 | 213 | 50 | 67.00892 | 32.65997 |
| 214 | 51 | 67.00967 | 32.65997 | 215 | 52 | 67.01029 | 32.65997 | 216 | 53 | 67.01091 | 32.66009 |
| 217 | 54 | 67.01159 | 32.66003 | 218 | 55 | 67.01215 | 32.65959 | 219 | 56 | 67.01271 | 32.65910 |
| 220 | 57 | 67.01302 | 32.65953 | 221 | 58 | 67.01339 | 32.66028 | 222 | 59 | 67.01321 | 32.66146 |
| 223 | 60 | 67.01308 | 32.66233 | 224 | 61 | 67.01389 | 32.66344 | 225 | 62 | 67.01426 | 32.66506 |
| 226 | 1 | 67.03663 | 32.47447 | 227 | 2 | 67.03701 | 32.47542 | 228 | 3 | 67.03663 | 32.47550 |
| 229 | 4 | 67.03626 | 32.47637 | 230 | 5 | 67.03606 | 32.47724 | 231 | 6 | 67.03581 | 32.47778 |
| 232 | 7 | 67.03581 | 32.47844 | 233 | 8 | 67.03548 | 32.47935 | 234 | 9 | 67.03527 | 32.48026 |
| 235 | 10 | 67.03510 | 32.48109 | 236 | 11 | 67.03514 | 32.48250 | 237 | 12 | 67.03502 | 32.48308 |
| 238 | 13 | 67.03452 | 32.48366 | 239 | 14 | 67.03423 | 32.48444 | 240 | 15 | 67.03403 | 32.48531 |
| 241 | 16 | 67.03378 | 32.48577 | 242 | 17 | 67.03365 | 32.48626 | 243 | 18 | 67.03332 | 32.48643 |
| 244 | 19 | 67.03295 | 32.48639 | 245 | 20 | 67.03258 | 32.48589 | 246 | 21 | 67.03241 | 32.48548 |
| 247 | 22 | 67.03196 | 32.48573 | 248 | 23 | 67.03113 | 32.48552 | 249 | 24 | 67.03117 | 32.48482 |
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| 253 | 28 | 67.03183 | 32.48068 | 254 | 29 | 67.03204 | 32.47960 | 255 | 30 | 67.03221 | 32.47910 |
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| 259 | 34 | 67.03349 | 32.47517 | 260 | 35 | 67.03407 | 32.47513 | 261 | 36 | 67.03465 | 32.47501 |
| 262 | 37 | 67.03510 | 32.47434 | 263 | 38 | 67.03539 | 32.47356 | 264 | 39 | 67.03618 | 32.47302 |
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| 274 | 8 | 67.03444 | 32.46768 | 275 | 9 | 67.03448 | 32.46681 | 276 | 10 | 67.03448 | 32.46594 |
| 277 | 11 | 67.03465 | 32.46532 | 278 | 12 | 67.03473 | 32.46462 | 279 | 13 | 67.03481 | 32.46400 |
| 280 | 14 | 67.03498 | 32.46325 | 281 | 15 | 67.03514 | 32.46247 | 282 | 16 | 67.03531 | 32.46189 |
| 283 | 17 | 67.03581 | 32.46139 | 284 | 18 | 67.03618 | 32.46271 | 285 | 1 | 67.02619 | 32.56543 |
| 286 | 2 | 67.02613 | 32.56561 | 287 | 3 | 67.02562 | 32.56629 | 288 | 4 | 67.02552 | 32.56688 |
| 289 | 5 | 67.02542 | 32.56713 | 290 | 6 | 67.02562 | 32.56629 | 291 | 7 | 67.02619 | 32.56543 |
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| 295 | 4 | 67.02508 | 32.56809 | 296 | 5 | 67.02511 | 32.56803 | 297 | 1 | 67.02449 | 32.56898 |
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| 322 | 17 | 67.00260 | 32.64139 | 323 | 18 | 67.00220 | 32.64221 | 324 | 19 | 67.00178 | 32.64307 |
| 325 | 20 | 67.00172 | 32.64429 | 326 | 21 | 67.00153 | 32.64493 | 327 | 22 | 67.00098 | 32.64642 |
| 328 | 23 | 67.00065 | 32.64841 | 329 | 24 | 67.00065 | 32.64951 | 330 | 25 | 67.00077 | 32.65122 |
| 331 | 26 | 67.00114 | 32.65189 | 332 | 27 | 67.00153 | 32.65268 | 333 | 28 | 67.00199 | 32.65353 |
| 334 | 29 | 67.00233 | 32.65451 | 335 | 30 | 67.00211 | 32.65625 | 336 | 31 | 67.00211 | 32.65771 |
| 337 | 32 | 67.00220 | 32.65887 | 338 | 33 | 67.00202 | 32.66046 | 339 | 34 | 67.00162 | 32.66132 |
| 340 | 35 | 67.00147 | 32.66186 | 341 | 36 | 67.00101 | 32.66223 | 342 | 37 | 67.00077 | 32.66324 |
| 343 | 38 | 67.00053 | 32.66394 | 344 | 39 | 67.00010 | 32.66421 | 345 | 40 | 66.99931 | 32.66367 |
| 346 | 41 | 66.99931 | 32.66296 | 347 | 42 | 66.99946 | 32.66251 | 348 | 43 | 66.99967 | 32.66147 |
| 349 | 44 | 66.99989 | 32.66086 | 350 | 45 | 67.00022 | 32.65985 | 351 | 46 | 67.00031 | 32.65872 |
| 352 | 47 | 67.00034 | 32.65775 | 353 | 48 | 67.00053 | 32.65710 | 354 | 49 | 67.00040 | 32.65665 |
| 355 | 50 | 67.00071 | 32.65616 | 356 | 51 | 67.00080 | 32.65530 | 357 | 52 | 67.00086 | 32.65457 |
| 358 | 53 | 67.00083 | 32.65387 | 359 | 54 | 67.00056 | 32.65335 | 360 | 55 | 67.00031 | 32.65271 |
| 361 | 56 | 67.00019 | 32.65225 | 362 | 57 | 66.99982 | 32.65173 | 363 | 58 | 66.99949 | 32.65122 |
| 364 | 59 | 66.99918 | 32.65073 | 365 | 60 | 66.99851 | 32.65060 | 366 | 61 | 66.99808 | 32.65091 |
| 367 | 62 | 66.99790 | 32.65167 | 368 | 63 | 66.99775 | 32.65247 | 369 | 64 | 66.99760 | 32.65308 |
| 370 | 65 | 66.99732 | 32.65411 | 371 | 66 | 66.99702 | 32.65497 | 372 | 67 | 66.99625 | 32.65637 |
| 373 | 68 | 66.99577 | 32.65701 | 374 | 69 | 66.99525 | 32.65759 | 375 | 70 | 66.99497 | 32.65790 |
| 376 | 71 | 66.99458 | 32.65793 | 377 | 72 | 66.99406 | 32.65799 | 378 | 73 | 66.99363 | 32.65823 |
| 379 | 74 | 66.99342 | 32.65891 | 380 | 75 | 66.99320 | 32.65942 | 381 | 76 | 66.99262 | 32.66000 |
| 382 | 77 | 66.99201 | 32.66031 | 383 | 78 | 66.99159 | 32.66055 | 384 | 79 | 66.99076 | 32.66077 |
| 385 | 80 | 66.98982 | 32.66116 | 386 | 81 | 66.98917 | 32.66129 | 387 | 82 | 66.98881 | 32.66113 |
| 388 | 83 | 66.98844 | 32.66113 | 389 | 84 | 66.98805 | 32.66162 | 390 | 85 | 66.98783 | 32.66211 |
| 391 | 86 | 66.98731 | 32.66257 | 392 | 87 | 66.98695 | 32.66309 | 393 | 88 | 66.98661 | 32.66363 |
| 394 | 89 | 66.98649 | 32.66425 | 395 | 90 | 66.98609 | 32.66440 | 396 | 91 | 66.98612 | 32.66379 |
| 397 | 92 | 66.98612 | 32.66318 | 398 | 93 | 66.98624 | 32.66248 | 399 | 94 | 66.98637 | 32.66202 |
| 400 | 95 | 66.98661 | 32.66141 | 401 | 96 | 66.98686 | 32.66086 | 402 | 97 | 66.98826 | 32.65979 |
| 403 | 98 | 66.98896 | 32.65912 | 404 | 99 | 66.98960 | 32.65857 | 405 | 100 | 66.99006 | 32.65820 |
| 406 | 101 | 66.99043 | 32.65796 | 407 | 102 | 66.99104 | 32.65735 | 408 | 103 | 66.99146 | 32.65717 |
| 409 | 104 | 66.99186 | 32.65686 | 410 | 105 | 66.99216 | 32.65649 | 411 | 106 | 66.99253 | 32.65619 |
| 412 | 107 | 66.99244 | 32.65434 | 413 | 108 | 66.99250 | 32.65379 | 414 | 109 | 66.99250 | 32.65270 |
| 415 | 110 | 66.99250 | 32.65205 | 416 | 111 | 66.99259 | 32.65086 | 417 | 112 | 66.99281 | 32.65044 |
| 418 | 113 | 66.99360 | 32.64928 | 419 | 114 | 66.99406 | 32.64912 | 420 | 115 | 66.99467 | 32.64876 |
| 421 | 116 | 66.99479 | 32.64830 | 422 | 117 | 66.99525 | 32.64781 | 423 | 118 | 66.99592 | 32.64732 |
| 424 | 119 | 66.99625 | 32.64671 | 425 | 120 | 66.99644 | 32.64620 | 426 | 121 | 66.99686 | 32.64531 |
| 427 | 122 | 66.99702 | 32.64467 | 428 | 123 | 66.99717 | 32.64403 | 429 | 124 | 66.99772 | 32.64372 |
| 430 | 125 | 66.99793 | 32.64354 | 431 | 126 | 66.99789 | 32.64327 | 432 | 127 | 66.99827 | 32.64317 |
| 433 | 128 | 66.99854 | 32.64232 | 434 | 129 | 66.99863 | 32.64171 | 435 | 130 | 66.99873 | 32.64098 |
| 436 | 131 | 66.99882 | 32.64006 | 437 | 132 | 66.99894 | 32.63963 | 438 | 133 | 66.99927 | 32.63933 |
| 439 | 134 | 66.99946 | 32.63954 | 440 | 135 | 66.99952 | 32.63994 | 441 | 136 | 66.99961 | 32.64049 |
| 442 | 137 | 66.99976 | 32.64098 | 443 | 138 | 66.99985 | 32.64147 | 444 | 139 | 67.00001 | 32.64168 |
| 445 | 140 | 67.00037 | 32.64180 | 446 | 141 | 67.00098 | 32.64113 | 447 | 142 | 67.00159 | 32.64061 |
| 448 | 143 | 67.00184 | 32.64000 | 449 | 144 | 67.00230 | 32.63915 | 450 | 145 | 67.00236 | 32.63854 |
| 451 | 146 | 67.00275 | 32.63747 | 452 | 147 | 67.00278 | 32.63695 | 453 | 148 | 67.00288 | 32.63610 |
| 454 | 149 | 67.00309 | 32.63536 | 455 | 150 | 67.00321 | 32.63472 | 456 | 151 | 67.00321 | 32.63390 |
| 457 | 152 | 67.00333 | 32.63317 | 458 | 153 | 67.00339 | 32.63277 | 459 | 154 | 67.00346 | 32.63195 |
| 460 | 155 | 67.00358 | 32.63124 | 461 | 156 | 67.00370 | 32.63057 | 462 | 157 | 67.00397 | 32.62990 |
| 463 | 158 | 67.00443 | 32.62926 | 464 | 159 | 67.00504 | 32.62865 | 465 | 1 | 67.00445 | 32.59676 |
| 466 | 2 | 67.00452 | 32.59669 | 467 | 3 | 67.00456 | 32.59679 | 468 | 4 | 67.00445 | 32.59676 |
| 469 | 1 | 67.03159 | 32.53684 | 470 | 2 | 67.03299 | 32.53623 | 471 | 3 | 67.03472 | 32.53713 |
| 472 | 4 | 67.03505 | 32.53844 | 473 | 5 | 67.03525 | 32.53947 | 474 | 6 | 67.03522 | 32.54057 |
| 475 | 7 | 67.03519 | 32.54222 | 476 | 8 | 67.03495 | 32.54337 | 477 | 9 | 67.03461 | 32.54475 |
| 478 | 10 | 67.03419 | 32.54645 | 479 | 11 | 67.03382 | 32.54779 | 480 | 12 | 67.03334 | 32.54914 |
| 481 | 13 | 67.03315 | 32.54988 | 482 | 14 | 67.03296 | 32.55059 | 483 | 15 | 67.03247 | 32.55212 |
| 484 | 16 | 67.03215 | 32.55304 | 485 | 17 | 67.03211 | 32.55317 | 486 | 18 | 67.03203 | 32.55404 |
| 487 | 19 | 67.03292 | 32.55401 | 488 | 20 | 67.03338 | 32.55364 | 489 | 21 | 67.03399 | 32.55325 |
| 490 | 22 | 67.03449 | 32.55293 | 491 | 23 | 67.03514 | 32.55291 | 492 | 24 | 67.03565 | 32.55343 |
| 493 | 25 | 67.03582 | 32.55400 | 494 | 26 | 67.03574 | 32.55418 | 495 | 27 | 67.03534 | 32.55519 |
| 496 | 28 | 67.03476 | 32.55624 | 497 | 29 | 67.03370 | 32.55716 | 498 | 30 | 67.03267 | 32.55817 |
| 499 | 31 | 67.03181 | 32.55900 | 500 | 32 | 67.03082 | 32.55968 | 501 | 33 | 67.02984 | 32.56020 |
| 502 | 34 | 67.02889 | 32.56053 | 503 | 35 | 67.02858 | 32.56111 | 504 | 36 | 67.02781 | 32.56215 |
| 505 | 37 | 67.02735 | 32.56296 | 506 | 38 | 67.02685 | 32.56392 | 507 | 39 | 67.02642 | 32.56479 |
| 508 | 40 | 67.02613 | 32.56561 | 509 | 41 | 67.02570 | 32.56619 | 510 | 42 | 67.02542 | 32.56713 |
| 511 | 43 | 67.02510 | 32.56805 | 512 | 44 | 67.02433 | 32.56802 | 513 | 45 | 67.02510 | 32.56645 |
| 514 | 46 | 67.02603 | 32.56364 | 515 | 47 | 67.02714 | 32.56075 | 516 | 48 | 67.02788 | 32.55943 |
| 517 | 49 | 67.02817 | 32.55835 | 518 | 50 | 67.02875 | 32.55741 | 519 | 51 | 67.02947 | 32.55606 |
| 520 | 52 | 67.03009 | 32.55477 | 521 | 53 | 67.03053 | 32.55356 | 522 | 54 | 67.03096 | 32.55205 |
| 523 | 55 | 67.03134 | 32.55078 | 524 | 56 | 67.03149 | 32.54969 | 525 | 57 | 67.03163 | 32.54897 |
| 526 | 58 | 67.03173 | 32.54828 | 527 | 59 | 67.03202 | 32.54765 | 528 | 60 | 67.03221 | 32.54683 |
| 529 | 61 | 67.03214 | 32.54594 | 530 | 62 | 67.03223 | 32.54510 | 531 | 63 | 67.03219 | 32.54441 |
| 532 | 64 | 67.03180 | 32.54347 | 533 | 65 | 67.03166 | 32.54253 | 534 | 66 | 67.03154 | 32.54193 |
| 535 | 67 | 67.03132 | 32.54116 | 536 | 68 | 67.03142 | 32.54015 | 537 | 69 | 67.03137 | 32.53972 |
| 538 | 70 | 67.03122 | 32.53914 | 539 | 71 | 67.03101 | 32.53844 | 540 | 72 | 67.03041 | 32.53866 |
| 541 | 73 | 67.03019 | 32.53909 | 542 | 74 | 67.03009 | 32.53953 | 543 | 75 | 67.02957 | 32.53972 |
| 544 | 76 | 67.02904 | 32.53977 | 545 | 77 | 67.02891 | 32.53941 | 546 | 78 | 67.02948 | 32.53900 |
| 547 | 79 | 67.02946 | 32.53831 | 548 | 80 | 67.03028 | 32.53773 | 549 | 81 | 67.03159 | 32.53684 |
| 550 | 1 | 67.02178 | 32.56967 | 551 | 2 | 67.02243 | 32.56973 | 552 | 3 | 67.02276 | 32.56963 |
| 553 | 4 | 67.02242 | 32.56973 | 554 | 5 | 67.02207 | 32.56973 | 555 | 6 | 67.02178 | 32.56967 |
| 556 | 1 | 67.02039 | 32.57050 | 557 | 2 | 67.02012 | 32.57115 | 558 | 3 | 67.02006 | 32.57126 |
| 559 | 4 | 67.02039 | 32.57050 | 560 | 1 | 67.01964 | 32.57511 | 561 | 2 | 67.01966 | 32.57565 |
| 562 | 3 | 67.01966 | 32.57565 | 563 | 4 | 67.01964 | 32.57610 | 564 | 5 | 67.01964 | 32.57626 |
| 565 | 6 | 67.01961 | 32.57684 | 566 | 7 | 67.01956 | 32.57736 | 567 | 8 | 67.01953 | 32.57774 |
| 568 | 9 | 67.01964 | 32.57511 | 569 | 1 | 67.04873 | 32.55470 | 570 | 2 | 67.04988 | 32.55503 |
| 571 | 3 | 67.05008 | 32.55660 | 572 | 4 | 67.05082 | 32.55741 | 573 | 5 | 67.05160 | 32.55814 |
| 574 | 6 | 67.05244 | 32.55876 | 575 | 7 | 67.05331 | 32.55954 | 576 | 8 | 67.05406 | 32.56075 |
| 577 | 9 | 67.05454 | 32.56249 | 578 | 10 | 67.05464 | 32.56452 | 579 | 11 | 67.05430 | 32.56650 |
| 580 | 12 | 67.05358 | 32.56819 | 581 | 13 | 67.05264 | 32.56959 | 582 | 14 | 67.05169 | 32.57088 |
| 583 | 15 | 67.05084 | 32.57221 | 584 | 16 | 67.05009 | 32.57344 | 585 | 17 | 67.04932 | 32.57439 |
| 586 | 18 | 67.04857 | 32.57487 | 587 | 19 | 67.04746 | 32.57508 | 588 | 20 | 67.04817 | 32.57402 |
| 589 | 21 | 67.04842 | 32.57327 | 590 | 22 | 67.04859 | 32.57247 | 591 | 23 | 67.04864 | 32.57167 |
| 592 | 24 | 67.04864 | 32.57087 | 593 | 25 | 67.04859 | 32.57005 | 594 | 26 | 67.04852 | 32.56924 |
| 595 | 27 | 67.04848 | 32.56840 | 596 | 28 | 67.04847 | 32.56754 | 597 | 29 | 67.04844 | 32.56669 |
| 598 | 30 | 67.04829 | 32.56596 | 599 | 31 | 67.04797 | 32.56543 | 600 | 32 | 67.04753 | 32.56516 |
| 601 | 33 | 67.04703 | 32.56508 | 602 | 34 | 67.04654 | 32.56506 | 603 | 35 | 67.04616 | 32.56498 |
| 604 | 36 | 67.04590 | 32.56472 | 605 | 37 | 67.04569 | 32.56432 | 606 | 38 | 67.04541 | 32.56327 |
| 607 | 39 | 67.04499 | 32.56300 | 608 | 40 | 67.04446 | 32.56305 | 609 | 41 | 67.04387 | 32.56412 |
| 610 | 42 | 67.04326 | 32.56492 | 611 | 43 | 67.04265 | 32.56596 | 612 | 44 | 67.04209 | 32.56712 |
| 613 | 45 | 67.04164 | 32.56831 | 614 | 46 | 67.04128 | 32.56938 | 615 | 47 | 67.04100 | 32.57031 |
| 616 | 48 | 67.04073 | 32.57108 | 617 | 49 | 67.04046 | 32.57175 | 618 | 50 | 67.04022 | 32.57236 |
| 619 | 51 | 67.04005 | 32.57299 | 620 | 52 | 67.03998 | 32.57369 | 621 | 53 | 67.03997 | 32.57450 |
| 622 | 54 | 67.03992 | 32.57543 | 623 | 55 | 67.03976 | 32.57639 | 624 | 56 | 67.03948 | 32.57727 |
| 625 | 57 | 67.03916 | 32.57799 | 626 | 58 | 67.03894 | 32.57858 | 627 | 59 | 67.03893 | 32.57906 |
| 628 | 60 | 67.03916 | 32.57950 | 629 | 61 | 67.03950 | 32.57993 | 630 | 62 | 67.03973 | 32.58036 |
| 631 | 63 | 67.03974 | 32.58078 | 632 | 64 | 67.03951 | 32.58123 | 633 | 65 | 67.03916 | 32.58174 |
| 634 | 66 | 67.03880 | 32.58238 | 635 | 67 | 67.03849 | 32.58314 | 636 | 68 | 67.03824 | 32.58399 |
| 637 | 69 | 67.03807 | 32.58484 | 638 | 70 | 67.03804 | 32.58563 | 639 | 71 | 67.03816 | 32.58639 |
| 640 | 72 | 67.03842 | 32.58728 | 641 | 73 | 67.03866 | 32.58844 | 642 | 74 | 67.03880 | 32.58986 |
| 643 | 75 | 67.03881 | 32.59136 | 644 | 76 | 67.03881 | 32.59272 | 645 | 77 | 67.03889 | 32.59382 |
| 646 | 78 | 67.03914 | 32.59459 | 647 | 79 | 67.03958 | 32.59512 | 648 | 80 | 67.04010 | 32.59553 |
| 649 | 81 | 67.04057 | 32.59603 | 650 | 82 | 67.04085 | 32.59675 | 651 | 83 | 67.04094 | 32.59779 |
| 652 | 84 | 67.04081 | 32.59922 | 653 | 85 | 67.04046 | 32.60096 | 654 | 86 | 67.03980 | 32.60291 |
| 655 | 87 | 67.03886 | 32.60479 | 656 | 88 | 67.03773 | 32.60652 | 657 | 89 | 67.03658 | 32.60800 |
| 658 | 90 | 67.03551 | 32.60921 | 659 | 91 | 67.03476 | 32.61019 | 660 | 92 | 67.03421 | 32.61106 |
| 661 | 93 | 67.03426 | 32.61217 | 662 | 94 | 67.03423 | 32.61346 | 663 | 95 | 67.03403 | 32.61484 |
| 664 | 96 | 67.03359 | 32.61625 | 665 | 97 | 67.03290 | 32.61723 | 666 | 98 | 67.03238 | 32.61834 |
| 667 | 99 | 67.03215 | 32.61934 | 668 | 100 | 67.03237 | 32.62030 | 669 | 101 | 67.03314 | 32.62062 |
| 670 | 102 | 67.03418 | 32.62102 | 671 | 103 | 67.03501 | 32.62201 | 672 | 104 | 67.03523 | 32.62348 |
| 673 | 105 | 67.03490 | 32.62522 | 674 | 106 | 67.03413 | 32.62704 | 675 | 107 | 67.03327 | 32.62889 |
| 676 | 108 | 67.03244 | 32.63068 | 677 | 109 | 67.03180 | 32.63239 | 678 | 110 | 67.03140 | 32.63409 |
| 679 | 111 | 67.03123 | 32.63589 | 680 | 112 | 67.03106 | 32.63782 | 681 | 113 | 67.03076 | 32.63986 |
| 682 | 114 | 67.03018 | 32.64179 | 683 | 115 | 67.02933 | 32.64345 | 684 | 116 | 67.02823 | 32.64464 |
| 685 | 117 | 67.02690 | 32.64533 | 686 | 118 | 67.02540 | 32.64556 | 687 | 119 | 67.02381 | 32.64547 |
| 688 | 120 | 67.02225 | 32.64517 | 689 | 121 | 67.02076 | 32.64481 | 690 | 122 | 67.01933 | 32.64444 |
| 691 | 123 | 67.01789 | 32.64414 | 692 | 124 | 67.01649 | 32.64386 | 693 | 125 | 67.01510 | 32.64323 |
| 694 | 126 | 67.01383 | 32.64302 | 695 | 127 | 67.01278 | 32.64063 | 696 | 128 | 67.01126 | 32.63967 |
| 697 | 129 | 67.01007 | 32.63889 | 698 | 130 | 67.01062 | 32.63553 | 699 | 131 | 67.00963 | 32.63365 |
| 700 | 132 | 67.00955 | 32.63110 | 701 | 133 | 67.00954 | 32.63002 | 702 | 134 | 67.00983 | 32.62948 |
| 703 | 135 | 67.01044 | 32.62957 | 704 | 136 | 67.01103 | 32.62976 | 705 | 137 | 67.01152 | 32.62943 |
| 706 | 138 | 67.01201 | 32.62888 | 707 | 139 | 67.01250 | 32.62792 | 708 | 140 | 67.01311 | 32.62691 |
| 709 | 141 | 67.01373 | 32.62566 | 710 | 142 | 67.01463 | 32.62408 | 711 | 143 | 67.01555 | 32.62192 |
| 712 | 144 | 67.01654 | 32.61935 | 713 | 145 | 67.01753 | 32.61667 | 714 | 146 | 67.01850 | 32.61423 |
| 715 | 147 | 67.01941 | 32.61211 | 716 | 148 | 67.02021 | 32.61035 | 717 | 149 | 67.02092 | 32.60877 |
| 718 | 150 | 67.02156 | 32.60727 | 719 | 151 | 67.02223 | 32.60561 | 720 | 152 | 67.02292 | 32.60385 |
| 721 | 153 | 67.02371 | 32.60196 | 722 | 154 | 67.02457 | 32.60002 | 723 | 155 | 67.02517 | 32.59837 |
| 724 | 156 | 67.02546 | 32.59701 | 725 | 157 | 67.02670 | 32.59530 | 726 | 158 | 67.02752 | 32.59414 |
| 727 | 159 | 67.02799 | 32.59355 | 728 | 160 | 67.02875 | 32.59400 | 729 | 161 | 67.02944 | 32.59564 |
| 730 | 162 | 67.03037 | 32.59492 | 731 | 163 | 67.03148 | 32.59375 | 732 | 164 | 67.03275 | 32.59179 |
| 733 | 165 | 67.03408 | 32.58930 | 734 | 166 | 67.03529 | 32.58674 | 735 | 167 | 67.03628 | 32.58434 |
| 736 | 168 | 67.03699 | 32.58219 | 737 | 169 | 67.03753 | 32.58013 | 738 | 170 | 67.03795 | 32.57809 |
| 739 | 171 | 67.03836 | 32.57610 | 740 | 172 | 67.03878 | 32.57434 | 741 | 173 | 67.03924 | 32.57279 |
| 742 | 174 | 67.03972 | 32.57137 | 743 | 175 | 67.04022 | 32.56992 | 744 | 176 | 67.04075 | 32.56841 |
| 745 | 177 | 67.04137 | 32.56683 | 746 | 178 | 67.04210 | 32.56528 | 747 | 179 | 67.04294 | 32.56384 |
| 748 | 180 | 67.04386 | 32.56263 | 749 | 181 | 67.04479 | 32.56162 | 750 | 182 | 67.04564 | 32.56069 |
| 751 | 183 | 67.04635 | 32.55967 | 752 | 184 | 67.04694 | 32.55857 | 753 | 185 | 67.04748 | 32.55742 |
| 754 | 186 | 67.04802 | 32.55646 | 755 | 187 | 67.04873 | 32.55470 | 756 | 188 | 67.03442 | 32.60732 |
| 757 | 189 | 67.03467 | 32.60684 | 758 | 190 | 67.03515 | 32.60638 | 759 | 191 | 67.03553 | 32.60599 |
| 760 | 192 | 67.03575 | 32.60582 | 761 | 193 | 67.03598 | 32.60550 | 762 | 194 | 67.03627 | 32.60519 |
| 763 | 195 | 67.03639 | 32.60490 | 764 | 196 | 67.03656 | 32.60456 | 765 | 197 | 67.03677 | 32.60420 |
| 766 | 198 | 67.03687 | 32.60380 | 767 | 199 | 67.03695 | 32.60349 | 768 | 200 | 67.03704 | 32.60301 |
| 769 | 201 | 67.03714 | 32.60266 | 770 | 202 | 67.03718 | 32.60220 | 771 | 203 | 67.03727 | 32.60184 |
| 772 | 204 | 67.03732 | 32.60141 | 773 | 205 | 67.03743 | 32.60082 | 774 | 206 | 67.03744 | 32.60004 |
| 775 | 207 | 67.03760 | 32.59940 | 776 | 208 | 67.03771 | 32.59886 | 777 | 209 | 67.03791 | 32.59825 |
| 778 | 210 | 67.03789 | 32.59795 | 779 | 211 | 67.03777 | 32.59769 | 780 | 212 | 67.03751 | 32.59772 |
| 781 | 213 | 67.03737 | 32.59803 | 782 | 214 | 67.03707 | 32.59818 | 783 | 215 | 67.03683 | 32.59772 |
| 784 | 216 | 67.03664 | 32.59734 | 785 | 217 | 67.03644 | 32.59757 | 786 | 218 | 67.03641 | 32.59783 |
| 787 | 219 | 67.03655 | 32.59823 | 788 | 220 | 67.03669 | 32.59862 | 789 | 221 | 67.03672 | 32.59897 |
| 790 | 222 | 67.03664 | 32.59930 | 791 | 223 | 67.03646 | 32.59914 | 792 | 224 | 67.03624 | 32.59880 |
| 793 | 225 | 67.03609 | 32.59849 | 794 | 226 | 67.03598 | 32.59811 | 795 | 227 | 67.03572 | 32.59806 |
| 796 | 228 | 67.03559 | 32.59834 | 797 | 229 | 67.03544 | 32.59868 | 798 | 230 | 67.03538 | 32.59903 |
| 799 | 231 | 67.03528 | 32.59943 | 800 | 232 | 67.03527 | 32.59984 | 801 | 233 | 67.03522 | 32.60004 |
| 802 | 234 | 67.03487 | 32.60017 | 803 | 235 | 67.03478 | 32.59968 | 804 | 236 | 67.03478 | 32.59913 |
| 805 | 237 | 67.03485 | 32.59877 | 806 | 238 | 67.03491 | 32.59846 | 807 | 239 | 67.03501 | 32.59775 |
| 808 | 240 | 67.03487 | 32.59755 | 809 | 241 | 67.03464 | 32.59777 | 810 | 242 | 67.03442 | 32.59734 |
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| 814 | 246 | 67.03462 | 32.59535 | 815 | 247 | 67.03479 | 32.59479 | 816 | 248 | 67.03496 | 32.59444 |
| 817 | 249 | 67.03494 | 32.59404 | 818 | 250 | 67.03498 | 32.59374 | 819 | 251 | 67.03488 | 32.59343 |
| 820 | 252 | 67.03464 | 32.59314 | 821 | 253 | 67.03434 | 32.59311 | 822 | 254 | 67.03399 | 32.59312 |
| 823 | 255 | 67.03374 | 32.59331 | 824 | 256 | 67.03336 | 32.59350 | 825 | 257 | 67.03312 | 32.59359 |
| 826 | 258 | 67.03292 | 32.59390 | 827 | 259 | 67.03277 | 32.59416 | 828 | 260 | 67.03248 | 32.59445 |
| 829 | 261 | 67.03226 | 32.59468 | 830 | 262 | 67.03200 | 32.59484 | 831 | 263 | 67.03187 | 32.59518 |
| 832 | 264 | 67.03169 | 32.59562 | 833 | 265 | 67.03140 | 32.59596 | 834 | 266 | 67.03106 | 32.59619 |
| 835 | 267 | 67.03090 | 32.59644 | 836 | 268 | 67.03053 | 32.59641 | 837 | 269 | 67.03019 | 32.59686 |
| 838 | 270 | 67.03007 | 32.59718 | 839 | 271 | 67.03005 | 32.59746 | 840 | 272 | 67.02998 | 32.59792 |
| 841 | 273 | 67.03002 | 32.59842 | 842 | 274 | 67.03009 | 32.59874 | 843 | 275 | 67.03035 | 32.59928 |
| 844 | 276 | 67.03063 | 32.59942 | 845 | 277 | 67.03103 | 32.59960 | 846 | 278 | 67.03106 | 32.60001 |
| 847 | 279 | 67.03103 | 32.60031 | 848 | 280 | 67.03084 | 32.60059 | 849 | 281 | 67.03078 | 32.60116 |
| 850 | 282 | 67.03075 | 32.60152 | 851 | 283 | 67.03073 | 32.60190 | 852 | 284 | 67.03100 | 32.60230 |
| 853 | 285 | 67.03133 | 32.60243 | 854 | 286 | 67.03161 | 32.60252 | 855 | 287 | 67.03191 | 32.60274 |
| 856 | 288 | 67.03203 | 32.60309 | 857 | 289 | 67.03187 | 32.60335 | 858 | 290 | 67.03175 | 32.60380 |
| 859 | 291 | 67.03152 | 32.60414 | 860 | 292 | 67.03124 | 32.60449 | 861 | 293 | 67.03112 | 32.60491 |
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| 865 | 297 | 67.03269 | 32.60451 | 866 | 298 | 67.03306 | 32.60488 | 867 | 299 | 67.03323 | 32.60508 |
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| 871 | 303 | 67.03376 | 32.60706 | 872 | 304 | 67.03382 | 32.60753 | 873 | 305 | 67.03410 | 32.60786 |
| 874 | 306 | 67.03442 | 32.60732 | 875 | 307 | 67.01554 | 32.63807 | 876 | 308 | 67.01525 | 32.63711 |
| 877 | 309 | 67.01496 | 32.63669 | 878 | 310 | 67.01465 | 32.63640 | 879 | 311 | 67.01496 | 32.63585 |
| 880 | 312 | 67.01525 | 32.63543 | 881 | 313 | 67.01538 | 32.63494 | 882 | 314 | 67.01564 | 32.63384 |
| 883 | 315 | 67.01577 | 32.63305 | 884 | 316 | 67.01572 | 32.63208 | 885 | 317 | 67.01567 | 32.63146 |
| 886 | 318 | 67.01517 | 32.63146 | 887 | 319 | 67.01467 | 32.63201 | 888 | 320 | 67.01454 | 32.63263 |
| 889 | 321 | 67.01381 | 32.63274 | 890 | 322 | 67.01352 | 32.63292 | 891 | 323 | 67.01316 | 32.63334 |
| 892 | 324 | 67.01279 | 32.63405 | 893 | 325 | 67.01276 | 32.63478 | 894 | 326 | 67.01261 | 32.63520 |
| 895 | 327 | 67.01242 | 32.63572 | 896 | 328 | 67.01237 | 32.63624 | 897 | 329 | 67.01258 | 32.63716 |
| 898 | 330 | 67.01292 | 32.63763 | 899 | 331 | 67.01347 | 32.63802 | 900 | 332 | 67.01399 | 32.63807 |
| 901 | 333 | 67.01433 | 32.63786 | 902 | 334 | 67.01467 | 32.63760 | 903 | 335 | 67.01496 | 32.63771 |
| 904 | 336 | 67.01525 | 32.63820 | 905 | 337 | 67.01538 | 32.63844 | 906 | 338 | 67.01554 | 32.63807 |
| 907 | 1 | 67.02452 | 32.48542 | 908 | 2 | 67.02464 | 32.48549 | 909 | 3 | 67.02479 | 32.48556 |
| 910 | 4 | 67.02481 | 32.48600 | 911 | 5 | 67.02481 | 32.48637 | 912 | 6 | 67.02459 | 32.48681 |
| 913 | 7 | 67.02432 | 32.48722 | 914 | 8 | 67.02413 | 32.48749 | 915 | 9 | 67.02403 | 32.48796 |
| 916 | 10 | 67.02379 | 32.48842 | 917 | 11 | 67.02354 | 32.48874 | 918 | 12 | 67.02315 | 32.48913 |
| 919 | 13 | 67.02286 | 32.48945 | 920 | 14 | 67.02247 | 32.48971 | 921 | 15 | 67.02247 | 32.49032 |
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| 925 | 19 | 67.02257 | 32.49250 | 926 | 20 | 67.02249 | 32.49347 | 927 | 21 | 67.02266 | 32.49401 |
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| 931 | 25 | 67.02237 | 32.49645 | 932 | 26 | 67.02239 | 32.49682 | 933 | 27 | 67.02271 | 32.49706 |
| 934 | 28 | 67.02293 | 32.49735 | 935 | 29 | 67.02305 | 32.49767 | 936 | 30 | 67.02320 | 32.49828 |
| 937 | 31 | 67.02332 | 32.49875 | 938 | 32 | 67.02335 | 32.49921 | 939 | 33 | 67.02327 | 32.49987 |
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| 946 | 40 | 67.02205 | 32.50331 | 947 | 41 | 67.02220 | 32.50377 | 948 | 42 | 67.02239 | 32.50446 |
| 949 | 43 | 67.02254 | 32.50497 | 950 | 44 | 67.02247 | 32.50536 | 951 | 45 | 67.02247 | 32.50609 |
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| 958 | 52 | 67.02066 | 32.51076 | 959 | 53 | 67.02052 | 32.51124 | 960 | 54 | 67.02054 | 32.51232 |
| 961 | 55 | 67.02059 | 32.51276 | 962 | 56 | 67.02061 | 32.51349 | 963 | 57 | 67.02069 | 32.51408 |
| 964 | 58 | 67.02100 | 32.51525 | 965 | 59 | 67.02103 | 32.51620 | 966 | 60 | 67.02120 | 32.51691 |
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| 1018 | 112 | 67.03809 | 32.50846 | 1019 | 113 | 67.03865 | 32.50783 | 1020 | 114 | 67.03875 | 32.50763 |
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| 1234 | 328 | 67.00206 | 32.59526 | 1235 | 329 | 67.00193 | 32.59527 | 1236 | 330 | 67.00182 | 32.59538 |
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| 1252 | 346 | 66.99555 | 32.60409 | 1253 | 347 | 66.99522 | 32.60532 | 1254 | 348 | 66.99431 | 32.60812 |
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| 1273 | 367 | 66.98352 | 32.63350 | 1274 | 368 | 66.98220 | 32.63367 | 1275 | 369 | 66.98253 | 32.63482 |
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| 1282 | 376 | 66.97981 | 32.64331 | 1283 | 377 | 66.97841 | 32.64578 | 1284 | 378 | 66.97907 | 32.64627 |
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| 1297 | 391 | 66.97544 | 32.65459 | 1298 | 392 | 66.97487 | 32.65492 | 1299 | 393 | 66.97404 | 32.65492 |
| 1300 | 394 | 66.97314 | 32.65533 | 1301 | 395 | 66.97264 | 32.65558 | 1302 | 396 | 66.97198 | 32.65558 |
| 1303 | 397 | 66.97207 | 32.65509 | 1304 | 398 | 66.97198 | 32.65393 | 1305 | 399 | 66.97182 | 32.65311 |
| 1306 | 400 | 66.97165 | 32.65237 | 1307 | 401 | 66.97133 | 32.65196 | 1308 | 402 | 66.97083 | 32.65196 |
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| 1315 | 409 | 66.96712 | 32.65459 | 1316 | 410 | 66.96638 | 32.65468 | 1317 | 411 | 66.96564 | 32.65500 |
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| 1324 | 418 | 66.96078 | 32.64965 | 1325 | 419 | 66.96045 | 32.64874 | 1326 | 420 | 66.96012 | 32.64775 |
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| 1354 | 448 | 66.96597 | 32.60574 | 1355 | 449 | 66.96630 | 32.60409 | 1356 | 450 | 66.96721 | 32.60335 |
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| 1393 | 487 | 66.98087 | 32.58622 | 1394 | 488 | 66.98104 | 32.58559 | 1395 | 489 | 66.98133 | 32.58519 |
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| 1414 | 508 | 66.98724 | 32.57902 | 1415 | 509 | 66.98761 | 32.57868 | 1416 | 510 | 66.98814 | 32.57821 |
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| 1423 | 517 | 66.99105 | 32.57621 | 1424 | 518 | 66.99164 | 32.57565 | 1425 | 519 | 66.99181 | 32.57538 |
| 1426 | 520 | 66.99232 | 32.57512 | 1427 | 521 | 66.99305 | 32.57518 | 1428 | 522 | 66.99370 | 32.57429 |
| 1429 | 523 | 66.99402 | 32.57369 | 1430 | 524 | 66.99426 | 32.57305 | 1431 | 525 | 66.99443 | 32.57262 |
| 1432 | 526 | 66.99498 | 32.57250 | 1433 | 527 | 66.99532 | 32.57206 | 1434 | 528 | 66.99561 | 32.57157 |
| 1435 | 529 | 66.99591 | 32.57118 | 1436 | 530 | 66.99605 | 32.57096 | 1437 | 531 | 66.99637 | 32.57040 |
| 1438 | 532 | 66.99652 | 32.56991 | 1439 | 533 | 66.99669 | 32.56938 | 1440 | 534 | 66.99684 | 32.56889 |
| 1441 | 535 | 66.99701 | 32.56855 | 1442 | 536 | 66.99740 | 32.56752 | 1443 | 537 | 66.99752 | 32.56696 |
| 1444 | 538 | 66.99771 | 32.56654 | 1445 | 539 | 66.99815 | 32.56586 | 1446 | 540 | 66.99842 | 32.56515 |
| 1447 | 541 | 66.99857 | 32.56488 | 1448 | 542 | 66.99918 | 32.56363 | 1449 | 543 | 66.99952 | 32.56275 |
| 1450 | 544 | 66.99981 | 32.56216 | 1451 | 545 | 67.00013 | 32.56162 | 1452 | 546 | 67.00038 | 32.56114 |
| 1453 | 547 | 67.00125 | 32.55982 | 1454 | 548 | 67.00147 | 32.55933 | 1455 | 549 | 67.00196 | 32.55823 |
| 1456 | 550 | 67.00213 | 32.55767 | 1457 | 551 | 67.00230 | 32.55713 | 1458 | 552 | 67.00245 | 32.55660 |
| 1459 | 553 | 67.00287 | 32.55569 | 1460 | 554 | 67.00313 | 32.55506 | 1461 | 555 | 67.00343 | 32.55462 |
| 1462 | 556 | 67.00409 | 32.55381 | 1463 | 557 | 67.00448 | 32.55347 | 1464 | 558 | 67.00521 | 32.55269 |
| 1465 | 559 | 67.00577 | 32.55196 | 1466 | 560 | 67.00616 | 32.55130 | 1467 | 561 | 67.00660 | 32.55074 |
| 1468 | 562 | 67.00694 | 32.55008 | 1469 | 563 | 67.00714 | 32.54939 | 1470 | 564 | 67.00782 | 32.54849 |
| 1471 | 565 | 67.00787 | 32.54793 | 1472 | 566 | 67.00785 | 32.54742 | 1473 | 567 | 67.00782 | 32.54705 |
| 1474 | 568 | 67.00802 | 32.54639 | 1475 | 569 | 67.00811 | 32.54595 | 1476 | 570 | 67.00846 | 32.54534 |
| 1477 | 571 | 67.00868 | 32.54495 | 1478 | 572 | 67.00909 | 32.54444 | 1479 | 573 | 67.00951 | 32.54405 |
| 1480 | 574 | 67.00985 | 32.54376 | 1481 | 575 | 67.01063 | 32.54282 | 1482 | 576 | 67.01104 | 32.54211 |
| 1483 | 577 | 67.01143 | 32.54147 | 1484 | 578 | 67.01153 | 32.54106 | 1485 | 579 | 67.01180 | 32.54045 |
| 1486 | 580 | 67.01212 | 32.53998 | 1487 | 581 | 67.01239 | 32.53954 | 1488 | 582 | 67.01297 | 32.53857 |
| 1489 | 583 | 67.01339 | 32.53774 | 1490 | 584 | 67.01358 | 32.53737 | 1491 | 585 | 67.01402 | 32.53613 |
| 1492 | 586 | 67.01427 | 32.53600 | 1493 | 587 | 67.01444 | 32.53559 | 1494 | 588 | 67.01478 | 32.53478 |
| 1495 | 589 | 67.01505 | 32.53417 | 1496 | 590 | 67.01514 | 32.53369 | 1497 | 591 | 67.01524 | 32.53290 |
| 1498 | 592 | 67.01549 | 32.53254 | 1499 | 593 | 67.01551 | 32.53217 | 1500 | 594 | 67.01563 | 32.53159 |
| 1501 | 595 | 67.01568 | 32.53117 | 1502 | 596 | 67.01595 | 32.53085 | 1503 | 597 | 67.01617 | 32.53061 |
| 1504 | 598 | 67.01671 | 32.52981 | 1505 | 599 | 67.01727 | 32.52957 | 1506 | 600 | 67.01744 | 32.52918 |
| 1507 | 601 | 67.01746 | 32.52864 | 1508 | 602 | 67.01749 | 32.52786 | 1509 | 603 | 67.01759 | 32.52734 |
| 1510 | 604 | 67.01766 | 32.52673 | 1511 | 605 | 67.01763 | 32.52605 | 1512 | 606 | 67.01776 | 32.52529 |
| 1513 | 607 | 67.01776 | 32.52476 | 1514 | 608 | 67.01807 | 32.52405 | 1515 | 609 | 67.01837 | 32.52322 |
| 1516 | 610 | 67.01876 | 32.52276 | 1517 | 611 | 67.01900 | 32.52234 | 1518 | 612 | 67.01920 | 32.52180 |
| 1519 | 613 | 67.01925 | 32.52131 | 1520 | 614 | 67.01949 | 32.52044 | 1521 | 615 | 67.01973 | 32.51980 |
| 1522 | 616 | 67.01956 | 32.51907 | 1523 | 617 | 67.01969 | 32.51868 | 1524 | 618 | 67.01944 | 32.51770 |
| 1525 | 619 | 67.01912 | 32.51724 | 1526 | 620 | 67.01895 | 32.51690 | 1527 | 621 | 67.01883 | 32.51663 |
| 1528 | 622 | 67.01856 | 32.51641 | 1529 | 623 | 67.01812 | 32.51629 | 1530 | 624 | 67.01805 | 32.51624 |
| 1531 | 625 | 67.01778 | 32.51624 | 1532 | 626 | 67.01746 | 32.51648 | 1533 | 627 | 67.01720 | 32.51677 |
| 1534 | 628 | 67.01702 | 32.51712 | 1535 | 629 | 67.01685 | 32.51741 | 1536 | 630 | 67.01656 | 32.51778 |
| 1537 | 631 | 67.01644 | 32.51821 | 1538 | 632 | 67.01605 | 32.51900 | 1539 | 633 | 67.01573 | 32.51946 |
| 1540 | 634 | 67.01563 | 32.51987 | 1541 | 635 | 67.01524 | 32.52044 | 1542 | 636 | 67.01471 | 32.52105 |
| 1543 | 637 | 67.01451 | 32.52131 | 1544 | 638 | 67.01424 | 32.52193 | 1545 | 639 | 67.01341 | 32.52273 |
| 1546 | 640 | 67.01300 | 32.52324 | 1547 | 641 | 67.01278 | 32.52395 | 1548 | 642 | 67.01248 | 32.52451 |
| 1549 | 643 | 67.01224 | 32.52512 | 1550 | 644 | 67.01173 | 32.52566 | 1551 | 645 | 67.01068 | 32.52715 |
| 1552 | 646 | 67.01019 | 32.52734 | 1553 | 647 | 67.00997 | 32.52774 | 1554 | 648 | 67.00963 | 32.52813 |
| 1555 | 649 | 67.00909 | 32.52881 | 1556 | 650 | 67.00887 | 32.52935 | 1557 | 651 | 67.00872 | 32.52976 |
| 1558 | 652 | 67.00872 | 32.53042 | 1559 | 653 | 67.00870 | 32.53101 | 1560 | 654 | 67.00865 | 32.53169 |
| 1561 | 655 | 67.00838 | 32.53240 | 1562 | 656 | 67.00814 | 32.53267 | 1563 | 657 | 67.00782 | 32.53323 |
| 1564 | 658 | 67.00767 | 32.53379 | 1565 | 659 | 67.00750 | 32.53418 | 1566 | 660 | 67.00726 | 32.53447 |
| 1567 | 661 | 67.00694 | 32.53506 | 1568 | 662 | 67.00658 | 32.53557 | 1569 | 663 | 67.00636 | 32.53611 |
| 1570 | 664 | 67.00621 | 32.53638 | 1571 | 665 | 67.00599 | 32.53701 | 1572 | 666 | 67.00575 | 32.53760 |
| 1573 | 667 | 67.00553 | 32.53809 | 1574 | 668 | 67.00531 | 32.53862 | 1575 | 669 | 67.00511 | 32.53906 |
| 1576 | 670 | 67.00482 | 32.53928 | 1577 | 671 | 67.00470 | 32.53950 | 1578 | 672 | 67.00443 | 32.54004 |
| 1579 | 673 | 67.00435 | 32.54028 | 1580 | 674 | 67.00401 | 32.54075 | 1581 | 675 | 67.00372 | 32.54111 |
| 1582 | 676 | 67.00352 | 32.54138 | 1583 | 677 | 67.00345 | 32.54163 | 1584 | 678 | 67.00321 | 32.54199 |
| 1585 | 679 | 67.00294 | 32.54231 | 1586 | 680 | 67.00247 | 32.54253 | 1587 | 681 | 67.00218 | 32.54272 |
| 1588 | 682 | 67.00196 | 32.54292 | 1589 | 683 | 67.00152 | 32.54418 | 1590 | 684 | 67.00128 | 32.54469 |
| 1591 | 685 | 67.00079 | 32.54552 | 1592 | 686 | 67.00030 | 32.54628 | 1593 | 687 | 67.00001 | 32.54698 |
| 1594 | 688 | 66.99969 | 32.54786 | 1595 | 689 | 66.99940 | 32.54855 | 1596 | 690 | 66.99913 | 32.54930 |
| 1597 | 691 | 66.99872 | 32.54974 | 1598 | 692 | 66.99825 | 32.55004 | 1599 | 693 | 66.99806 | 32.55033 |
| 1600 | 694 | 66.99796 | 32.55072 | 1601 | 695 | 66.99784 | 32.55121 | 1602 | 696 | 66.99774 | 32.55189 |
| 1603 | 697 | 66.99774 | 32.55216 | 1604 | 698 | 66.99776 | 32.55272 | 1605 | 699 | 66.99774 | 32.55318 |
| 1606 | 700 | 66.99757 | 32.55387 | 1607 | 701 | 66.99747 | 32.55448 | 1608 | 702 | 66.99730 | 32.55541 |
| 1609 | 703 | 66.99708 | 32.55594 | 1610 | 704 | 66.99666 | 32.55668 | 1611 | 705 | 66.99618 | 32.55680 |
| 1612 | 706 | 66.99586 | 32.55685 | 1613 | 707 | 66.99549 | 32.55665 | 1614 | 708 | 66.99525 | 32.55646 |
| 1615 | 709 | 66.99498 | 32.55636 | 1616 | 710 | 66.99474 | 32.55650 | 1617 | 711 | 66.99432 | 32.55685 |
| 1618 | 712 | 66.99398 | 32.55692 | 1619 | 713 | 66.99371 | 32.55709 | 1620 | 714 | 66.99352 | 32.55748 |
| 1621 | 715 | 66.99327 | 32.55775 | 1622 | 716 | 66.99295 | 32.55802 | 1623 | 717 | 66.99266 | 32.55838 |
| 1624 | 718 | 66.99239 | 32.55853 | 1625 | 719 | 66.99208 | 32.55865 | 1626 | 720 | 66.99195 | 32.55890 |
| 1627 | 721 | 66.99178 | 32.55929 | 1628 | 722 | 66.99146 | 32.55960 | 1629 | 723 | 66.99132 | 32.55978 |
| 1630 | 724 | 66.99059 | 32.55980 | 1631 | 725 | 66.99024 | 32.55968 | 1632 | 726 | 66.98985 | 32.55956 |
| 1633 | 727 | 66.98924 | 32.55973 | 1634 | 728 | 66.98888 | 32.55985 | 1635 | 729 | 66.98807 | 32.56029 |
| 1636 | 730 | 66.98758 | 32.56061 | 1637 | 731 | 66.98702 | 32.56090 | 1638 | 732 | 66.98663 | 32.56107 |
| 1639 | 733 | 66.98605 | 32.56141 | 1640 | 734 | 66.98590 | 32.56190 | 1641 | 735 | 66.98556 | 32.56234 |
| 1642 | 736 | 66.98544 | 32.56271 | 1643 | 737 | 66.98524 | 32.56307 | 1644 | 738 | 66.98512 | 32.56346 |
| 1645 | 739 | 66.98519 | 32.56405 | 1646 | 740 | 66.98529 | 32.56449 | 1647 | 741 | 66.98551 | 32.56485 |
| 1648 | 742 | 66.98573 | 32.56515 | 1649 | 743 | 66.98580 | 32.56551 | 1650 | 744 | 66.98580 | 32.56590 |
| 1651 | 745 | 66.98575 | 32.56620 | 1652 | 746 | 66.98565 | 32.56666 | 1653 | 747 | 66.98544 | 32.56681 |
| 1654 | 748 | 66.98514 | 32.56678 | 1655 | 749 | 66.98485 | 32.56639 | 1656 | 750 | 66.98468 | 32.56600 |
| 1657 | 751 | 66.98461 | 32.56568 | 1658 | 752 | 66.98463 | 32.56529 | 1659 | 753 | 66.98461 | 32.56483 |
| 1660 | 754 | 66.98453 | 32.56439 | 1661 | 755 | 66.98439 | 32.56412 | 1662 | 756 | 66.98399 | 32.56402 |
| 1663 | 757 | 66.98360 | 32.56407 | 1664 | 758 | 66.98341 | 32.56434 | 1665 | 759 | 66.98329 | 32.56468 |
| 1666 | 760 | 66.98312 | 32.56527 | 1667 | 761 | 66.98297 | 32.56532 | 1668 | 762 | 66.98304 | 32.56598 |
| 1669 | 763 | 66.98292 | 32.56629 | 1670 | 764 | 66.98287 | 32.56727 | 1671 | 765 | 66.98282 | 32.56771 |
| 1672 | 766 | 66.98292 | 32.56798 | 1673 | 767 | 66.98304 | 32.56854 | 1674 | 768 | 66.98341 | 32.56869 |
| 1675 | 769 | 66.98360 | 32.56883 | 1676 | 770 | 66.98378 | 32.56917 | 1677 | 771 | 66.98380 | 32.56961 |
| 1678 | 772 | 66.98368 | 32.56998 | 1679 | 773 | 66.98331 | 32.57066 | 1680 | 774 | 66.98285 | 32.57105 |
| 1681 | 775 | 66.98202 | 32.57124 | 1682 | 776 | 66.98155 | 32.57104 | 1683 | 777 | 66.98092 | 32.57068 |
| 1684 | 778 | 66.98048 | 32.57031 | 1685 | 779 | 66.98009 | 32.56997 | 1686 | 780 | 66.97987 | 32.56972 |
| 1687 | 781 | 66.97963 | 32.56992 | 1688 | 782 | 66.97941 | 32.57036 | 1689 | 783 | 66.97931 | 32.57087 |
| 1690 | 784 | 66.97911 | 32.57155 | 1691 | 785 | 66.97892 | 32.57258 | 1692 | 786 | 66.97872 | 32.57331 |
| 1693 | 787 | 66.97853 | 32.57380 | 1694 | 788 | 66.97816 | 32.57414 | 1695 | 789 | 66.97775 | 32.57458 |
| 1696 | 790 | 66.97718 | 32.57512 | 1697 | 791 | 66.97667 | 32.57519 | 1698 | 792 | 66.97633 | 32.57507 |
| 1699 | 793 | 66.97609 | 32.57487 | 1700 | 794 | 66.97574 | 32.57448 | 1701 | 795 | 66.97548 | 32.57409 |
| 1702 | 796 | 66.97526 | 32.57356 | 1703 | 797 | 66.97511 | 32.57312 | 1704 | 798 | 66.97482 | 32.57243 |
| 1705 | 799 | 66.97462 | 32.57195 | 1706 | 800 | 66.97443 | 32.57153 | 1707 | 801 | 66.97406 | 32.57121 |
| 1708 | 802 | 66.97350 | 32.57141 | 1709 | 803 | 66.97350 | 32.57180 | 1710 | 804 | 66.97352 | 32.57231 |
| 1711 | 805 | 66.97357 | 32.57307 | 1712 | 806 | 66.97377 | 32.57368 | 1713 | 807 | 66.97379 | 32.57439 |
| 1714 | 808 | 66.97384 | 32.57502 | 1715 | 809 | 66.97367 | 32.57553 | 1716 | 810 | 66.97345 | 32.57607 |
| 1717 | 811 | 66.97306 | 32.57683 | 1718 | 812 | 66.97250 | 32.57732 | 1719 | 813 | 66.97201 | 32.57732 |
| 1720 | 814 | 66.97111 | 32.57724 | 1721 | 815 | 66.97074 | 32.57697 | 1722 | 816 | 66.97035 | 32.57668 |
| 1723 | 817 | 66.96971 | 32.57597 | 1724 | 818 | 66.96905 | 32.57534 | 1725 | 819 | 66.96849 | 32.57480 |
| 1726 | 820 | 66.96791 | 32.57424 | 1727 | 821 | 66.96749 | 32.57387 | 1728 | 822 | 66.96705 | 32.57358 |
| 1729 | 823 | 66.96652 | 32.57343 | 1730 | 824 | 66.96603 | 32.57348 | 1731 | 825 | 66.96525 | 32.57334 |
| 1732 | 826 | 66.96464 | 32.57348 | 1733 | 827 | 66.96410 | 32.57365 | 1734 | 828 | 66.96354 | 32.57392 |
| 1735 | 829 | 66.96310 | 32.57429 | 1736 | 830 | 66.96271 | 32.57456 | 1737 | 831 | 66.96220 | 32.57512 |
| 1738 | 832 | 66.96161 | 32.57556 | 1739 | 833 | 66.96132 | 32.57600 | 1740 | 834 | 66.96071 | 32.57644 |
| 1741 | 835 | 66.95988 | 32.57668 | 1742 | 836 | 66.95929 | 32.57688 | 1743 | 837 | 66.95890 | 32.57707 |
| 1744 | 838 | 66.95851 | 32.57717 | 1745 | 839 | 66.95700 | 32.57736 | 1746 | 840 | 66.95692 | 32.57671 |
| 1747 | 841 | 66.95704 | 32.57612 | 1748 | 842 | 66.95739 | 32.57531 | 1749 | 843 | 66.95785 | 32.57463 |
| 1750 | 844 | 66.95822 | 32.57385 | 1751 | 845 | 66.95851 | 32.57326 | 1752 | 846 | 66.95853 | 32.57307 |
| 1753 | 847 | 66.95880 | 32.57326 | 1754 | 848 | 66.95905 | 32.57368 | 1755 | 849 | 66.95909 | 32.57390 |
| 1756 | 850 | 66.95939 | 32.57387 | 1757 | 851 | 66.95953 | 32.57370 | 1758 | 852 | 66.95990 | 32.57336 |
| 1759 | 853 | 66.96036 | 32.57304 | 1760 | 854 | 66.96068 | 32.57282 | 1761 | 855 | 66.96090 | 32.57256 |
| 1762 | 856 | 66.96132 | 32.57209 | 1763 | 857 | 66.96158 | 32.57170 | 1764 | 858 | 66.96171 | 32.57141 |
| 1765 | 859 | 66.96215 | 32.57080 | 1766 | 860 | 66.96244 | 32.57026 | 1767 | 861 | 66.96251 | 32.57002 |
| 1768 | 862 | 66.96271 | 32.56955 | 1769 | 863 | 66.96285 | 32.56924 | 1770 | 864 | 66.96327 | 32.56867 |
| 1771 | 865 | 66.96351 | 32.56828 | 1772 | 866 | 66.96368 | 32.56789 | 1773 | 867 | 66.96405 | 32.56750 |
| 1774 | 868 | 66.96429 | 32.56728 | 1775 | 869 | 66.96466 | 32.56718 | 1776 | 870 | 66.96520 | 32.56709 |
| 1777 | 871 | 66.96547 | 32.56699 | 1778 | 872 | 66.96578 | 32.56706 | 1779 | 873 | 66.96605 | 32.56711 |
| 1780 | 874 | 66.96632 | 32.56721 | 1781 | 875 | 66.96656 | 32.56740 | 1782 | 876 | 66.96691 | 32.56704 |
| 1783 | 877 | 66.96730 | 32.56633 | 1784 | 878 | 66.96705 | 32.56587 | 1785 | 879 | 66.96703 | 32.56526 |
| 1786 | 880 | 66.96691 | 32.56506 | 1787 | 881 | 66.96676 | 32.56467 | 1788 | 882 | 66.96676 | 32.56428 |
| 1789 | 883 | 66.96691 | 32.56394 | 1790 | 884 | 66.96720 | 32.56389 | 1791 | 885 | 66.96757 | 32.56421 |
| 1792 | 886 | 66.96764 | 32.56418 | 1793 | 887 | 66.96783 | 32.56448 | 1794 | 888 | 66.96788 | 32.56479 |
| 1795 | 889 | 66.96798 | 32.56521 | 1796 | 890 | 66.96827 | 32.56567 | 1797 | 891 | 66.96857 | 32.56579 |
| 1798 | 892 | 66.96884 | 32.56533 | 1799 | 893 | 66.96910 | 32.56511 | 1800 | 894 | 66.96930 | 32.56479 |
| 1801 | 895 | 66.96954 | 32.56445 | 1802 | 896 | 66.96976 | 32.56428 | 1803 | 897 | 66.97013 | 32.56406 |
| 1804 | 898 | 66.97079 | 32.56377 | 1805 | 899 | 66.97111 | 32.56379 | 1806 | 900 | 66.97152 | 32.56389 |
| 1807 | 901 | 66.97189 | 32.56394 | 1808 | 902 | 66.97277 | 32.56432 | 1809 | 903 | 66.97325 | 32.56461 |
| 1810 | 904 | 66.97342 | 32.56524 | 1811 | 905 | 66.97377 | 32.56598 | 1812 | 906 | 66.97416 | 32.56646 |
| 1813 | 907 | 66.97452 | 32.56686 | 1814 | 908 | 66.97504 | 32.56712 | 1815 | 909 | 66.97550 | 32.56737 |
| 1816 | 910 | 66.97589 | 32.56776 | 1817 | 911 | 66.97623 | 32.56842 | 1818 | 912 | 66.97626 | 32.56888 |
| 1819 | 913 | 66.97628 | 32.56937 | 1820 | 914 | 66.97645 | 32.56986 | 1821 | 915 | 66.97657 | 32.57022 |
| 1822 | 916 | 66.97677 | 32.57074 | 1823 | 917 | 66.97696 | 32.57122 | 1824 | 918 | 66.97716 | 32.57157 |
| 1825 | 919 | 66.97762 | 32.57166 | 1826 | 920 | 66.97809 | 32.57137 | 1827 | 921 | 66.97814 | 32.57083 |
| 1828 | 922 | 66.97818 | 32.56983 | 1829 | 923 | 66.97809 | 32.56915 | 1830 | 924 | 66.97809 | 32.56864 |
| 1831 | 925 | 66.97801 | 32.56788 | 1832 | 926 | 66.97784 | 32.56725 | 1833 | 927 | 66.97777 | 32.56683 |
| 1834 | 928 | 66.97784 | 32.56651 | 1835 | 929 | 66.97794 | 32.56605 | 1836 | 930 | 66.97809 | 32.56568 |
| 1837 | 931 | 66.97843 | 32.56546 | 1838 | 932 | 66.97897 | 32.56512 | 1839 | 933 | 66.97950 | 32.56488 |
| 1840 | 934 | 66.97992 | 32.56444 | 1841 | 935 | 66.98028 | 32.56422 | 1842 | 936 | 66.98050 | 32.56385 |
| 1843 | 937 | 66.98116 | 32.56319 | 1844 | 938 | 66.98124 | 32.56275 | 1845 | 939 | 66.98146 | 32.56222 |
| 1846 | 940 | 66.98187 | 32.56178 | 1847 | 941 | 66.98214 | 32.56163 | 1848 | 942 | 66.98246 | 32.56122 |
| 1849 | 943 | 66.98263 | 32.56085 | 1850 | 944 | 66.98265 | 32.56046 | 1851 | 945 | 66.98268 | 32.56009 |
| 1852 | 946 | 66.98302 | 32.55958 | 1853 | 947 | 66.98358 | 32.55919 | 1854 | 948 | 66.98390 | 32.55921 |
| 1855 | 949 | 66.98419 | 32.55943 | 1856 | 950 | 66.98487 | 32.55934 | 1857 | 951 | 66.98544 | 32.55912 |
| 1858 | 952 | 66.98597 | 32.55877 | 1859 | 953 | 66.98661 | 32.55848 | 1860 | 954 | 66.98695 | 32.55807 |
| 1861 | 955 | 66.98722 | 32.55763 | 1862 | 956 | 66.98763 | 32.55711 | 1863 | 957 | 66.98778 | 32.55675 |
| 1864 | 958 | 66.98827 | 32.55630 | 1865 | 959 | 66.98900 | 32.55610 | 1866 | 960 | 66.98959 | 32.55598 |
| 1867 | 961 | 66.98983 | 32.55542 | 1868 | 962 | 66.99027 | 32.55486 | 1869 | 963 | 66.99061 | 32.55420 |
| 1870 | 964 | 66.99093 | 32.55368 | 1871 | 965 | 66.99120 | 32.55337 | 1872 | 966 | 66.99151 | 32.55347 |
| 1873 | 967 | 66.99171 | 32.55388 | 1874 | 968 | 66.99188 | 32.55417 | 1875 | 969 | 66.99222 | 32.55412 |
| 1876 | 970 | 66.99259 | 32.55381 | 1877 | 971 | 66.99295 | 32.55329 | 1878 | 972 | 66.99320 | 32.55298 |
| 1879 | 973 | 66.99352 | 32.55266 | 1880 | 974 | 66.99374 | 32.55229 | 1881 | 975 | 66.99422 | 32.55181 |
| 1882 | 976 | 66.99474 | 32.55132 | 1883 | 977 | 66.99530 | 32.55090 | 1884 | 978 | 66.99596 | 32.55044 |
| 1885 | 979 | 66.99649 | 32.55036 | 1886 | 980 | 66.99684 | 32.55000 | 1887 | 981 | 66.99703 | 32.54966 |
| 1888 | 982 | 66.99718 | 32.54907 | 1889 | 983 | 66.99730 | 32.54870 | 1890 | 984 | 66.99749 | 32.54802 |
| 1891 | 985 | 66.99786 | 32.54751 | 1892 | 986 | 66.99840 | 32.54702 | 1893 | 987 | 66.99876 | 32.54680 |
| 1894 | 988 | 66.99908 | 32.54636 | 1895 | 989 | 66.99942 | 32.54604 | 1896 | 990 | 66.99986 | 32.54540 |
| 1897 | 991 | 67.00020 | 32.54508 | 1898 | 992 | 67.00038 | 32.54454 | 1899 | 993 | 67.00069 | 32.54408 |
| 1900 | 994 | 67.00084 | 32.54320 | 1901 | 995 | 67.00111 | 32.54257 | 1902 | 996 | 67.00147 | 32.54183 |
| 1903 | 997 | 67.00186 | 32.54125 | 1904 | 998 | 67.00218 | 32.54083 | 1905 | 999 | 67.00255 | 32.54005 |
| 1906 | 1000 | 67.00294 | 32.53971 | 1907 | 1001 | 67.00316 | 32.53939 | 1908 | 1002 | 67.00335 | 32.53878 |
| 1909 | 1003 | 67.00382 | 32.53827 | 1910 | 1004 | 67.00404 | 32.53788 | 1911 | 1005 | 67.00431 | 32.53771 |
| 1912 | 1006 | 67.00440 | 32.53724 | 1913 | 1007 | 67.00482 | 32.53671 | 1914 | 1008 | 67.00518 | 32.53588 |
| 1915 | 1009 | 67.00548 | 32.53549 | 1916 | 1010 | 67.00594 | 32.53461 | 1917 | 1011 | 67.00623 | 32.53427 |
| 1918 | 1012 | 67.00662 | 32.53373 | 1919 | 1013 | 67.00682 | 32.53344 | 1920 | 1014 | 67.00704 | 32.53312 |
| 1921 | 1015 | 67.00721 | 32.53256 | 1922 | 1016 | 67.00728 | 32.53219 | 1923 | 1017 | 67.00723 | 32.53148 |
| 1924 | 1018 | 67.00728 | 32.53087 | 1925 | 1019 | 67.00736 | 32.53060 | 1926 | 1020 | 67.00745 | 32.53021 |
| 1927 | 1021 | 67.00733 | 32.52972 | 1928 | 1022 | 67.00736 | 32.52936 | 1929 | 1023 | 67.00733 | 32.52909 |
| 1930 | 1024 | 67.00728 | 32.52882 | 1931 | 1025 | 67.00738 | 32.52778 | 1932 | 1026 | 67.00738 | 32.52742 |
| 1933 | 1027 | 67.00733 | 32.52703 | 1934 | 1028 | 67.00753 | 32.52666 | 1935 | 1029 | 67.00799 | 32.52615 |
| 1936 | 1030 | 67.00872 | 32.52556 | 1937 | 1031 | 67.00909 | 32.52517 | 1938 | 1032 | 67.00973 | 32.52512 |
| 1939 | 1033 | 67.01012 | 32.52507 | 1940 | 1034 | 67.01053 | 32.52459 | 1941 | 1035 | 67.01075 | 32.52417 |
| 1942 | 1036 | 67.01077 | 32.52371 | 1943 | 1037 | 67.01080 | 32.52334 | 1944 | 1038 | 67.01085 | 32.52293 |
| 1945 | 1039 | 67.01097 | 32.52263 | 1946 | 1040 | 67.01121 | 32.52249 | 1947 | 1041 | 67.01141 | 32.52246 |
| 1948 | 1042 | 67.01163 | 32.52263 | 1949 | 1043 | 67.01195 | 32.52266 | 1950 | 1044 | 67.01212 | 32.52188 |
| 1951 | 1045 | 67.01222 | 32.52131 | 1952 | 1046 | 67.01236 | 32.52107 | 1953 | 1047 | 67.01241 | 32.52070 |
| 1954 | 1048 | 67.01278 | 32.52024 | 1955 | 1049 | 67.01312 | 32.52007 | 1956 | 1050 | 67.01334 | 32.51985 |
| 1957 | 1051 | 67.01331 | 32.51961 | 1958 | 1052 | 67.01361 | 32.51880 | 1959 | 1053 | 67.01397 | 32.51878 |
| 1960 | 1054 | 67.01431 | 32.51882 | 1961 | 1055 | 67.01453 | 32.51875 | 1962 | 1056 | 67.01458 | 32.51853 |
| 1963 | 1057 | 67.01471 | 32.51824 | 1964 | 1058 | 67.01485 | 32.51785 | 1965 | 1059 | 67.01488 | 32.51751 |
| 1966 | 1060 | 67.01495 | 32.51719 | 1967 | 1061 | 67.01500 | 32.51692 | 1968 | 1062 | 67.01505 | 32.51677 |
| 1969 | 1063 | 67.01546 | 32.51631 | 1970 | 1064 | 67.01573 | 32.51575 | 1971 | 1065 | 67.01563 | 32.51541 |
| 1972 | 1066 | 67.01556 | 32.51511 | 1973 | 1067 | 67.01539 | 32.51492 | 1974 | 1068 | 67.01510 | 32.51477 |
| 1975 | 1069 | 67.01480 | 32.51470 | 1976 | 1070 | 67.01444 | 32.51470 | 1977 | 1071 | 67.01414 | 32.51463 |
| 1978 | 1072 | 67.01407 | 32.51436 | 1979 | 1073 | 67.01383 | 32.51411 | 1980 | 1074 | 67.01368 | 32.51367 |
| 1981 | 1075 | 67.01368 | 32.51341 | 1982 | 1076 | 67.01358 | 32.51301 | 1983 | 1077 | 67.01339 | 32.51214 |
| 1984 | 1078 | 67.01341 | 32.51167 | 1985 | 1079 | 67.01336 | 32.51121 | 1986 | 1080 | 67.01348 | 32.51074 |
| 1987 | 1081 | 67.01368 | 32.50974 | 1988 | 1082 | 67.01395 | 32.50904 | 1989 | 1083 | 67.01402 | 32.50865 |
| 1990 | 1084 | 67.01427 | 32.50823 | 1991 | 1085 | 67.01463 | 32.50769 | 1992 | 1086 | 67.01514 | 32.50718 |
| 1993 | 1087 | 67.01546 | 32.50662 | 1994 | 1088 | 67.01580 | 32.50608 | 1995 | 1089 | 67.01605 | 32.50584 |
| 1996 | 1090 | 67.01637 | 32.50540 | 1997 | 1091 | 67.01668 | 32.50493 | 1998 | 1092 | 67.01680 | 32.50452 |
| 1999 | 1093 | 67.01710 | 32.50418 | 2000 | 1094 | 67.01739 | 32.50367 | 2001 | 1095 | 67.01773 | 32.50332 |
| 2002 | 1096 | 67.01793 | 32.50293 | 2003 | 1097 | 67.01842 | 32.50227 | 2004 | 1098 | 67.01890 | 32.50186 |
| 2005 | 1099 | 67.01927 | 32.50164 | 2006 | 1100 | 67.01917 | 32.50118 | 2007 | 1101 | 67.01932 | 32.50081 |
| 2008 | 1102 | 67.01949 | 32.50025 | 2009 | 1103 | 67.01956 | 32.49973 | 2010 | 1104 | 67.01966 | 32.49900 |
| 2011 | 1105 | 67.01973 | 32.49854 | 2012 | 1106 | 67.01998 | 32.49800 | 2013 | 1107 | 67.02008 | 32.49764 |
| 2014 | 1108 | 67.02044 | 32.49722 | 2015 | 1109 | 67.02071 | 32.49700 | 2016 | 1110 | 67.02081 | 32.49671 |
| 2017 | 1111 | 67.02088 | 32.49639 | 2018 | 1112 | 67.02091 | 32.49607 | 2019 | 1113 | 67.02100 | 32.49549 |
| 2020 | 1114 | 67.02115 | 32.49480 | 2021 | 1115 | 67.02130 | 32.49441 | 2022 | 1116 | 67.02154 | 32.49417 |
| 2023 | 1117 | 67.02181 | 32.49392 | 2024 | 1118 | 67.02200 | 32.49383 | 2025 | 1119 | 67.02222 | 32.49344 |
| 2026 | 1120 | 67.02227 | 32.49284 | 2027 | 1121 | 67.02232 | 32.49252 | 2028 | 1122 | 67.02218 | 32.49211 |
| 2029 | 1123 | 67.02191 | 32.49172 | 2030 | 1124 | 67.02188 | 32.49135 | 2031 | 1125 | 67.02169 | 32.49086 |
| 2032 | 1126 | 67.02164 | 32.49006 | 2033 | 1127 | 67.02154 | 32.48930 | 2034 | 1128 | 67.02188 | 32.48866 |
| 2035 | 1129 | 67.02215 | 32.48820 | 2036 | 1130 | 67.02252 | 32.48805 | 2037 | 1131 | 67.02286 | 32.48798 |
| 2038 | 1132 | 67.02310 | 32.48788 | 2039 | 1133 | 67.02335 | 32.48754 | 2040 | 1134 | 67.02364 | 32.48698 |
| 2041 | 1135 | 67.02379 | 32.48669 | 2042 | 1136 | 67.02396 | 32.48639 | 2043 | 1137 | 67.02418 | 32.48603 |
| 2044 | 1138 | 67.02432 | 32.48573 | 2045 | 1139 | 67.02452 | 32.48542 | 2046 | 1140 | 66.97253 | 32.64260 |
| 2047 | 1141 | 66.97295 | 32.64214 | 2048 | 1142 | 66.97336 | 32.64172 | 2049 | 1143 | 66.97357 | 32.64135 |
| 2050 | 1144 | 66.97403 | 32.64102 | 2051 | 1145 | 66.97453 | 32.64135 | 2052 | 1146 | 66.97515 | 32.64151 |
| 2053 | 1147 | 66.97553 | 32.64147 | 2054 | 1148 | 66.97615 | 32.64097 | 2055 | 1149 | 66.97620 | 32.64043 |
| 2056 | 1150 | 66.97620 | 32.64002 | 2057 | 1151 | 66.97636 | 32.63972 | 2058 | 1152 | 66.97657 | 32.63897 |
| 2059 | 1153 | 66.97661 | 32.63852 | 2060 | 1154 | 66.97670 | 32.63802 | 2061 | 1155 | 66.97699 | 32.63768 |
| 2062 | 1156 | 66.97749 | 32.63752 | 2063 | 1157 | 66.97765 | 32.63731 | 2064 | 1158 | 66.97849 | 32.63668 |
| 2065 | 1159 | 66.97890 | 32.63635 | 2066 | 1160 | 66.97936 | 32.63585 | 2067 | 1161 | 66.97982 | 32.63485 |
| 2068 | 1162 | 66.98024 | 32.63402 | 2069 | 1163 | 66.98053 | 32.63318 | 2070 | 1164 | 66.98082 | 32.63268 |
| 2071 | 1165 | 66.98153 | 32.63152 | 2072 | 1166 | 66.98203 | 32.63052 | 2073 | 1167 | 66.98265 | 32.62914 |
| 2074 | 1168 | 66.98323 | 32.62839 | 2075 | 1169 | 66.98353 | 32.62785 | 2076 | 1170 | 66.98336 | 32.62715 |
| 2077 | 1171 | 66.98328 | 32.62606 | 2078 | 1172 | 66.98282 | 32.62535 | 2079 | 1173 | 66.98211 | 32.62598 |
| 2080 | 1174 | 66.98165 | 32.62640 | 2081 | 1175 | 66.98115 | 32.62635 | 2082 | 1176 | 66.98078 | 32.62602 |
| 2083 | 1177 | 66.98090 | 32.62548 | 2084 | 1178 | 66.98103 | 32.62452 | 2085 | 1179 | 66.98094 | 32.62390 |
| 2086 | 1180 | 66.98094 | 32.62256 | 2087 | 1181 | 66.98119 | 32.62186 | 2088 | 1182 | 66.98144 | 32.62098 |
| 2089 | 1183 | 66.98190 | 32.61959 | 2090 | 1184 | 66.98203 | 32.61890 | 2091 | 1185 | 66.98119 | 32.61852 |
| 2092 | 1186 | 66.98094 | 32.61765 | 2093 | 1187 | 66.98061 | 32.61752 | 2094 | 1188 | 66.98019 | 32.61786 |
| 2095 | 1189 | 66.98003 | 32.61869 | 2096 | 1190 | 66.97999 | 32.61969 | 2097 | 1191 | 66.97994 | 32.62081 |
| 2098 | 1192 | 66.97969 | 32.62165 | 2099 | 1193 | 66.97919 | 32.62236 | 2100 | 1194 | 66.97886 | 32.62306 |
| 2101 | 1195 | 66.97903 | 32.62402 | 2102 | 1196 | 66.97869 | 32.62494 | 2103 | 1197 | 66.97769 | 32.62515 |
| 2104 | 1198 | 66.97736 | 32.62619 | 2105 | 1199 | 66.97686 | 32.62702 | 2106 | 1200 | 66.97632 | 32.62706 |
| 2107 | 1201 | 66.97603 | 32.62744 | 2108 | 1202 | 66.97536 | 32.62744 | 2109 | 1203 | 66.97503 | 32.62673 |
| 2110 | 1204 | 66.97486 | 32.62569 | 2111 | 1205 | 66.97470 | 32.62502 | 2112 | 1206 | 66.97440 | 32.62423 |
| 2113 | 1207 | 66.97407 | 32.62360 | 2114 | 1208 | 66.97386 | 32.62319 | 2115 | 1209 | 66.97357 | 32.62269 |
| 2116 | 1210 | 66.97295 | 32.62240 | 2117 | 1211 | 66.97224 | 32.62281 | 2118 | 1212 | 66.97174 | 32.62315 |
| 2119 | 1213 | 66.97124 | 32.62319 | 2120 | 1214 | 66.97016 | 32.62310 | 2121 | 1215 | 66.96945 | 32.62273 |
| 2122 | 1216 | 66.96853 | 32.62273 | 2123 | 1217 | 66.96803 | 32.62310 | 2124 | 1218 | 66.96770 | 32.62385 |
| 2125 | 1219 | 66.96737 | 32.62519 | 2126 | 1220 | 66.96737 | 32.62652 | 2127 | 1221 | 66.96732 | 32.62777 |
| 2128 | 1222 | 66.96712 | 32.62898 | 2129 | 1223 | 66.96699 | 32.62994 | 2130 | 1224 | 66.96624 | 32.63239 |
| 2131 | 1225 | 66.96620 | 32.63418 | 2132 | 1226 | 66.96612 | 32.63614 | 2133 | 1227 | 66.96616 | 32.63797 |
| 2134 | 1228 | 66.96616 | 32.63935 | 2135 | 1229 | 66.96657 | 32.64002 | 2136 | 1230 | 66.96682 | 32.63964 |
| 2137 | 1231 | 66.96703 | 32.63860 | 2138 | 1232 | 66.96757 | 32.63852 | 2139 | 1233 | 66.96824 | 32.63868 |
| 2140 | 1234 | 66.96870 | 32.63931 | 2141 | 1235 | 66.96886 | 32.64006 | 2142 | 1236 | 66.96920 | 32.64085 |
| 2143 | 1237 | 66.96961 | 32.64139 | 2144 | 1238 | 66.97011 | 32.64118 | 2145 | 1239 | 66.97036 | 32.64077 |
| 2146 | 1240 | 66.97078 | 32.64097 | 2147 | 1241 | 66.97111 | 32.64135 | 2148 | 1242 | 66.97132 | 32.64201 |
| 2149 | 1243 | 66.97161 | 32.64251 | 2150 | 1244 | 66.97211 | 32.64268 | 2151 | 1245 | 66.97253 | 32.64260 |
| 2152 | 1246 | 66.98445 | 32.62030 | 2153 | 1247 | 66.98449 | 32.61960 | 2154 | 1248 | 66.98459 | 32.61901 |
| 2155 | 1249 | 66.98472 | 32.61817 | 2156 | 1250 | 66.98479 | 32.61751 | 2157 | 1251 | 66.98489 | 32.61674 |
| 2158 | 1252 | 66.98495 | 32.61611 | 2159 | 1253 | 66.98499 | 32.61544 | 2160 | 1254 | 66.98509 | 32.61464 |
| 2161 | 1255 | 66.98522 | 32.61374 | 2162 | 1256 | 66.98529 | 32.61327 | 2163 | 1257 | 66.98555 | 32.61314 |
| 2164 | 1258 | 66.98579 | 32.61337 | 2165 | 1259 | 66.98582 | 32.61407 | 2166 | 1260 | 66.98595 | 32.61454 |
| 2167 | 1261 | 66.98632 | 32.61434 | 2168 | 1262 | 66.98662 | 32.61401 | 2169 | 1263 | 66.98725 | 32.61294 |
| 2170 | 1264 | 66.98789 | 32.61221 | 2171 | 1265 | 66.98829 | 32.61137 | 2172 | 1266 | 66.98865 | 32.61057 |
| 2173 | 1267 | 66.98912 | 32.61001 | 2174 | 1268 | 66.98982 | 32.60864 | 2175 | 1269 | 66.99052 | 32.60824 |
| 2176 | 1270 | 66.99125 | 32.60851 | 2177 | 1271 | 66.99178 | 32.60818 | 2178 | 1272 | 66.99188 | 32.60758 |
| 2179 | 1273 | 66.99218 | 32.60694 | 2180 | 1274 | 66.99258 | 32.60648 | 2181 | 1275 | 66.99328 | 32.60584 |
| 2182 | 1276 | 66.99405 | 32.60541 | 2183 | 1277 | 66.99455 | 32.60461 | 2184 | 1278 | 66.99475 | 32.60314 |
| 2185 | 1279 | 66.99445 | 32.60208 | 2186 | 1280 | 66.99405 | 32.60124 | 2187 | 1281 | 66.99382 | 32.60088 |
| 2188 | 1282 | 66.99325 | 32.60091 | 2189 | 1283 | 66.99258 | 32.60088 | 2190 | 1284 | 66.99222 | 32.60094 |
| 2191 | 1285 | 66.99132 | 32.60191 | 2192 | 1286 | 66.99095 | 32.60248 | 2193 | 1287 | 66.99065 | 32.60311 |
| 2194 | 1288 | 66.98992 | 32.60414 | 2195 | 1289 | 66.98929 | 32.60434 | 2196 | 1290 | 66.98879 | 32.60428 |
| 2197 | 1291 | 66.98805 | 32.60368 | 2198 | 1292 | 66.98779 | 32.60304 | 2199 | 1293 | 66.98712 | 32.60354 |
| 2200 | 1294 | 66.98682 | 32.60434 | 2201 | 1295 | 66.98619 | 32.60484 | 2202 | 1296 | 66.98599 | 32.60434 |
| 2203 | 1297 | 66.98575 | 32.60388 | 2204 | 1298 | 66.98552 | 32.60448 | 2205 | 1299 | 66.98522 | 32.60528 |
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| 2209 | 1303 | 66.98342 | 32.60904 | 2210 | 1304 | 66.98289 | 32.60961 | 2211 | 1305 | 66.98302 | 32.61074 |
| 2212 | 1306 | 66.98329 | 32.61207 | 2213 | 1307 | 66.98332 | 32.61337 | 2214 | 1308 | 66.98345 | 32.61487 |
| 2215 | 1309 | 66.98359 | 32.61661 | 2216 | 1310 | 66.98382 | 32.61854 | 2217 | 1311 | 66.98405 | 32.62024 |
| 2218 | 1312 | 66.98425 | 32.62100 | 2219 | 1313 | 66.98445 | 32.62030 | 2220 | 1314 | 66.97038 | 32.61402 |
| 2221 | 1315 | 66.97048 | 32.61348 | 2222 | 1316 | 66.97080 | 32.61303 | 2223 | 1317 | 66.97092 | 32.61246 |
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| 2230 | 1324 | 66.97268 | 32.60743 | 2231 | 1325 | 66.97297 | 32.60702 | 2232 | 1326 | 66.97374 | 32.60686 |
| 2233 | 1327 | 66.97406 | 32.60660 | 2234 | 1328 | 66.97419 | 32.60625 | 2235 | 1329 | 66.97431 | 32.60587 |
| 2236 | 1330 | 66.97451 | 32.60532 | 2237 | 1331 | 66.97467 | 32.60475 | 2238 | 1332 | 66.97479 | 32.60404 |
| 2239 | 1333 | 66.97483 | 32.60324 | 2240 | 1334 | 66.97492 | 32.60264 | 2241 | 1335 | 66.97486 | 32.60190 |
| 2242 | 1336 | 66.97486 | 32.60110 | 2243 | 1337 | 66.97508 | 32.60001 | 2244 | 1338 | 66.97527 | 32.59912 |
| 2245 | 1339 | 66.97543 | 32.59848 | 2246 | 1340 | 66.97547 | 32.59793 | 2247 | 1341 | 66.97515 | 32.59717 |
| 2248 | 1342 | 66.97444 | 32.59710 | 2249 | 1343 | 66.97374 | 32.59755 | 2250 | 1344 | 66.97329 | 32.59780 |
| 2251 | 1345 | 66.97291 | 32.59816 | 2252 | 1346 | 66.97265 | 32.59864 | 2253 | 1347 | 66.97246 | 32.59918 |
| 2254 | 1348 | 66.97230 | 32.59963 | 2255 | 1349 | 66.97198 | 32.60008 | 2256 | 1350 | 66.97163 | 32.60024 |
| 2257 | 1351 | 66.97131 | 32.60011 | 2258 | 1352 | 66.97092 | 32.59969 | 2259 | 1353 | 66.97057 | 32.59934 |
| 2260 | 1354 | 66.97019 | 32.59947 | 2261 | 1355 | 66.96957 | 32.59992 | 2262 | 1356 | 66.96980 | 32.60120 |
| 2263 | 1357 | 66.96955 | 32.60248 | 2264 | 1358 | 66.96923 | 32.60359 | 2265 | 1359 | 66.96897 | 32.60468 |
| 2266 | 1360 | 66.96852 | 32.60606 | 2267 | 1361 | 66.96817 | 32.60740 | 2268 | 1362 | 66.96779 | 32.60903 |
| 2269 | 1363 | 66.96734 | 32.61028 | 2270 | 1364 | 66.96686 | 32.61156 | 2271 | 1365 | 66.96705 | 32.61214 |
| 2272 | 1366 | 66.96763 | 32.61210 | 2273 | 1367 | 66.96766 | 32.61265 | 2274 | 1368 | 66.96792 | 32.61354 |
| 2275 | 1369 | 66.96833 | 32.61377 | 2276 | 1370 | 66.96932 | 32.61406 | 2277 | 1371 | 66.96990 | 32.61421 |
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| 2281 | 1375 | 66.96768 | 32.65179 | 2282 | 1376 | 66.96754 | 32.65107 | 2283 | 1377 | 66.96718 | 32.65034 |
| 2284 | 1378 | 66.96693 | 32.64979 | 2285 | 1379 | 66.96671 | 32.64954 | 2286 | 1380 | 66.96654 | 32.64879 |
| 2287 | 1381 | 66.96668 | 32.64793 | 2288 | 1382 | 66.96709 | 32.64729 | 2289 | 1383 | 66.96729 | 32.64635 |
| 2290 | 1384 | 66.96732 | 32.64540 | 2291 | 1385 | 66.96709 | 32.64474 | 2292 | 1386 | 66.96651 | 32.64393 |
| 2293 | 1387 | 66.96643 | 32.64340 | 2294 | 1388 | 66.96646 | 32.64288 | 2295 | 1389 | 66.96676 | 32.64224 |
| 2296 | 1390 | 66.96696 | 32.64140 | 2297 | 1391 | 66.96701 | 32.64054 | 2298 | 1392 | 66.96657 | 32.64002 |
| 2299 | 1393 | 66.96645 | 32.63981 | 2300 | 1394 | 66.96554 | 32.63888 | 2301 | 1395 | 66.96515 | 32.63840 |
| 2302 | 1396 | 66.96457 | 32.63793 | 2303 | 1397 | 66.96393 | 32.63785 | 2304 | 1398 | 66.96379 | 32.63835 |
| 2305 | 1399 | 66.96365 | 32.63874 | 2306 | 1400 | 66.96376 | 32.63932 | 2307 | 1401 | 66.96365 | 32.63988 |
| 2308 | 1402 | 66.96351 | 32.64027 | 2309 | 1403 | 66.96357 | 32.64085 | 2310 | 1404 | 66.96351 | 32.64140 |
| 2311 | 1405 | 66.96321 | 32.64151 | 2312 | 1406 | 66.96301 | 32.64093 | 2313 | 1407 | 66.96296 | 32.64029 |
| 2314 | 1408 | 66.96282 | 32.63974 | 2315 | 1409 | 66.96276 | 32.63946 | 2316 | 1410 | 66.96237 | 32.63935 |
| 2317 | 1411 | 66.96224 | 32.63974 | 2318 | 1412 | 66.96199 | 32.63988 | 2319 | 1413 | 66.96174 | 32.63965 |
| 2320 | 1414 | 66.96157 | 32.63943 | 2321 | 1415 | 66.96121 | 32.63902 | 2322 | 1416 | 66.96093 | 32.63915 |
| 2323 | 1417 | 66.96071 | 32.63971 | 2324 | 1418 | 66.96049 | 32.64007 | 2325 | 1419 | 66.96051 | 32.64096 |
| 2326 | 1420 | 66.96049 | 32.64176 | 2327 | 1421 | 66.96057 | 32.64235 | 2328 | 1422 | 66.96074 | 32.64279 |
| 2329 | 1423 | 66.96076 | 32.64324 | 2330 | 1424 | 66.96090 | 32.64379 | 2331 | 1425 | 66.96104 | 32.64418 |
| 2332 | 1426 | 66.96132 | 32.64468 | 2333 | 1427 | 66.96151 | 32.64537 | 2334 | 1428 | 66.96204 | 32.64596 |
| 2335 | 1429 | 66.96246 | 32.64621 | 2336 | 1430 | 66.96279 | 32.64685 | 2337 | 1431 | 66.96271 | 32.64760 |
| 2338 | 1432 | 66.96293 | 32.64812 | 2339 | 1433 | 66.96348 | 32.64876 | 2340 | 1434 | 66.96390 | 32.64929 |
| 2341 | 1435 | 66.96401 | 32.64993 | 2342 | 1436 | 66.96426 | 32.65062 | 2343 | 1437 | 66.96460 | 32.65129 |
| 2344 | 1438 | 66.96512 | 32.65184 | 2345 | 1439 | 66.96557 | 32.65196 | 2346 | 1440 | 66.96623 | 32.65265 |
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| 2353 | 1447 | 66.99284 | 32.59227 | 2354 | 1448 | 66.99255 | 32.59155 | 2355 | 1449 | 66.99236 | 32.59030 |
| 2356 | 1450 | 66.99255 | 32.58911 | 2357 | 1451 | 66.99236 | 32.58801 | 2358 | 1452 | 66.99327 | 32.58643 |
| 2359 | 1453 | 66.99355 | 32.58504 | 2360 | 1454 | 66.99432 | 32.58504 | 2361 | 1455 | 66.99470 | 32.58418 |
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| 2365 | 1459 | 66.99647 | 32.57772 | 2366 | 1460 | 66.99638 | 32.57624 | 2367 | 1461 | 66.99633 | 32.57533 |
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| 2374 | 1468 | 66.99145 | 32.57930 | 2375 | 1469 | 66.99073 | 32.58083 | 2376 | 1470 | 66.99016 | 32.58193 |
| 2377 | 1471 | 66.99035 | 32.58246 | 2378 | 1472 | 66.99121 | 32.58193 | 2379 | 1473 | 66.99145 | 32.58260 |
| 2380 | 1474 | 66.99102 | 32.58408 | 2381 | 1475 | 66.99092 | 32.58542 | 2382 | 1476 | 66.99135 | 32.58686 |
| 2383 | 1477 | 66.99150 | 32.58825 | 2384 | 1478 | 66.99116 | 32.59054 | 2385 | 1479 | 66.99126 | 32.59313 |
| 2386 | 1480 | 66.99106 | 32.59591 | 2387 | 1481 | 66.99121 | 32.59731 | 2388 | 1482 | 66.99221 | 32.59724 |
| 2389 | 1483 | 66.97318 | 32.61249 | 2390 | 1484 | 66.97334 | 32.61199 | 2391 | 1485 | 66.97344 | 32.61159 |
| 2392 | 1486 | 66.97363 | 32.61106 | 2393 | 1487 | 66.97376 | 32.61079 | 2394 | 1488 | 66.97395 | 32.61090 |
| 2395 | 1489 | 66.97419 | 32.61103 | 2396 | 1490 | 66.97451 | 32.61116 | 2397 | 1491 | 66.97483 | 32.61164 |
| 2398 | 1492 | 66.97509 | 32.61169 | 2399 | 1493 | 66.97530 | 32.61169 | 2400 | 1494 | 66.97538 | 32.61116 |
| 2401 | 1495 | 66.97557 | 32.61084 | 2402 | 1496 | 66.97565 | 32.61036 | 2403 | 1497 | 66.97610 | 32.61052 |
| 2404 | 1498 | 66.97626 | 32.61095 | 2405 | 1499 | 66.97661 | 32.61143 | 2406 | 1500 | 66.97709 | 32.61175 |
| 2407 | 1501 | 66.97778 | 32.61167 | 2408 | 1502 | 66.97796 | 32.61111 | 2409 | 1503 | 66.97828 | 32.61060 |
| 2410 | 1504 | 66.97847 | 32.61013 | 2411 | 1505 | 66.97879 | 32.60877 | 2412 | 1506 | 66.97834 | 32.60813 |
| 2413 | 1507 | 66.97834 | 32.60733 | 2414 | 1508 | 66.97828 | 32.60670 | 2415 | 1509 | 66.97844 | 32.60598 |
| 2416 | 1510 | 66.97865 | 32.60523 | 2417 | 1511 | 66.97892 | 32.60438 | 2418 | 1512 | 66.97908 | 32.60356 |
| 2419 | 1513 | 66.97932 | 32.60284 | 2420 | 1514 | 66.97924 | 32.60225 | 2421 | 1515 | 66.97900 | 32.60170 |
| 2422 | 1516 | 66.97831 | 32.60164 | 2423 | 1517 | 66.97778 | 32.60207 | 2424 | 1518 | 66.97711 | 32.60273 |
| 2425 | 1519 | 66.97682 | 32.60329 | 2426 | 1520 | 66.97634 | 32.60393 | 2427 | 1521 | 66.97631 | 32.60462 |
| 2428 | 1522 | 66.97621 | 32.60566 | 2429 | 1523 | 66.97597 | 32.60704 | 2430 | 1524 | 66.97594 | 32.60763 |
| 2431 | 1525 | 66.97600 | 32.60810 | 2432 | 1526 | 66.97600 | 32.60888 | 2433 | 1527 | 66.97576 | 32.60911 |
| 2434 | 1528 | 66.97552 | 32.60911 | 2435 | 1529 | 66.97530 | 32.60898 | 2436 | 1530 | 66.97514 | 32.60885 |
| 2437 | 1531 | 66.97467 | 32.60858 | 2438 | 1532 | 66.97432 | 32.60872 | 2439 | 1533 | 66.97387 | 32.60898 |
| 2440 | 1534 | 66.97342 | 32.60973 | 2441 | 1535 | 66.97310 | 32.61005 | 2442 | 1536 | 66.97302 | 32.61063 |
| 2443 | 1537 | 66.97291 | 32.61140 | 2444 | 1538 | 66.97294 | 32.61191 | 2445 | 1539 | 66.97291 | 32.61223 |
| 2446 | 1540 | 66.97302 | 32.61260 | 2447 | 1541 | 66.97318 | 32.61249 | 2448 | 1542 | 66.97161 | 32.57331 |
| 2449 | 1543 | 66.97203 | 32.57232 | 2450 | 1544 | 66.97203 | 32.57147 | 2451 | 1545 | 66.97194 | 32.57058 |
| 2452 | 1546 | 66.97152 | 32.56927 | 2453 | 1547 | 66.97062 | 32.56889 | 2454 | 1548 | 66.97011 | 32.56983 |
| 2455 | 1549 | 66.96968 | 32.57044 | 2456 | 1550 | 66.96968 | 32.57138 | 2457 | 1551 | 66.96973 | 32.57237 |
| 2458 | 1552 | 66.96992 | 32.57321 | 2459 | 1553 | 66.97034 | 32.57392 | 2460 | 1554 | 66.97100 | 32.57434 |
| 2461 | 1555 | 66.97161 | 32.57331 | 2462 | 1556 | 66.96494 | 32.62382 | 2463 | 1557 | 66.96523 | 32.62311 |
| 2464 | 1558 | 66.96527 | 32.62182 | 2465 | 1559 | 66.96506 | 32.62090 | 2466 | 1560 | 66.96477 | 32.61944 |
| 2467 | 1561 | 66.96460 | 32.61828 | 2468 | 1562 | 66.96406 | 32.61861 | 2469 | 1563 | 66.96356 | 32.61923 |
| 2470 | 1564 | 66.96331 | 32.61982 | 2471 | 1565 | 66.96315 | 32.62053 | 2472 | 1566 | 66.96294 | 32.62136 |
| 2473 | 1567 | 66.96306 | 32.62240 | 2474 | 1568 | 66.96356 | 32.62332 | 2475 | 1569 | 66.96423 | 32.62386 |
| 2476 | 1570 | 66.96494 | 32.62382 |  |  |  |  |  |  |  |  |

## Сообщество зарослей багрянок

Это одно из самых богатых видами донных сообществ Белого моря. Оно формируется в нижней части фитали на глубинах от 7 до 23 м. Фон в этом сообществе создают пластинчатые красные водоросли, в первую очередь, *Phyllophora* sp., *Odonthalia dentata* (Linnaeus) и *Phycodrys rubens* (Linnaeus). Заросли багрянок располагаются ниже зарослей ламинарии и формируют характерные пояса, окаймляющие сублиторальные склоны в местах с высокой гидродинамической напряженностью, прежде всего салмы Рисунок 3.



**Рисунок 3.** Карта распределения собществ, связнных зарослями багрянок. Map of the distribution of communities associated with Rhodophyta

Таблица +.2. Координаты опорных точек полигонов, описывающих сообщества, связанные с зарослями багрянок. Coordinates of polygon reference points describing communities associated Rhodophyta assemblages

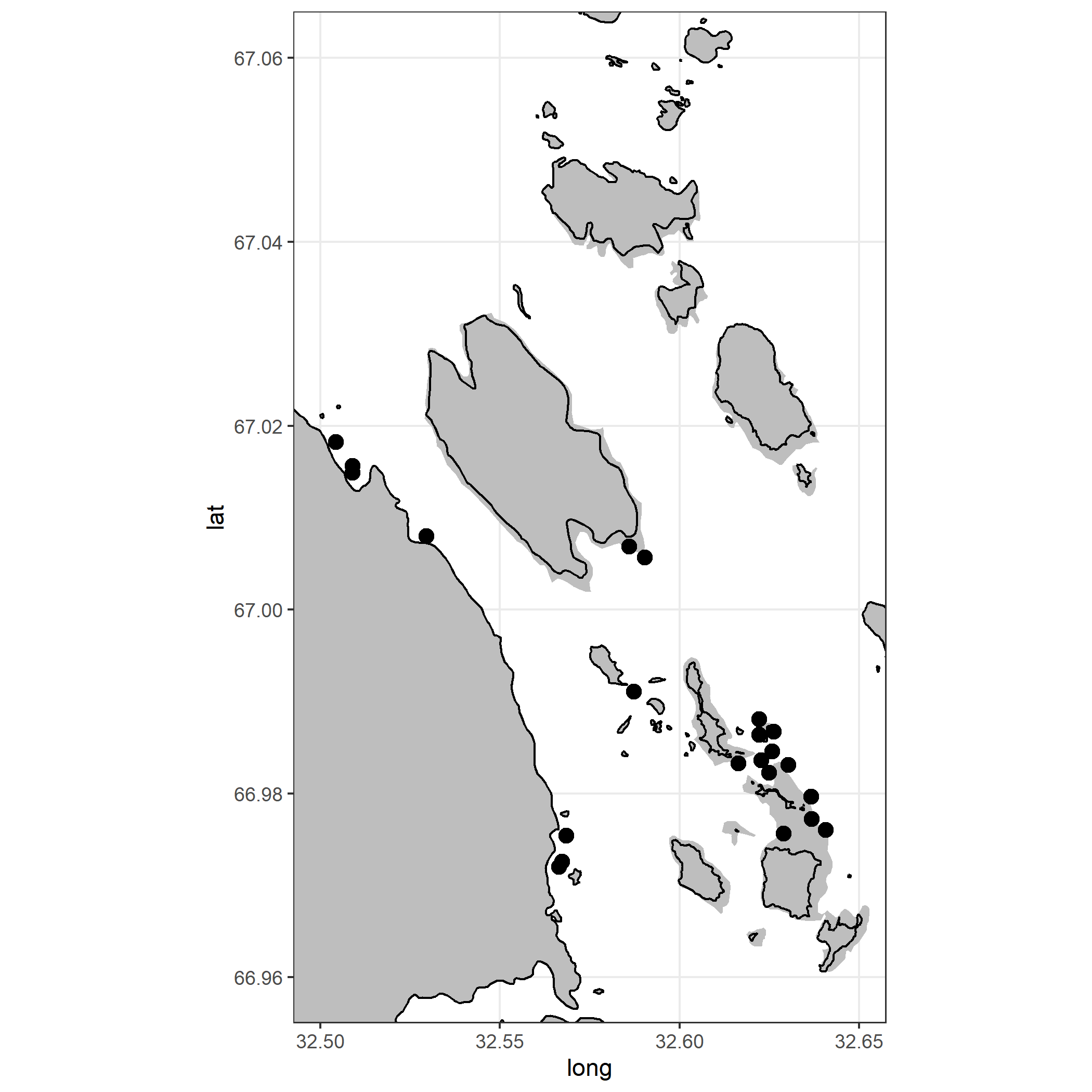
| № точки | Порядок | N | E | № точки | Порядок | N | E | № точки | Порядок | N | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 66.98885 | 32.65339 | 2 | 2 | 66.98987 | 32.65262 | 3 | 3 | 66.98891 | 32.65334 |
| 4 | 4 | 66.98910 | 32.65320 | 5 | 5 | 66.98900 | 32.65238 | 6 | 6 | 66.98903 | 32.65178 |
| 7 | 7 | 66.98913 | 32.65105 | 8 | 8 | 66.98921 | 32.65050 | 9 | 9 | 66.98921 | 32.64983 |
| 10 | 10 | 66.98932 | 32.64923 | 11 | 11 | 66.98942 | 32.64850 | 12 | 12 | 66.98947 | 32.64804 |
| 13 | 13 | 66.98958 | 32.64707 | 14 | 14 | 66.98971 | 32.64642 | 15 | 15 | 66.98986 | 32.64570 |
| 16 | 16 | 66.98989 | 32.64450 | 17 | 17 | 66.99015 | 32.64341 | 18 | 18 | 66.99015 | 32.64276 |
| 19 | 19 | 66.99025 | 32.64188 | 20 | 20 | 66.99033 | 32.64102 | 21 | 21 | 66.99051 | 32.64008 |
| 22 | 22 | 66.99098 | 32.63959 | 23 | 23 | 66.99267 | 32.63956 | 24 | 24 | 66.99303 | 32.63999 |
| 25 | 25 | 66.99299 | 32.64025 | 26 | 26 | 66.99306 | 32.64088 | 27 | 27 | 66.99344 | 32.64114 |
| 28 | 28 | 66.99382 | 32.64117 | 29 | 29 | 66.99425 | 32.64085 | 30 | 30 | 66.99508 | 32.64031 |
| 31 | 31 | 66.99543 | 32.63983 | 32 | 32 | 66.99575 | 32.63919 | 33 | 33 | 66.99601 | 32.63865 |
| 34 | 34 | 66.99619 | 32.63823 | 35 | 35 | 66.99643 | 32.63759 | 36 | 36 | 66.99660 | 32.63712 |
| 37 | 37 | 66.99727 | 32.63678 | 38 | 38 | 66.99927 | 32.63933 | 39 | 39 | 66.99913 | 32.63946 |
| 40 | 40 | 66.99894 | 32.63963 | 41 | 41 | 66.99886 | 32.63992 | 42 | 42 | 66.99877 | 32.64052 |
| 43 | 43 | 66.99866 | 32.64153 | 44 | 44 | 66.99852 | 32.64239 | 45 | 45 | 66.99827 | 32.64317 |
| 46 | 46 | 66.99717 | 32.64403 | 47 | 47 | 66.99714 | 32.64416 | 48 | 48 | 66.99697 | 32.64487 |
| 49 | 49 | 66.99658 | 32.64590 | 50 | 50 | 66.99625 | 32.64671 | 51 | 51 | 66.99600 | 32.64718 |
| 52 | 52 | 66.99552 | 32.64761 | 53 | 53 | 66.99502 | 32.64805 | 54 | 54 | 66.99471 | 32.64860 |
| 55 | 55 | 66.99436 | 32.64894 | 56 | 56 | 66.99347 | 32.64947 | 57 | 57 | 66.99284 | 32.65039 |
| 58 | 58 | 66.98885 | 32.65339 | 59 | 1 | 66.99738 | 32.63692 | 60 | 2 | 66.99758 | 32.63718 |
| 61 | 3 | 66.99738 | 32.63692 | 62 | 4 | 66.99762 | 32.63650 | 63 | 5 | 66.99791 | 32.63609 |
| 64 | 6 | 66.99832 | 32.63591 | 65 | 7 | 66.99856 | 32.63587 | 66 | 8 | 66.99881 | 32.63586 |
| 67 | 9 | 66.99899 | 32.63585 | 68 | 10 | 66.99926 | 32.63583 | 69 | 11 | 66.99946 | 32.63583 |
| 70 | 12 | 66.99971 | 32.63583 | 71 | 13 | 67.00011 | 32.63583 | 72 | 14 | 67.00020 | 32.63573 |
| 73 | 15 | 67.00035 | 32.63557 | 74 | 16 | 67.00053 | 32.63537 | 75 | 17 | 67.00093 | 32.63525 |
| 76 | 18 | 67.00097 | 32.63483 | 77 | 19 | 67.00118 | 32.63448 | 78 | 20 | 67.00140 | 32.63420 |
| 79 | 21 | 67.00163 | 32.63394 | 80 | 22 | 67.00198 | 32.63365 | 81 | 23 | 67.00220 | 32.63322 |
| 82 | 24 | 67.00233 | 32.63280 | 83 | 25 | 67.00245 | 32.63202 | 84 | 26 | 67.00354 | 32.63144 |
| 85 | 27 | 67.00350 | 32.63171 | 86 | 28 | 67.00346 | 32.63195 | 87 | 29 | 67.00342 | 32.63240 |
| 88 | 30 | 67.00339 | 32.63277 | 89 | 31 | 67.00329 | 32.63344 | 90 | 32 | 67.00321 | 32.63426 |
| 91 | 33 | 67.00321 | 32.63472 | 92 | 34 | 67.00314 | 32.63508 | 93 | 35 | 67.00306 | 32.63546 |
| 94 | 36 | 67.00285 | 32.63634 | 95 | 37 | 67.00282 | 32.63660 | 96 | 38 | 67.00278 | 32.63702 |
| 97 | 39 | 67.00276 | 32.63738 | 98 | 40 | 67.00260 | 32.63787 | 99 | 41 | 67.00239 | 32.63844 |
| 100 | 42 | 67.00176 | 32.64020 | 101 | 43 | 67.00095 | 32.64117 | 102 | 44 | 67.00076 | 32.64138 |
| 103 | 45 | 67.00037 | 32.64180 | 104 | 46 | 67.00009 | 32.64171 | 105 | 47 | 66.99985 | 32.64147 |
| 106 | 48 | 66.99979 | 32.64110 | 107 | 49 | 66.99965 | 32.64063 | 108 | 50 | 66.99954 | 32.64004 |
| 109 | 51 | 66.99936 | 32.63943 | 110 | 52 | 66.99814 | 32.63788 | 111 | 53 | 66.99738 | 32.63692 |
| 112 | 1 | 67.00354 | 32.63144 | 113 | 2 | 67.00245 | 32.63202 | 114 | 3 | 67.00183 | 32.63125 |
| 115 | 4 | 67.00131 | 32.63053 | 116 | 5 | 67.00089 | 32.62988 | 117 | 6 | 67.00071 | 32.62960 |
| 118 | 7 | 67.00020 | 32.63040 | 119 | 8 | 66.99989 | 32.63089 | 120 | 9 | 66.99972 | 32.63126 |
| 121 | 10 | 66.99935 | 32.63149 | 122 | 11 | 66.99891 | 32.63165 | 123 | 12 | 66.99864 | 32.63197 |
| 124 | 13 | 66.99843 | 32.63210 | 125 | 14 | 66.99828 | 32.63234 | 126 | 15 | 66.99816 | 32.63264 |
| 127 | 16 | 66.99796 | 32.63269 | 128 | 17 | 66.99772 | 32.63248 | 129 | 18 | 66.99765 | 32.63220 |
| 130 | 19 | 66.99759 | 32.63192 | 131 | 20 | 66.99744 | 32.63172 | 132 | 21 | 66.99749 | 32.63125 |
| 133 | 22 | 66.99744 | 32.63101 | 134 | 23 | 66.99740 | 32.63074 | 135 | 24 | 66.99742 | 32.63020 |
| 136 | 25 | 66.99758 | 32.62977 | 137 | 26 | 66.99778 | 32.62930 | 138 | 27 | 66.99789 | 32.62890 |
| 139 | 28 | 66.99811 | 32.62858 | 140 | 29 | 66.99845 | 32.62834 | 141 | 30 | 66.99887 | 32.62834 |
| 142 | 31 | 66.99941 | 32.62834 | 143 | 32 | 66.99978 | 32.62812 | 144 | 33 | 66.99997 | 32.62776 |
| 145 | 34 | 66.99997 | 32.62735 | 146 | 35 | 66.99996 | 32.62686 | 147 | 36 | 66.99992 | 32.62644 |
| 148 | 37 | 66.99973 | 32.62615 | 149 | 38 | 66.99935 | 32.62596 | 150 | 39 | 66.99896 | 32.62586 |
| 151 | 40 | 66.99873 | 32.62582 | 152 | 41 | 66.99838 | 32.62580 | 153 | 42 | 66.99814 | 32.62578 |
| 154 | 43 | 66.99795 | 32.62576 | 155 | 44 | 66.99750 | 32.62563 | 156 | 45 | 66.99749 | 32.62563 |
| 157 | 46 | 66.99869 | 32.62455 | 158 | 47 | 66.99930 | 32.62505 | 159 | 48 | 66.99971 | 32.62541 |
| 160 | 49 | 67.00003 | 32.62541 | 161 | 50 | 67.00036 | 32.62533 | 162 | 51 | 67.00062 | 32.62529 |
| 163 | 52 | 67.00085 | 32.62537 | 164 | 53 | 67.00106 | 32.62540 | 165 | 54 | 67.00131 | 32.62532 |
| 166 | 55 | 67.00162 | 32.62504 | 167 | 56 | 67.00176 | 32.62478 | 168 | 57 | 67.00200 | 32.62453 |
| 169 | 58 | 67.00220 | 32.62425 | 170 | 59 | 67.00239 | 32.62399 | 171 | 60 | 67.00261 | 32.62375 |
| 172 | 61 | 67.00278 | 32.62354 | 173 | 62 | 67.00324 | 32.62301 | 174 | 63 | 67.00362 | 32.62251 |
| 175 | 64 | 67.00403 | 32.62199 | 176 | 65 | 67.00446 | 32.62161 | 177 | 66 | 67.00474 | 32.62137 |
| 178 | 67 | 67.00509 | 32.62117 | 179 | 68 | 67.00541 | 32.62103 | 180 | 69 | 67.00562 | 32.62107 |
| 181 | 70 | 67.00589 | 32.62145 | 182 | 71 | 67.00602 | 32.62191 | 183 | 72 | 67.00616 | 32.62233 |
| 184 | 73 | 67.00630 | 32.62306 | 185 | 74 | 67.00644 | 32.62336 | 186 | 75 | 67.00661 | 32.62391 |
| 187 | 76 | 67.00671 | 32.62418 | 188 | 77 | 67.00698 | 32.62445 | 189 | 78 | 67.00704 | 32.62441 |
| 190 | 79 | 67.00704 | 32.62442 | 191 | 80 | 67.00697 | 32.62445 | 192 | 81 | 67.00497 | 32.62872 |
| 193 | 82 | 67.00443 | 32.62926 | 194 | 83 | 67.00392 | 32.63004 | 195 | 84 | 67.00368 | 32.63070 |
| 196 | 85 | 67.00357 | 32.63131 | 197 | 86 | 67.00358 | 32.63120 | 198 | 87 | 67.00354 | 32.63144 |
| 199 | 1 | 67.00697 | 32.62445 | 200 | 2 | 67.00837 | 32.62375 | 201 | 3 | 67.00704 | 32.62441 |
| 202 | 4 | 67.00830 | 32.62411 | 203 | 5 | 67.00833 | 32.62333 | 204 | 6 | 67.00865 | 32.62196 |
| 205 | 7 | 67.00907 | 32.62097 | 206 | 8 | 67.00964 | 32.62044 | 207 | 9 | 67.01052 | 32.62065 |
| 208 | 10 | 67.01133 | 32.62055 | 209 | 11 | 67.01203 | 32.62023 | 210 | 12 | 67.01253 | 32.61935 |
| 211 | 13 | 67.01295 | 32.61843 | 212 | 14 | 67.01372 | 32.61741 | 213 | 15 | 67.01443 | 32.61624 |
| 214 | 16 | 67.01751 | 32.61672 | 215 | 17 | 67.01717 | 32.61766 | 216 | 18 | 67.01665 | 32.61905 |
| 217 | 19 | 67.01594 | 32.62091 | 218 | 20 | 67.01555 | 32.62192 | 219 | 21 | 67.01491 | 32.62342 |
| 220 | 22 | 67.01442 | 32.62444 | 221 | 23 | 67.01399 | 32.62521 | 222 | 24 | 67.01325 | 32.62662 |
| 223 | 25 | 67.01280 | 32.62742 | 224 | 26 | 67.01240 | 32.62813 | 225 | 27 | 67.01201 | 32.62888 |
| 226 | 28 | 67.01150 | 32.62944 | 227 | 29 | 67.01103 | 32.62976 | 228 | 30 | 67.01052 | 32.62960 |
| 229 | 31 | 67.00983 | 32.62948 | 230 | 32 | 67.00954 | 32.63002 | 231 | 33 | 67.00956 | 32.63121 |
| 232 | 34 | 67.00963 | 32.63373 | 233 | 35 | 67.01062 | 32.63553 | 234 | 36 | 67.01031 | 32.63743 |
| 235 | 37 | 67.01007 | 32.63889 | 236 | 38 | 67.01086 | 32.63941 | 237 | 39 | 67.01076 | 32.64032 |
| 238 | 40 | 67.01048 | 32.64127 | 239 | 41 | 67.00992 | 32.64205 | 240 | 42 | 67.00964 | 32.64254 |
| 241 | 43 | 67.00879 | 32.64296 | 242 | 44 | 67.00787 | 32.64335 | 243 | 45 | 67.00720 | 32.64360 |
| 244 | 46 | 67.00675 | 32.64385 | 245 | 47 | 67.00618 | 32.64377 | 246 | 48 | 67.00593 | 32.64321 |
| 247 | 49 | 67.00551 | 32.64247 | 248 | 50 | 67.00526 | 32.64201 | 249 | 51 | 67.00491 | 32.64145 |
| 250 | 52 | 67.00456 | 32.64088 | 251 | 53 | 67.00410 | 32.64078 | 252 | 54 | 67.00414 | 32.64081 |
| 253 | 55 | 67.00309 | 32.64051 | 254 | 56 | 67.00259 | 32.64142 | 255 | 57 | 67.00284 | 32.64096 |
| 256 | 58 | 67.00260 | 32.64139 | 257 | 59 | 67.00346 | 32.63989 | 258 | 60 | 67.00373 | 32.63900 |
| 259 | 61 | 67.00408 | 32.63811 | 260 | 62 | 67.00439 | 32.63711 | 261 | 63 | 67.00468 | 32.63623 |
| 262 | 64 | 67.00507 | 32.63530 | 263 | 65 | 67.00524 | 32.63463 | 264 | 66 | 67.00550 | 32.63367 |
| 265 | 67 | 67.00565 | 32.63310 | 266 | 68 | 67.00583 | 32.63244 | 267 | 69 | 67.00611 | 32.63178 |
| 268 | 70 | 67.00621 | 32.63118 | 269 | 71 | 67.00618 | 32.62945 | 270 | 72 | 67.00574 | 32.62862 |
| 271 | 73 | 67.00504 | 32.62865 | 272 | 74 | 67.00697 | 32.62445 | 273 | 1 | 67.01751 | 32.61672 |
| 274 | 2 | 67.01443 | 32.61624 | 275 | 3 | 67.01530 | 32.61444 | 276 | 4 | 67.01628 | 32.61287 |
| 277 | 5 | 67.01734 | 32.61128 | 278 | 6 | 67.01817 | 32.60983 | 279 | 7 | 67.01878 | 32.60858 |
| 280 | 8 | 67.01938 | 32.60771 | 281 | 9 | 67.02153 | 32.60316 | 282 | 10 | 67.02255 | 32.60106 |
| 283 | 11 | 67.02325 | 32.59950 | 284 | 12 | 67.02422 | 32.59793 | 285 | 13 | 67.02544 | 32.59534 |
| 286 | 14 | 67.02612 | 32.59424 | 287 | 15 | 67.02752 | 32.59414 | 288 | 16 | 67.02654 | 32.59553 |
| 289 | 17 | 67.02546 | 32.59701 | 290 | 18 | 67.02518 | 32.59780 | 291 | 19 | 67.02498 | 32.59918 |
| 292 | 20 | 67.02368 | 32.60203 | 293 | 21 | 67.02220 | 32.60567 | 294 | 22 | 67.02158 | 32.60724 |
| 295 | 23 | 67.02018 | 32.61041 | 296 | 24 | 67.01850 | 32.61423 | 297 | 25 | 67.01751 | 32.61672 |
| 298 | 26 | 67.01763 | 32.61642 | 299 | 27 | 67.01751 | 32.61672 | 300 | 1 | 67.02612 | 32.59424 |
| 301 | 2 | 67.02637 | 32.59372 | 302 | 3 | 67.02646 | 32.59356 | 303 | 4 | 67.02695 | 32.59278 |
| 304 | 5 | 67.02756 | 32.59176 | 305 | 6 | 67.02807 | 32.59097 | 306 | 7 | 67.02897 | 32.58926 |
| 307 | 8 | 67.02926 | 32.58862 | 308 | 9 | 67.02965 | 32.58794 | 309 | 10 | 67.03011 | 32.58726 |
| 310 | 11 | 67.03071 | 32.58637 | 311 | 12 | 67.03130 | 32.58550 | 312 | 13 | 67.03162 | 32.58465 |
| 313 | 14 | 67.03207 | 32.58354 | 314 | 15 | 67.03226 | 32.58269 | 315 | 16 | 67.03296 | 32.58275 |
| 316 | 17 | 67.03334 | 32.58300 | 317 | 18 | 67.03373 | 32.58288 | 318 | 19 | 67.03412 | 32.58271 |
| 319 | 20 | 67.03484 | 32.58147 | 320 | 21 | 67.03518 | 32.58075 | 321 | 22 | 67.03555 | 32.58001 |
| 322 | 23 | 67.03575 | 32.57941 | 323 | 24 | 67.03595 | 32.57863 | 324 | 25 | 67.03651 | 32.57781 |
| 325 | 26 | 67.03683 | 32.57759 | 326 | 27 | 67.03713 | 32.57666 | 327 | 28 | 67.03742 | 32.57594 |
| 328 | 29 | 67.03772 | 32.57545 | 329 | 30 | 67.03819 | 32.57498 | 330 | 31 | 67.03859 | 32.57515 |
| 331 | 32 | 67.03796 | 32.57802 | 332 | 33 | 67.03752 | 32.58014 | 333 | 34 | 67.03699 | 32.58219 |
| 334 | 35 | 67.03532 | 32.58665 | 335 | 36 | 67.03409 | 32.58929 | 336 | 37 | 67.03285 | 32.59161 |
| 337 | 38 | 67.03148 | 32.59375 | 338 | 39 | 67.03037 | 32.59492 | 339 | 40 | 67.02944 | 32.59564 |
| 340 | 41 | 67.02875 | 32.59400 | 341 | 42 | 67.02799 | 32.59355 | 342 | 43 | 67.02752 | 32.59414 |
| 343 | 44 | 67.02612 | 32.59424 | 344 | 1 | 67.00033 | 32.66407 | 345 | 2 | 67.00089 | 32.66636 |
| 346 | 3 | 67.00159 | 32.66846 | 347 | 4 | 67.00184 | 32.67043 | 348 | 5 | 67.00108 | 32.67107 |
| 349 | 6 | 67.00050 | 32.67209 | 350 | 7 | 67.00082 | 32.67552 | 351 | 8 | 67.00069 | 32.67692 |
| 352 | 9 | 66.99980 | 32.67839 | 353 | 10 | 66.99821 | 32.68030 | 354 | 11 | 66.99700 | 32.68119 |
| 355 | 12 | 66.99630 | 32.68259 | 356 | 13 | 66.99599 | 32.68392 | 357 | 14 | 66.99465 | 32.68519 |
| 358 | 15 | 66.99331 | 32.68679 | 359 | 16 | 66.99204 | 32.68863 | 360 | 17 | 66.99102 | 32.69009 |
| 361 | 18 | 66.99013 | 32.69105 | 362 | 19 | 66.98911 | 32.69238 | 363 | 20 | 66.98822 | 32.69429 |
| 364 | 21 | 66.98873 | 32.69124 | 365 | 22 | 66.98950 | 32.68997 | 366 | 23 | 66.98962 | 32.68876 |
| 367 | 24 | 66.99032 | 32.68685 | 368 | 25 | 66.99217 | 32.68621 | 369 | 26 | 66.99300 | 32.68570 |
| 370 | 27 | 66.99370 | 32.68405 | 371 | 28 | 66.99427 | 32.68322 | 372 | 29 | 66.99478 | 32.68252 |
| 373 | 30 | 66.99535 | 32.68119 | 374 | 31 | 66.99605 | 32.67909 | 375 | 32 | 66.99630 | 32.67762 |
| 376 | 33 | 66.99688 | 32.67584 | 377 | 34 | 66.99713 | 32.67521 | 378 | 35 | 66.99770 | 32.67470 |
| 379 | 36 | 66.99796 | 32.67406 | 380 | 37 | 66.99840 | 32.67279 | 381 | 38 | 66.99847 | 32.67107 |
| 382 | 39 | 66.99929 | 32.66922 | 383 | 40 | 66.99999 | 32.66872 | 384 | 41 | 66.99949 | 32.66700 |
| 385 | 42 | 66.99968 | 32.66617 | 386 | 43 | 67.00010 | 32.66421 | 387 | 44 | 67.00033 | 32.66407 |
| 388 | 1 | 66.99499 | 32.61050 | 389 | 2 | 66.99389 | 32.60921 | 390 | 3 | 66.99509 | 32.60478 |
| 391 | 4 | 66.99626 | 32.60361 | 392 | 5 | 66.99633 | 32.60357 | 393 | 6 | 66.99705 | 32.60268 |
| 394 | 7 | 66.99709 | 32.60182 | 395 | 8 | 66.99738 | 32.60087 | 396 | 9 | 66.99802 | 32.59989 |
| 397 | 10 | 66.99850 | 32.59917 | 398 | 11 | 66.99901 | 32.59840 | 399 | 12 | 66.99921 | 32.59768 |
| 400 | 13 | 66.99942 | 32.59692 | 401 | 14 | 67.00000 | 32.59577 | 402 | 15 | 67.00000 | 32.59494 |
| 403 | 16 | 67.00066 | 32.59412 | 404 | 17 | 67.00173 | 32.59428 | 405 | 18 | 67.00164 | 32.59470 |
| 406 | 19 | 67.00156 | 32.59535 | 407 | 20 | 67.00100 | 32.59606 | 408 | 21 | 67.00087 | 32.59654 |
| 409 | 22 | 67.00057 | 32.59739 | 410 | 23 | 67.00084 | 32.59887 | 411 | 24 | 67.00086 | 32.59923 |
| 412 | 25 | 67.00093 | 32.59973 | 413 | 26 | 67.00099 | 32.60050 | 414 | 27 | 67.00125 | 32.60150 |
| 415 | 28 | 67.00127 | 32.60204 | 416 | 29 | 67.00062 | 32.60288 | 417 | 30 | 66.99946 | 32.60367 |
| 418 | 31 | 66.99830 | 32.60489 | 419 | 32 | 66.99499 | 32.61050 | 420 | 1 | 66.98196 | 32.60885 |
| 421 | 2 | 66.98188 | 32.61045 | 422 | 3 | 66.98140 | 32.61108 | 423 | 4 | 66.98092 | 32.61156 |
| 424 | 5 | 66.97973 | 32.61108 | 425 | 6 | 66.97909 | 32.61021 | 426 | 7 | 66.97877 | 32.60885 |
| 427 | 8 | 66.97901 | 32.60726 | 428 | 9 | 66.97933 | 32.60631 | 429 | 10 | 66.98015 | 32.60450 |
| 430 | 11 | 66.98120 | 32.60481 | 431 | 12 | 66.98140 | 32.60631 | 432 | 13 | 66.98196 | 32.60782 |
| 433 | 14 | 66.98196 | 32.60885 | 434 | 1 | 66.96511 | 32.60408 | 435 | 2 | 66.96462 | 32.60348 |
| 436 | 3 | 66.96461 | 32.60281 | 437 | 4 | 66.96488 | 32.60257 | 438 | 5 | 66.96567 | 32.60260 |
| 439 | 6 | 66.96641 | 32.60198 | 440 | 7 | 66.96712 | 32.60101 | 441 | 8 | 66.96750 | 32.59978 |
| 442 | 9 | 66.96788 | 32.59948 | 443 | 10 | 66.96812 | 32.59863 | 444 | 11 | 66.96853 | 32.59765 |
| 445 | 12 | 66.96912 | 32.59668 | 446 | 13 | 66.97018 | 32.59565 | 447 | 14 | 66.97065 | 32.59542 |
| 448 | 15 | 66.97139 | 32.59494 | 449 | 16 | 66.97207 | 32.59447 | 450 | 17 | 66.97265 | 32.59356 |
| 451 | 18 | 66.97336 | 32.59268 | 452 | 19 | 66.97404 | 32.59206 | 453 | 20 | 66.97442 | 32.59129 |
| 454 | 21 | 66.97525 | 32.59014 | 455 | 22 | 66.97589 | 32.58914 | 456 | 23 | 66.97784 | 32.59044 |
| 457 | 24 | 66.97802 | 32.59114 | 458 | 25 | 66.97791 | 32.59128 | 459 | 26 | 66.97742 | 32.59194 |
| 460 | 27 | 66.97660 | 32.59256 | 461 | 28 | 66.97565 | 32.59337 | 462 | 29 | 66.97498 | 32.59383 |
| 463 | 30 | 66.97422 | 32.59394 | 464 | 31 | 66.97381 | 32.59419 | 465 | 32 | 66.97356 | 32.59467 |
| 466 | 33 | 66.97322 | 32.59521 | 467 | 34 | 66.97306 | 32.59589 | 468 | 35 | 66.97274 | 32.59655 |
| 469 | 36 | 66.97247 | 32.59682 | 470 | 37 | 66.97215 | 32.59715 | 471 | 38 | 66.97155 | 32.59754 |
| 472 | 39 | 66.97075 | 32.59758 | 473 | 40 | 66.96984 | 32.59741 | 474 | 41 | 66.96968 | 32.59840 |
| 475 | 42 | 66.96968 | 32.59869 | 476 | 43 | 66.96968 | 32.59956 | 477 | 44 | 66.96968 | 32.60030 |
| 478 | 45 | 66.96909 | 32.60090 | 479 | 46 | 66.96860 | 32.60180 | 480 | 47 | 66.96803 | 32.60260 |
| 481 | 48 | 66.96721 | 32.60335 | 482 | 49 | 66.96630 | 32.60409 | 483 | 50 | 66.96615 | 32.60486 |
| 484 | 51 | 66.96603 | 32.60545 | 485 | 52 | 66.96573 | 32.60634 | 486 | 53 | 66.96520 | 32.60531 |
| 487 | 54 | 66.96523 | 32.60472 | 488 | 55 | 66.96511 | 32.60408 | 489 | 1 | 66.97589 | 32.58914 |
| 490 | 2 | 66.97631 | 32.58942 | 491 | 3 | 66.97593 | 32.58917 | 492 | 4 | 66.97636 | 32.58844 |
| 493 | 5 | 66.97702 | 32.58724 | 494 | 6 | 66.97765 | 32.58521 | 495 | 7 | 66.97881 | 32.58297 |
| 496 | 8 | 66.97964 | 32.58064 | 497 | 9 | 66.98039 | 32.57860 | 498 | 10 | 66.98179 | 32.57835 |
| 499 | 11 | 66.98184 | 32.58005 | 500 | 12 | 66.98258 | 32.57957 | 501 | 13 | 66.98385 | 32.58190 |
| 502 | 14 | 66.98363 | 32.58222 | 503 | 15 | 66.98331 | 32.58278 | 504 | 16 | 66.98317 | 32.58333 |
| 505 | 17 | 66.98284 | 32.58396 | 506 | 18 | 66.98214 | 32.58436 | 507 | 19 | 66.98183 | 32.58461 |
| 508 | 20 | 66.98141 | 32.58510 | 509 | 21 | 66.98104 | 32.58559 | 510 | 22 | 66.98082 | 32.58630 |
| 511 | 23 | 66.98035 | 32.58673 | 512 | 24 | 66.97960 | 32.58693 | 513 | 25 | 66.97943 | 32.58735 |
| 514 | 26 | 66.97901 | 32.58873 | 515 | 27 | 66.97909 | 32.58903 | 516 | 28 | 66.97899 | 32.58944 |
| 517 | 29 | 66.97892 | 32.58976 | 518 | 30 | 66.97894 | 32.59020 | 519 | 31 | 66.97891 | 32.59040 |
| 520 | 32 | 66.97875 | 32.59071 | 521 | 33 | 66.97860 | 32.59100 | 522 | 34 | 66.97814 | 32.59098 |
| 523 | 35 | 66.97802 | 32.59114 | 524 | 36 | 66.97784 | 32.59044 | 525 | 37 | 66.97589 | 32.58914 |
| 526 | 1 | 66.98262 | 32.57964 | 527 | 2 | 66.98258 | 32.57957 | 528 | 3 | 66.98259 | 32.57959 |
| 529 | 4 | 66.98335 | 32.57893 | 530 | 5 | 66.98414 | 32.57831 | 531 | 6 | 66.98473 | 32.57767 |
| 532 | 7 | 66.98532 | 32.57696 | 533 | 8 | 66.98610 | 32.57618 | 534 | 9 | 66.98689 | 32.57556 |
| 535 | 10 | 66.98758 | 32.57461 | 536 | 11 | 66.98817 | 32.57488 | 537 | 12 | 66.98868 | 32.57478 |
| 538 | 13 | 66.98893 | 32.57434 | 539 | 14 | 66.98907 | 32.57397 | 540 | 15 | 66.98920 | 32.57331 |
| 541 | 16 | 66.98925 | 32.57306 | 542 | 17 | 66.98976 | 32.57269 | 543 | 18 | 66.98991 | 32.57225 |
| 544 | 19 | 66.99042 | 32.57159 | 545 | 20 | 66.99082 | 32.57173 | 546 | 21 | 66.99119 | 32.57129 |
| 547 | 22 | 66.99163 | 32.57063 | 548 | 23 | 66.99209 | 32.57083 | 549 | 24 | 66.99254 | 32.57100 |
| 550 | 25 | 66.99288 | 32.57102 | 551 | 26 | 66.99325 | 32.57110 | 552 | 27 | 66.99357 | 32.57112 |
| 553 | 28 | 66.99416 | 32.57043 | 554 | 29 | 66.99447 | 32.56994 | 555 | 30 | 66.99457 | 32.56923 |
| 556 | 31 | 66.99472 | 32.56876 | 557 | 32 | 66.99494 | 32.56837 | 558 | 33 | 66.99538 | 32.56786 |
| 559 | 34 | 66.99602 | 32.56712 | 560 | 35 | 66.99624 | 32.56626 | 561 | 36 | 66.99641 | 32.56550 |
| 562 | 37 | 66.99659 | 32.56471 | 563 | 38 | 66.99690 | 32.56408 | 564 | 39 | 66.99710 | 32.56363 |
| 565 | 40 | 66.99749 | 32.56368 | 566 | 41 | 66.99801 | 32.56275 | 567 | 42 | 66.99848 | 32.56216 |
| 568 | 43 | 66.99906 | 32.56155 | 569 | 44 | 66.99988 | 32.56204 | 570 | 45 | 66.99965 | 32.56248 |
| 571 | 46 | 66.99938 | 32.56310 | 572 | 47 | 66.99891 | 32.56417 | 573 | 48 | 66.99863 | 32.56476 |
| 574 | 49 | 66.99842 | 32.56515 | 575 | 50 | 66.99822 | 32.56568 | 576 | 51 | 66.99779 | 32.56642 |
| 577 | 52 | 66.99750 | 32.56703 | 578 | 53 | 66.99740 | 32.56752 | 579 | 54 | 66.99713 | 32.56823 |
| 580 | 55 | 66.99678 | 32.56906 | 581 | 56 | 66.99653 | 32.56987 | 582 | 57 | 66.99623 | 32.57066 |
| 583 | 58 | 66.99585 | 32.57127 | 584 | 59 | 66.99532 | 32.57206 | 585 | 60 | 66.99477 | 32.57256 |
| 586 | 61 | 66.99401 | 32.57270 | 587 | 62 | 66.99313 | 32.57321 | 588 | 63 | 66.99286 | 32.57363 |
| 589 | 64 | 66.99246 | 32.57414 | 590 | 65 | 66.99232 | 32.57512 | 591 | 66 | 66.99181 | 32.57538 |
| 592 | 67 | 66.99159 | 32.57570 | 593 | 68 | 66.99106 | 32.57620 | 594 | 69 | 66.99037 | 32.57647 |
| 595 | 70 | 66.98997 | 32.57686 | 596 | 71 | 66.98954 | 32.57716 | 597 | 72 | 66.98897 | 32.57765 |
| 598 | 73 | 66.98858 | 32.57787 | 599 | 74 | 66.98810 | 32.57825 | 600 | 75 | 66.98761 | 32.57868 |
| 601 | 76 | 66.98724 | 32.57902 | 602 | 77 | 66.98680 | 32.57948 | 603 | 78 | 66.98648 | 32.57961 |
| 604 | 79 | 66.98607 | 32.57989 | 605 | 80 | 66.98556 | 32.58026 | 606 | 81 | 66.98517 | 32.58046 |
| 607 | 82 | 66.98507 | 32.58114 | 608 | 83 | 66.98504 | 32.58148 | 609 | 84 | 66.98487 | 32.58185 |
| 610 | 85 | 66.98468 | 32.58205 | 611 | 86 | 66.98431 | 32.58197 | 612 | 87 | 66.98385 | 32.58190 |
| 613 | 88 | 66.98262 | 32.57964 | 614 | 1 | 67.01749 | 32.52309 | 615 | 2 | 67.01751 | 32.52262 |
| 616 | 3 | 67.01767 | 32.52220 | 617 | 4 | 67.01775 | 32.52142 | 618 | 5 | 67.01777 | 32.52104 |
| 619 | 6 | 67.01783 | 32.52057 | 620 | 7 | 67.01759 | 32.52032 | 621 | 8 | 67.01722 | 32.52047 |
| 622 | 9 | 67.01689 | 32.52081 | 623 | 10 | 67.01610 | 32.52034 | 624 | 11 | 67.01559 | 32.51994 |
| 625 | 12 | 67.01566 | 32.51974 | 626 | 13 | 67.01584 | 32.51929 | 627 | 14 | 67.01609 | 32.51892 |
| 628 | 15 | 67.01630 | 32.51848 | 629 | 16 | 67.01647 | 32.51809 | 630 | 17 | 67.01662 | 32.51770 |
| 631 | 18 | 67.01685 | 32.51741 | 632 | 19 | 67.01702 | 32.51712 | 633 | 20 | 67.01712 | 32.51693 |
| 634 | 21 | 67.01736 | 32.51659 | 635 | 22 | 67.01764 | 32.51635 | 636 | 23 | 67.01817 | 32.51630 |
| 637 | 24 | 67.01868 | 32.51650 | 638 | 25 | 67.01901 | 32.51702 | 639 | 26 | 67.01918 | 32.51731 |
| 640 | 27 | 67.01938 | 32.51762 | 641 | 28 | 67.01959 | 32.51829 | 642 | 29 | 67.01969 | 32.51868 |
| 643 | 30 | 67.01956 | 32.51907 | 644 | 31 | 67.01965 | 32.51946 | 645 | 32 | 67.01961 | 32.52012 |
| 646 | 33 | 67.01945 | 32.52060 | 647 | 34 | 67.01929 | 32.52116 | 648 | 35 | 67.01921 | 32.52164 |
| 649 | 36 | 67.01907 | 32.52216 | 650 | 37 | 67.01873 | 32.52279 | 651 | 38 | 67.01837 | 32.52322 |
| 652 | 39 | 67.01749 | 32.52309 | 653 | 1 | 67.01689 | 32.52081 | 654 | 2 | 67.01655 | 32.52132 |
| 655 | 3 | 67.01596 | 32.52179 | 656 | 4 | 67.01566 | 32.52255 | 657 | 5 | 67.01547 | 32.52319 |
| 658 | 6 | 67.01478 | 32.52417 | 659 | 7 | 67.01419 | 32.52520 | 660 | 8 | 67.01360 | 32.52648 |
| 661 | 9 | 67.01299 | 32.52743 | 662 | 10 | 67.01240 | 32.52866 | 663 | 11 | 67.01205 | 32.52959 |
| 664 | 12 | 67.01142 | 32.53085 | 665 | 13 | 67.01090 | 32.53156 | 666 | 14 | 67.01056 | 32.53242 |
| 667 | 15 | 67.00999 | 32.53291 | 668 | 16 | 67.00933 | 32.53330 | 669 | 17 | 67.00901 | 32.53394 |
| 670 | 18 | 67.00782 | 32.53323 | 671 | 19 | 67.00814 | 32.53267 | 672 | 20 | 67.00838 | 32.53240 |
| 673 | 21 | 67.00865 | 32.53169 | 674 | 22 | 67.00870 | 32.53101 | 675 | 23 | 67.00872 | 32.53042 |
| 676 | 24 | 67.00872 | 32.52976 | 677 | 25 | 67.00887 | 32.52935 | 678 | 26 | 67.00909 | 32.52881 |
| 679 | 27 | 67.00968 | 32.52807 | 680 | 28 | 67.01019 | 32.52734 | 681 | 29 | 67.01068 | 32.52715 |
| 682 | 30 | 67.01173 | 32.52566 | 683 | 31 | 67.01224 | 32.52512 | 684 | 32 | 67.01248 | 32.52451 |
| 685 | 33 | 67.01278 | 32.52395 | 686 | 34 | 67.01300 | 32.52324 | 687 | 35 | 67.01341 | 32.52273 |
| 688 | 36 | 67.01424 | 32.52193 | 689 | 37 | 67.01451 | 32.52131 | 690 | 38 | 67.01471 | 32.52105 |
| 691 | 39 | 67.01524 | 32.52044 | 692 | 40 | 67.01563 | 32.51987 | 693 | 41 | 67.01610 | 32.52034 |
| 694 | 42 | 67.01689 | 32.52081 | 695 | 1 | 67.00054 | 32.55021 | 696 | 2 | 67.00039 | 32.55089 |
| 697 | 3 | 67.00030 | 32.55140 | 698 | 4 | 66.99966 | 32.55246 | 699 | 5 | 66.99904 | 32.55428 |
| 700 | 6 | 66.99838 | 32.55533 | 701 | 7 | 66.99777 | 32.55705 | 702 | 8 | 66.99742 | 32.55784 |
| 703 | 9 | 66.99719 | 32.55812 | 704 | 10 | 66.99666 | 32.55835 | 705 | 11 | 66.99627 | 32.55874 |
| 706 | 12 | 66.99593 | 32.55904 | 707 | 13 | 66.99585 | 32.55946 | 708 | 14 | 66.99563 | 32.55992 |
| 709 | 15 | 66.99534 | 32.56078 | 710 | 16 | 66.99514 | 32.56115 | 711 | 17 | 66.99495 | 32.56149 |
| 712 | 18 | 66.99470 | 32.56201 | 713 | 19 | 66.99433 | 32.56238 | 714 | 20 | 66.99362 | 32.56216 |
| 715 | 21 | 66.99325 | 32.56189 | 716 | 22 | 66.99269 | 32.56216 | 717 | 23 | 66.99132 | 32.55978 |
| 718 | 24 | 66.99159 | 32.55948 | 719 | 25 | 66.99178 | 32.55929 | 720 | 26 | 66.99195 | 32.55890 |
| 721 | 27 | 66.99208 | 32.55865 | 722 | 28 | 66.99230 | 32.55857 | 723 | 29 | 66.99266 | 32.55838 |
| 724 | 30 | 66.99288 | 32.55811 | 725 | 31 | 66.99327 | 32.55775 | 726 | 32 | 66.99352 | 32.55748 |
| 727 | 33 | 66.99371 | 32.55709 | 728 | 34 | 66.99398 | 32.55692 | 729 | 35 | 66.99441 | 32.55677 |
| 730 | 36 | 66.99498 | 32.55636 | 731 | 37 | 66.99519 | 32.55643 | 732 | 38 | 66.99538 | 32.55656 |
| 733 | 39 | 66.99569 | 32.55676 | 734 | 40 | 66.99618 | 32.55680 | 735 | 41 | 66.99666 | 32.55668 |
| 736 | 42 | 66.99708 | 32.55594 | 737 | 43 | 66.99730 | 32.55541 | 738 | 44 | 66.99747 | 32.55448 |
| 739 | 45 | 66.99757 | 32.55387 | 740 | 46 | 66.99771 | 32.55332 | 741 | 47 | 66.99775 | 32.55304 |
| 742 | 48 | 66.99776 | 32.55272 | 743 | 49 | 66.99774 | 32.55216 | 744 | 50 | 66.99774 | 32.55189 |
| 745 | 51 | 66.99784 | 32.55121 | 746 | 52 | 66.99796 | 32.55072 | 747 | 53 | 66.99806 | 32.55033 |
| 748 | 54 | 66.99825 | 32.55004 | 749 | 55 | 66.99863 | 32.54980 | 750 | 56 | 66.99913 | 32.54930 |
| 751 | 57 | 67.00054 | 32.55021 | 752 | 1 | 66.99269 | 32.56216 | 753 | 2 | 66.99268 | 32.56214 |
| 754 | 3 | 66.99208 | 32.56242 | 755 | 4 | 66.99159 | 32.56193 | 756 | 5 | 66.99131 | 32.56221 |
| 757 | 6 | 66.99111 | 32.56251 | 758 | 7 | 66.99055 | 32.56276 | 759 | 8 | 66.98997 | 32.56353 |
| 760 | 9 | 66.98905 | 32.56452 | 761 | 10 | 66.98840 | 32.56545 | 762 | 11 | 66.98785 | 32.56628 |
| 763 | 12 | 66.98748 | 32.56706 | 764 | 13 | 66.98699 | 32.56773 | 765 | 14 | 66.98554 | 32.56673 |
| 766 | 15 | 66.98565 | 32.56666 | 767 | 16 | 66.98579 | 32.56597 | 768 | 17 | 66.98580 | 32.56561 |
| 769 | 18 | 66.98573 | 32.56515 | 770 | 19 | 66.98551 | 32.56485 | 771 | 20 | 66.98523 | 32.56420 |
| 772 | 21 | 66.98515 | 32.56373 | 773 | 22 | 66.98524 | 32.56307 | 774 | 23 | 66.98544 | 32.56271 |
| 775 | 24 | 66.98556 | 32.56234 | 776 | 25 | 66.98577 | 32.56206 | 777 | 26 | 66.98605 | 32.56141 |
| 778 | 27 | 66.98641 | 32.56120 | 779 | 28 | 66.98702 | 32.56090 | 780 | 29 | 66.98738 | 32.56071 |
| 781 | 30 | 66.98775 | 32.56050 | 782 | 31 | 66.98825 | 32.56019 | 783 | 32 | 66.98863 | 32.55999 |
| 784 | 33 | 66.98904 | 32.55980 | 785 | 34 | 66.98934 | 32.55970 | 786 | 35 | 66.99003 | 32.55961 |
| 787 | 36 | 66.99031 | 32.55970 | 788 | 37 | 66.99059 | 32.55980 | 789 | 38 | 66.99089 | 32.55979 |
| 790 | 39 | 66.99132 | 32.55978 | 791 | 40 | 66.99269 | 32.56216 | 792 | 1 | 66.98691 | 32.56768 |
| 793 | 2 | 66.98629 | 32.56882 | 794 | 3 | 66.98544 | 32.57017 | 795 | 4 | 66.98437 | 32.57195 |
| 796 | 5 | 66.98366 | 32.57323 | 797 | 6 | 66.98209 | 32.57122 | 798 | 7 | 66.98285 | 32.57105 |
| 799 | 8 | 66.98331 | 32.57066 | 800 | 9 | 66.98368 | 32.56998 | 801 | 10 | 66.98380 | 32.56961 |
| 802 | 11 | 66.98378 | 32.56917 | 803 | 12 | 66.98365 | 32.56893 | 804 | 13 | 66.98326 | 32.56863 |
| 805 | 14 | 66.98304 | 32.56854 | 806 | 15 | 66.98301 | 32.56837 | 807 | 16 | 66.98292 | 32.56798 |
| 808 | 17 | 66.98282 | 32.56771 | 809 | 18 | 66.98287 | 32.56727 | 810 | 19 | 66.98292 | 32.56629 |
| 811 | 20 | 66.98304 | 32.56598 | 812 | 21 | 66.98297 | 32.56532 | 813 | 22 | 66.98329 | 32.56468 |
| 814 | 23 | 66.98338 | 32.56441 | 815 | 24 | 66.98354 | 32.56415 | 816 | 25 | 66.98390 | 32.56403 |
| 817 | 26 | 66.98431 | 32.56410 | 818 | 27 | 66.98453 | 32.56439 | 819 | 28 | 66.98461 | 32.56483 |
| 820 | 29 | 66.98462 | 32.56519 | 821 | 30 | 66.98461 | 32.56568 | 822 | 31 | 66.98464 | 32.56583 |
| 823 | 32 | 66.98473 | 32.56612 | 824 | 33 | 66.98490 | 32.56646 | 825 | 34 | 66.98512 | 32.56675 |
| 826 | 35 | 66.98528 | 32.56679 | 827 | 36 | 66.98554 | 32.56673 | 828 | 37 | 66.98691 | 32.56768 |
| 829 | 1 | 66.98366 | 32.57323 | 830 | 2 | 66.98347 | 32.57360 | 831 | 3 | 66.98312 | 32.57436 |
| 832 | 4 | 66.98263 | 32.57541 | 833 | 5 | 66.98227 | 32.57626 | 834 | 6 | 66.98213 | 32.57697 |
| 835 | 7 | 66.98179 | 32.57835 | 836 | 8 | 66.98039 | 32.57860 | 837 | 9 | 66.98045 | 32.57775 |
| 838 | 10 | 66.98033 | 32.57717 | 839 | 11 | 66.98001 | 32.57680 | 840 | 12 | 66.97950 | 32.57700 |
| 841 | 13 | 66.97883 | 32.57755 | 842 | 14 | 66.97745 | 32.57487 | 843 | 15 | 66.97775 | 32.57458 |
| 844 | 16 | 66.97816 | 32.57414 | 845 | 17 | 66.97853 | 32.57380 | 846 | 18 | 66.97873 | 32.57329 |
| 847 | 19 | 66.97890 | 32.57265 | 848 | 20 | 66.97911 | 32.57155 | 849 | 21 | 66.97931 | 32.57087 |
| 850 | 22 | 66.97940 | 32.57040 | 851 | 23 | 66.97963 | 32.56992 | 852 | 24 | 66.97987 | 32.56972 |
| 853 | 25 | 66.98009 | 32.56997 | 854 | 26 | 66.98042 | 32.57026 | 855 | 27 | 66.98088 | 32.57064 |
| 856 | 28 | 66.98154 | 32.57103 | 857 | 29 | 66.98209 | 32.57122 | 858 | 30 | 66.98366 | 32.57323 |
| 859 | 1 | 66.97883 | 32.57755 | 860 | 2 | 66.97796 | 32.57828 | 861 | 3 | 66.97688 | 32.57908 |
| 862 | 4 | 66.97527 | 32.58043 | 863 | 5 | 66.97436 | 32.58124 | 864 | 6 | 66.97356 | 32.58202 |
| 865 | 7 | 66.97307 | 32.58281 | 866 | 8 | 66.97254 | 32.58304 | 867 | 9 | 66.97213 | 32.58269 |
| 868 | 10 | 66.97169 | 32.58235 | 869 | 11 | 66.97158 | 32.58181 | 870 | 12 | 66.97173 | 32.58102 |
| 871 | 13 | 66.97163 | 32.58053 | 872 | 14 | 66.97091 | 32.58002 | 873 | 15 | 66.97111 | 32.57724 |
| 874 | 16 | 66.97250 | 32.57732 | 875 | 17 | 66.97306 | 32.57683 | 876 | 18 | 66.97345 | 32.57606 |
| 877 | 19 | 66.97367 | 32.57553 | 878 | 20 | 66.97384 | 32.57502 | 879 | 21 | 66.97379 | 32.57439 |
| 880 | 22 | 66.97377 | 32.57368 | 881 | 23 | 66.97357 | 32.57307 | 882 | 24 | 66.97352 | 32.57231 |
| 883 | 25 | 66.97350 | 32.57180 | 884 | 26 | 66.97350 | 32.57141 | 885 | 27 | 66.97406 | 32.57121 |
| 886 | 28 | 66.97443 | 32.57153 | 887 | 29 | 66.97462 | 32.57195 | 888 | 30 | 66.97482 | 32.57243 |
| 889 | 31 | 66.97511 | 32.57312 | 890 | 32 | 66.97522 | 32.57345 | 891 | 33 | 66.97548 | 32.57409 |
| 892 | 34 | 66.97574 | 32.57448 | 893 | 35 | 66.97605 | 32.57483 | 894 | 36 | 66.97630 | 32.57505 |
| 895 | 37 | 66.97667 | 32.57519 | 896 | 38 | 66.97718 | 32.57512 | 897 | 39 | 66.97745 | 32.57487 |
| 898 | 40 | 66.97883 | 32.57755 | 899 | 1 | 66.97108 | 32.57756 | 900 | 2 | 66.97091 | 32.58002 |
| 901 | 3 | 66.96991 | 32.57923 | 902 | 4 | 66.96897 | 32.57895 | 903 | 5 | 66.96812 | 32.57867 |
| 904 | 6 | 66.96751 | 32.57900 | 905 | 7 | 66.96718 | 32.57923 | 906 | 8 | 66.96662 | 32.57876 |
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| 1249 | 42 | 67.00788 | 32.54468 | 1250 | 43 | 67.00812 | 32.54461 | 1251 | 44 | 67.00836 | 32.54430 |
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| 1402 | 27 | 67.00373 | 32.60176 | 1403 | 28 | 67.00378 | 32.60040 | 1404 | 29 | 67.00380 | 32.59915 |
| 1405 | 30 | 67.00442 | 32.59830 | 1406 | 31 | 67.00460 | 32.59672 | 1407 | 32 | 67.00486 | 32.59643 |
| 1408 | 33 | 67.00533 | 32.59623 | 1409 | 34 | 67.00568 | 32.59610 | 1410 | 35 | 67.00675 | 32.59560 |
| 1411 | 36 | 67.00764 | 32.59508 | 1412 | 37 | 67.00852 | 32.59487 | 1413 | 38 | 67.00997 | 32.59428 |
| 1414 | 39 | 67.01071 | 32.59362 | 1415 | 40 | 67.01186 | 32.59264 | 1416 | 41 | 67.01285 | 32.59156 |
| 1417 | 42 | 67.01351 | 32.58967 | 1418 | 43 | 67.01480 | 32.58790 | 1419 | 44 | 67.01532 | 32.58670 |
| 1420 | 45 | 67.01590 | 32.58630 | 1421 | 46 | 67.01659 | 32.58581 | 1422 | 47 | 67.01713 | 32.58448 |
| 1423 | 48 | 67.01751 | 32.58372 | 1424 | 49 | 67.01823 | 32.58223 | 1425 | 50 | 67.01845 | 32.58110 |
| 1426 | 51 | 67.01910 | 32.58006 | 1427 | 52 | 67.01952 | 32.57937 | 1428 | 53 | 67.01949 | 32.57854 |
| 1429 | 54 | 67.01952 | 32.57792 | 1430 | 1 | 67.03582 | 32.55400 | 1431 | 2 | 67.03602 | 32.55387 |
| 1432 | 3 | 67.03637 | 32.55432 | 1433 | 4 | 67.03585 | 32.55579 | 1434 | 5 | 67.03557 | 32.55687 |
| 1435 | 6 | 67.03498 | 32.55795 | 1436 | 7 | 67.03468 | 32.55949 | 1437 | 8 | 67.03422 | 32.56118 |
| 1438 | 9 | 67.03338 | 32.56309 | 1439 | 10 | 67.03280 | 32.56465 | 1440 | 11 | 67.03169 | 32.56598 |
| 1441 | 12 | 67.03071 | 32.56662 | 1442 | 13 | 67.03003 | 32.56724 | 1443 | 14 | 67.02935 | 32.56773 |
| 1444 | 15 | 67.02852 | 32.56887 | 1445 | 16 | 67.02763 | 32.57007 | 1446 | 17 | 67.02674 | 32.57118 |
| 1447 | 18 | 67.02606 | 32.57219 | 1448 | 19 | 67.02486 | 32.57361 | 1449 | 20 | 67.02409 | 32.57542 |
| 1450 | 21 | 67.02286 | 32.57739 | 1451 | 22 | 67.02216 | 32.57860 | 1452 | 23 | 67.01956 | 32.57736 |
| 1453 | 24 | 67.01961 | 32.57684 | 1454 | 25 | 67.01961 | 32.57684 | 1455 | 26 | 67.01958 | 32.57716 |
| 1456 | 27 | 67.01977 | 32.57746 | 1457 | 28 | 67.02000 | 32.57757 | 1458 | 29 | 67.02030 | 32.57638 |
| 1459 | 30 | 67.02072 | 32.57506 | 1460 | 31 | 67.02082 | 32.57402 | 1461 | 32 | 67.02115 | 32.57296 |
| 1462 | 33 | 67.02144 | 32.57222 | 1463 | 34 | 67.02174 | 32.57184 | 1464 | 35 | 67.02225 | 32.57120 |
| 1465 | 36 | 67.02275 | 32.57079 | 1466 | 37 | 67.02279 | 32.57077 | 1467 | 38 | 67.02289 | 32.57025 |
| 1468 | 39 | 67.02242 | 32.56973 | 1469 | 40 | 67.02242 | 32.56973 | 1470 | 41 | 67.02276 | 32.56963 |
| 1471 | 42 | 67.02325 | 32.56933 | 1472 | 43 | 67.02447 | 32.56903 | 1473 | 44 | 67.02510 | 32.56805 |
| 1474 | 45 | 67.02551 | 32.56690 | 1475 | 46 | 67.02562 | 32.56629 | 1476 | 47 | 67.02613 | 32.56561 |
| 1477 | 48 | 67.02642 | 32.56479 | 1478 | 49 | 67.02706 | 32.56350 | 1479 | 50 | 67.02771 | 32.56228 |
| 1480 | 51 | 67.02842 | 32.56139 | 1481 | 52 | 67.02889 | 32.56053 | 1482 | 53 | 67.02967 | 32.56028 |
| 1483 | 54 | 67.03018 | 32.56006 | 1484 | 55 | 67.03113 | 32.55951 | 1485 | 56 | 67.03155 | 32.55925 |
| 1486 | 57 | 67.03212 | 32.55871 | 1487 | 58 | 67.03240 | 32.55844 | 1488 | 59 | 67.03279 | 32.55805 |
| 1489 | 60 | 67.03331 | 32.55747 | 1490 | 61 | 67.03397 | 32.55696 | 1491 | 62 | 67.03441 | 32.55664 |
| 1492 | 63 | 67.03476 | 32.55624 | 1493 | 64 | 67.03500 | 32.55574 | 1494 | 65 | 67.03538 | 32.55511 |
| 1495 | 66 | 67.03546 | 32.55476 | 1496 | 67 | 67.03582 | 32.55400 | 1497 | 1 | 67.02100 | 32.56965 |
| 1498 | 2 | 67.02178 | 32.56967 | 1499 | 3 | 67.02207 | 32.56973 | 1500 | 4 | 67.02207 | 32.56973 |
| 1501 | 5 | 67.02150 | 32.56967 | 1502 | 6 | 67.02094 | 32.56974 | 1503 | 7 | 67.02100 | 32.56965 |
| 1504 | 1 | 67.02039 | 32.57048 | 1505 | 2 | 67.02063 | 32.57016 | 1506 | 3 | 67.02039 | 32.57050 |
| 1507 | 4 | 67.02039 | 32.57050 | 1508 | 5 | 67.02039 | 32.57048 | 1509 | 1 | 67.02003 | 32.57133 |
| 1510 | 2 | 67.02012 | 32.57115 | 1511 | 3 | 67.01999 | 32.57157 | 1512 | 4 | 67.02003 | 32.57133 |
| 1513 | 1 | 67.01995 | 32.57182 | 1514 | 2 | 67.01999 | 32.57157 | 1515 | 3 | 67.01992 | 32.57214 |
| 1516 | 4 | 67.01988 | 32.57260 | 1517 | 5 | 67.01995 | 32.57182 | 1518 | 1 | 67.01982 | 32.57324 |
| 1519 | 2 | 67.01973 | 32.57370 | 1520 | 3 | 67.01973 | 32.57372 | 1521 | 4 | 67.01964 | 32.57443 |
| 1522 | 5 | 67.01964 | 32.57506 | 1523 | 6 | 67.01964 | 32.57492 | 1524 | 7 | 67.01964 | 32.57443 |
| 1525 | 8 | 67.01964 | 32.57422 | 1526 | 9 | 67.01973 | 32.57370 | 1527 | 10 | 67.01982 | 32.57324 |
| 1528 | 1 | 67.01964 | 32.57610 | 1529 | 2 | 67.01966 | 32.57565 | 1530 | 3 | 67.01964 | 32.57626 |
| 1531 | 4 | 67.01964 | 32.57610 | 1532 | 1 | 67.02816 | 32.51178 | 1533 | 2 | 67.02788 | 32.51183 |
| 1534 | 3 | 67.02781 | 32.51185 | 1535 | 4 | 67.02716 | 32.51208 | 1536 | 5 | 67.02632 | 32.51262 |
| 1537 | 6 | 67.02567 | 32.51319 | 1538 | 7 | 67.02495 | 32.51401 | 1539 | 8 | 67.02445 | 32.51468 |
| 1540 | 9 | 67.02407 | 32.51544 | 1541 | 10 | 67.02368 | 32.51603 | 1542 | 11 | 67.02308 | 32.51661 |
| 1543 | 12 | 67.02265 | 32.51719 | 1544 | 13 | 67.02231 | 32.51746 | 1545 | 14 | 67.02196 | 32.51758 |
| 1546 | 15 | 67.02154 | 32.51740 | 1547 | 16 | 67.02129 | 32.51704 | 1548 | 17 | 67.02103 | 32.51615 |
| 1549 | 18 | 67.02100 | 32.51525 | 1550 | 19 | 67.02074 | 32.51428 | 1551 | 20 | 67.02065 | 32.51379 |
| 1552 | 21 | 67.02059 | 32.51293 | 1553 | 22 | 67.02055 | 32.51244 | 1554 | 23 | 67.02052 | 32.51144 |
| 1555 | 24 | 67.02064 | 32.51082 | 1556 | 25 | 67.02069 | 32.51045 | 1557 | 26 | 67.02118 | 32.50955 |
| 1558 | 27 | 67.02139 | 32.50900 | 1559 | 28 | 67.02152 | 32.50824 | 1560 | 29 | 67.02181 | 32.50766 |
| 1561 | 30 | 67.02231 | 32.50669 | 1562 | 31 | 67.02250 | 32.50521 | 1563 | 32 | 67.02234 | 32.50428 |
| 1564 | 33 | 67.02213 | 32.50355 | 1565 | 34 | 67.02220 | 32.50270 | 1566 | 35 | 67.02235 | 32.50163 |
| 1567 | 36 | 67.02281 | 32.50085 | 1568 | 37 | 67.02326 | 32.49989 | 1569 | 38 | 67.02335 | 32.49921 |
| 1570 | 39 | 67.02329 | 32.49864 | 1571 | 40 | 67.02296 | 32.49743 | 1572 | 41 | 67.02283 | 32.49722 |
| 1573 | 42 | 67.02258 | 32.49696 | 1574 | 43 | 67.02238 | 32.49665 | 1575 | 44 | 67.02242 | 32.49624 |
| 1576 | 45 | 67.02252 | 32.49564 | 1577 | 46 | 67.02265 | 32.49484 | 1578 | 47 | 67.02266 | 32.49401 |
| 1579 | 48 | 67.02254 | 32.49282 | 1580 | 49 | 67.02244 | 32.49194 | 1581 | 50 | 67.02243 | 32.49091 |
| 1582 | 51 | 67.02247 | 32.48993 | 1583 | 52 | 67.02297 | 32.48933 | 1584 | 53 | 67.02340 | 32.48888 |
| 1585 | 54 | 67.02391 | 32.48818 | 1586 | 55 | 67.02435 | 32.48840 | 1587 | 56 | 67.02406 | 32.48906 |
| 1588 | 57 | 67.02389 | 32.49006 | 1589 | 58 | 67.02348 | 32.49089 | 1590 | 59 | 67.02348 | 32.49230 |
| 1591 | 60 | 67.02402 | 32.49316 | 1592 | 61 | 67.02481 | 32.49189 | 1593 | 62 | 67.02551 | 32.48931 |
| 1594 | 63 | 67.02611 | 32.48759 | 1595 | 64 | 67.02623 | 32.48631 | 1596 | 65 | 67.02651 | 32.48495 |
| 1597 | 66 | 67.02664 | 32.48370 | 1598 | 67 | 67.02659 | 32.48275 | 1599 | 68 | 67.02669 | 32.48005 |
| 1600 | 69 | 67.02664 | 32.47898 | 1601 | 70 | 67.02695 | 32.47869 | 1602 | 71 | 67.02742 | 32.47872 |
| 1603 | 72 | 67.02758 | 32.48019 | 1604 | 73 | 67.02758 | 32.48275 | 1605 | 74 | 67.02695 | 32.48559 |
| 1606 | 75 | 67.02674 | 32.48703 | 1607 | 76 | 67.02612 | 32.48919 | 1608 | 77 | 67.02575 | 32.49065 |
| 1609 | 78 | 67.02510 | 32.49303 | 1610 | 79 | 67.02479 | 32.49407 | 1611 | 80 | 67.02453 | 32.49446 |
| 1612 | 81 | 67.02432 | 32.49561 | 1613 | 82 | 67.02432 | 32.49676 | 1614 | 83 | 67.02432 | 32.49780 |
| 1615 | 84 | 67.02437 | 32.49882 | 1616 | 85 | 67.02442 | 32.49970 | 1617 | 86 | 67.02450 | 32.50070 |
| 1618 | 87 | 67.02434 | 32.50156 | 1619 | 88 | 67.02406 | 32.50242 | 1620 | 89 | 67.02377 | 32.50344 |
| 1621 | 90 | 67.02367 | 32.50461 | 1622 | 91 | 67.02364 | 32.50597 | 1623 | 92 | 67.02361 | 32.50727 |
| 1624 | 93 | 67.02364 | 32.50855 | 1625 | 94 | 67.02333 | 32.50964 | 1626 | 95 | 67.02307 | 32.51071 |
| 1627 | 96 | 67.02286 | 32.51176 | 1628 | 97 | 67.02286 | 32.51275 | 1629 | 98 | 67.02327 | 32.51309 |
| 1630 | 99 | 67.02406 | 32.51236 | 1631 | 100 | 67.02460 | 32.51163 | 1632 | 101 | 67.02523 | 32.51071 |
| 1633 | 102 | 67.02586 | 32.50998 | 1634 | 103 | 67.02646 | 32.51004 | 1635 | 104 | 67.02708 | 32.51004 |
| 1636 | 105 | 67.02774 | 32.51082 | 1637 | 106 | 67.02816 | 32.51178 |  |  |  |  |

## Сообщества мидиевых банок и друз

Плотные скопления мидий, крепящихся как гравийно-галечному грунту, так и к друг другу, представлены на литорали и в верхней сублиторали вершины Кандалакшского залива в виде локальных пятен различной площади. Эти сообщества приурочены к местам с быстрым течением и пологим дном (мысы, корги, мелководные проливы). Поселения формируются двумя видами: *Mytilus edulis* Linnaeus и *M. trossulus* Gould.

Мидии, будучи сильными эдификаторами, создают своеобразную среду, которая населяется далеко не всеми обитателями литорали и верхней сублиторали. Среди скоплений мидий присутствуют либо виды, способные активно перемещаться (брюхоногие моллюски, немертины), либо малоподвижные виды, развитие которых не связано с планктонной стадией, уязвимой для фильтрационной активности мидий (в первую очередь олигохеты *Tubificoides benedeni*). Эти сообщества в следующих местах Рисунок 4:

* Юго-восточный мыс о.Ряшкова;
* Литораль материка, луд и корг в сверо-западной части Западной Ряжковой салмы;
* Практически повсеместно на отмелях в районе островов Ломтишных.



**Рисунок 4.** Карта распределения сообществ, связнных плотными поселениями мидий. Map of the distribution of communities associated with dense mussel settlements.

Таблица +.3. Координаты опорных точек полигонов, описывающих сообщество, связанное с плотными поселеинями мидий. Coordinates of reference points of polygons describing the community associated with mussel's settlements

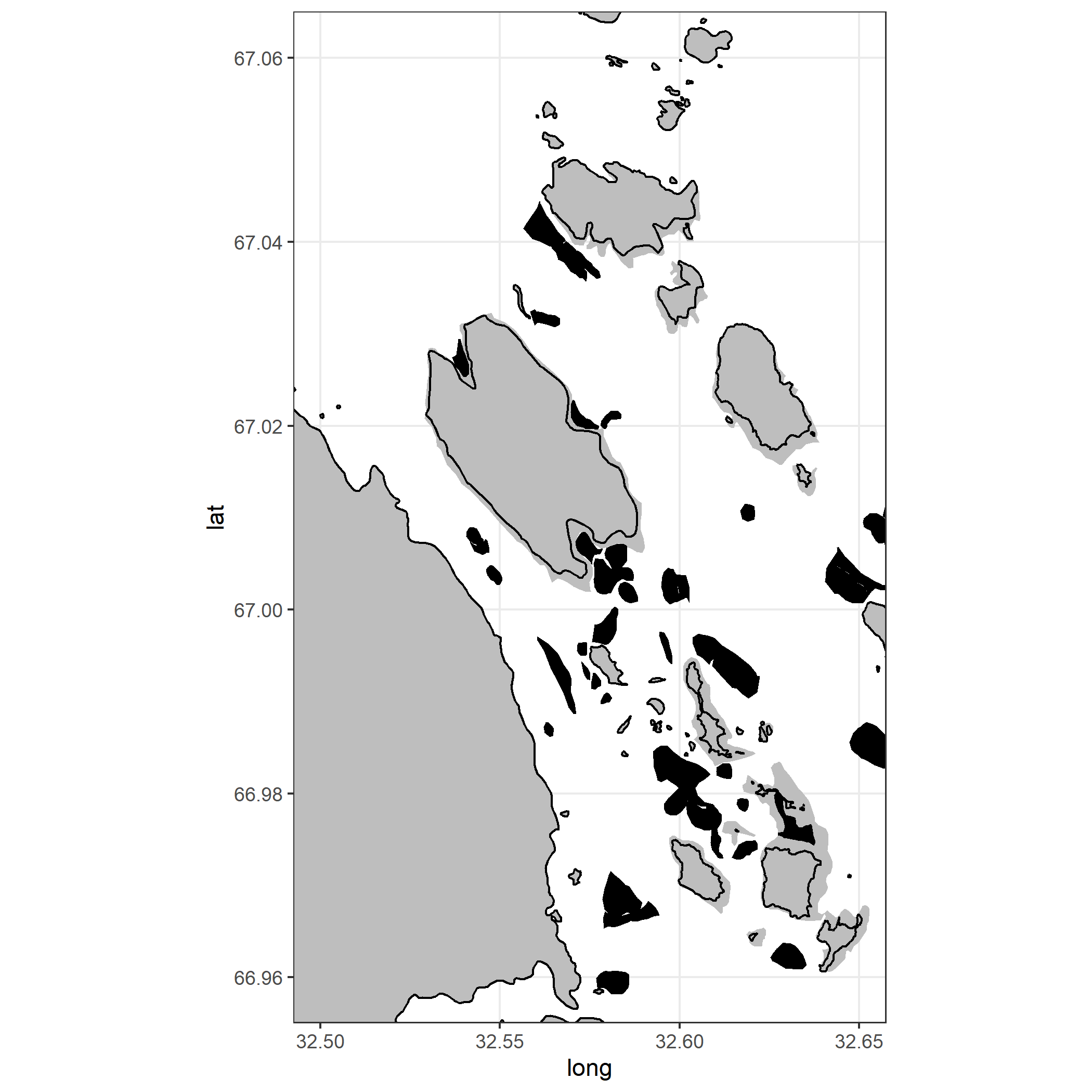
| № точки | N | E | № точки | N | E | № точки | N | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 67.01822 | 32.50437 | 2 | 67.01564 | 32.50895 | 3 | 66.97197 | 32.56652 |
| 4 | 66.97255 | 32.56736 | 5 | 66.97540 | 32.56843 | 6 | 67.01492 | 32.50893 |
| 7 | 67.00568 | 32.59032 | 8 | 66.99107 | 32.58730 | 9 | 66.98806 | 32.62218 |
| 10 | 66.98639 | 32.62217 | 11 | 66.98325 | 32.61648 | 12 | 66.98360 | 32.62274 |
| 13 | 66.98671 | 32.62631 | 14 | 66.98455 | 32.62583 | 15 | 66.98224 | 32.62498 |
| 16 | 66.98310 | 32.63031 | 17 | 66.97962 | 32.63664 | 18 | 66.97719 | 32.63679 |
| 19 | 66.97602 | 32.64075 | 20 | 66.97559 | 32.62899 | 21 | 67.00685 | 32.58595 |
| 22 | 67.00797 | 32.52947 |  |  |  |  |  |  |

## 

## Сообщество мелководных илов

Эти сообщества формируются в сублиторали на глубинах до 20 м в участках со слабым течением. Как правило, участки, на которых представлено данное сообщество, приурочены к межостровьям в шхерах, в сублиторали мелководных губ и на участках, находящихся в «гидродинамической тени» (в ямах, между порогами, экранирующими течения). В этих сообществах численности доминируют роющиеся формы: полихеты (*Terebellides stroemi*, *Scoloplos armiger*, *Aricidea nolani*, *Micronephthys* sp.), бокоплавы (*Pontoporeia femorata*, *Atylus carinatus*) и кумовые раки (*Diastylis glabra*, *D. sulcata*, *D. scorpiodes*). В некоторых районах в таких сообществах значительную плотность поселения демонстрируют полихеты-трубкостроители (сем.Maldanidae, Spionidae). По биомассе в таких сообществах доминируют двустворчатые моллюски из семейства Astartidae (*Tridonta borealis*, *T. elliptica*), *Serripes groenlandicus*, *Ciliatocardium ciliatum*, *Macoma calcarea* или *Macoma balthica*. В районах, находящихся в контакте с зарослями ламинарии в этом сообществе возрастает роль полихет *Pista maculata*, которые строят длинные переплетающиеся трубки.

Этот комплекс отмечен в Южной и Северной губе о. Ряшкова, в пространстве между островами Луда Девичья, Куричек, Большой и Малый Ломтишные (Рисунок 5).



**Рисунок 5.** Карта распределения собществ, связнных с мелководными сублиторальными илами. Map of distribution of assemblages associated with shallow sublittoral muds

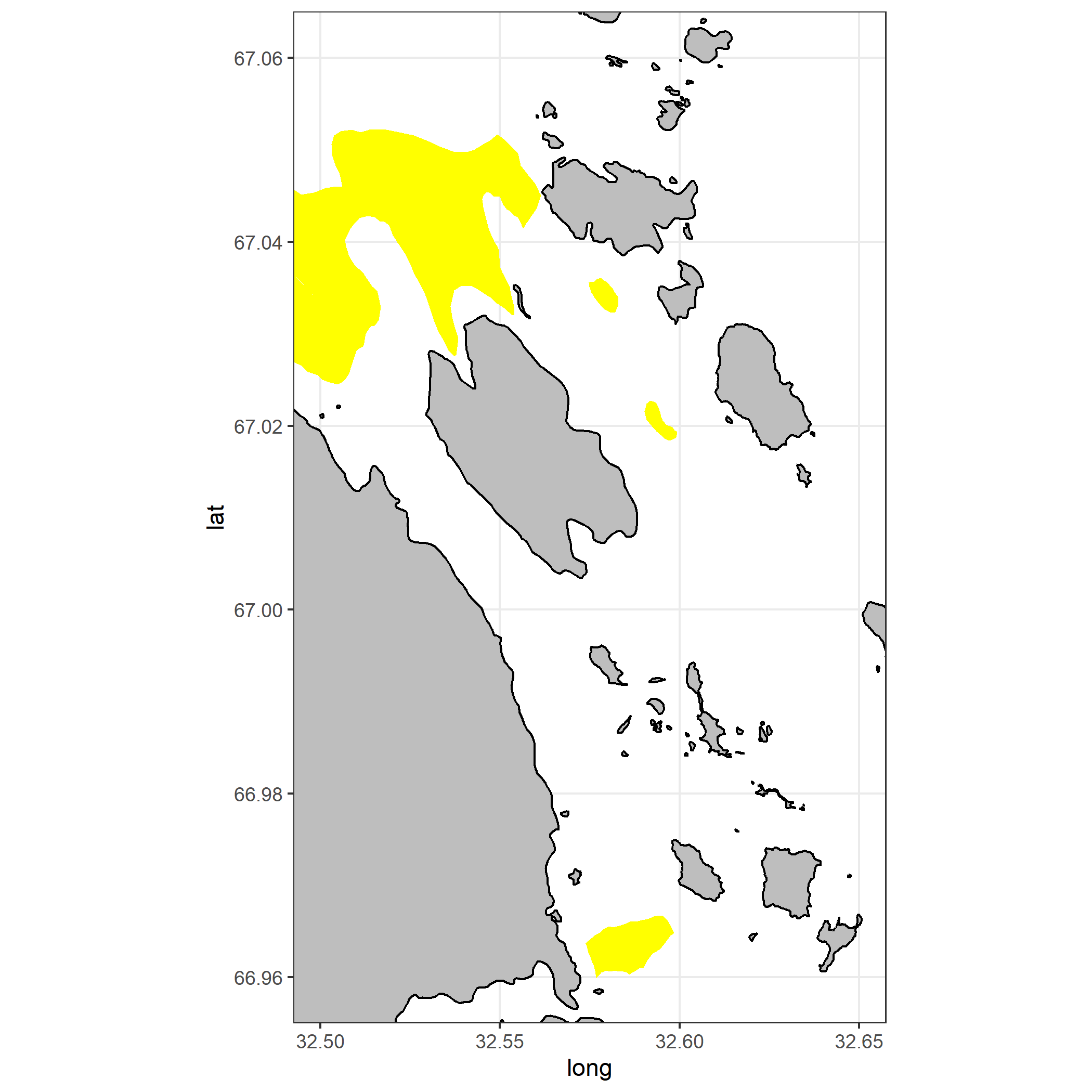
Таблица +.4. Координаты опорных точек полигонов, описывающих сообщества, связанные с мелководными сублиторальными илами. Coordinates of polygon reference points describing communities associated with shallow sublittoral muds

| № точки | Порядок | N | E | № точки | Порядок | N | E | № точки | Порядок | N | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 66.95841 | 32.57718 | 2 | 2 | 66.95988 | 32.57668 | 3 | 3 | 66.96015 | 32.57735 |
| 4 | 4 | 66.96041 | 32.57798 | 5 | 5 | 66.96060 | 32.57874 | 6 | 6 | 66.96073 | 32.57942 |
| 7 | 7 | 66.96067 | 32.57990 | 8 | 8 | 66.96060 | 32.58046 | 9 | 9 | 66.96065 | 32.58115 |
| 10 | 10 | 66.96067 | 32.58208 | 11 | 11 | 66.96065 | 32.58305 | 12 | 12 | 66.96060 | 32.58409 |
| 13 | 13 | 66.96052 | 32.58503 | 14 | 14 | 66.96030 | 32.58593 | 15 | 15 | 66.95971 | 32.58600 |
| 16 | 16 | 66.95929 | 32.58596 | 17 | 17 | 66.95884 | 32.58568 | 18 | 18 | 66.95855 | 32.58513 |
| 19 | 19 | 66.95833 | 32.58469 | 20 | 20 | 66.95818 | 32.58411 | 21 | 21 | 66.95810 | 32.58369 |
| 22 | 22 | 66.95812 | 32.58332 | 23 | 23 | 66.95812 | 32.58297 | 24 | 24 | 66.95809 | 32.58210 |
| 25 | 25 | 66.95810 | 32.58179 | 26 | 26 | 66.95809 | 32.58132 | 27 | 27 | 66.95818 | 32.58090 |
| 28 | 28 | 66.95833 | 32.58049 | 29 | 29 | 66.95855 | 32.58000 | 30 | 30 | 66.95875 | 32.57937 |
| 31 | 31 | 66.95884 | 32.57868 | 32 | 32 | 66.95877 | 32.57798 | 33 | 33 | 66.95868 | 32.57763 |
| 34 | 34 | 66.95841 | 32.57718 | 35 | 1 | 66.96375 | 32.62886 | 36 | 2 | 66.96369 | 32.62968 |
| 37 | 3 | 66.96367 | 32.63103 | 38 | 4 | 66.96349 | 32.63187 | 39 | 5 | 66.96318 | 32.63276 |
| 40 | 6 | 66.96277 | 32.63367 | 41 | 7 | 66.96242 | 32.63444 | 42 | 8 | 66.96214 | 32.63467 |
| 43 | 9 | 66.96131 | 32.63535 | 44 | 10 | 66.96089 | 32.63443 | 45 | 11 | 66.96084 | 32.63321 |
| 46 | 12 | 66.96087 | 32.63156 | 47 | 13 | 66.96094 | 32.62948 | 48 | 14 | 66.96126 | 32.62805 |
| 49 | 15 | 66.96158 | 32.62685 | 50 | 16 | 66.96174 | 32.62581 | 51 | 17 | 66.96214 | 32.62521 |
| 52 | 18 | 66.96261 | 32.62601 | 53 | 19 | 66.96311 | 32.62707 | 54 | 20 | 66.96375 | 32.62886 |
| 55 | 1 | 66.97844 | 32.60598 | 56 | 2 | 66.97835 | 32.60640 | 57 | 3 | 66.97834 | 32.60733 |
| 58 | 4 | 66.97896 | 32.60761 | 59 | 5 | 66.97888 | 32.60818 | 60 | 6 | 66.97877 | 32.60885 |
| 61 | 7 | 66.97856 | 32.60973 | 62 | 8 | 66.97828 | 32.61060 | 63 | 9 | 66.97796 | 32.61111 |
| 64 | 10 | 66.97778 | 32.61167 | 65 | 11 | 66.97709 | 32.61175 | 66 | 12 | 66.97661 | 32.61143 |
| 67 | 13 | 66.97610 | 32.61052 | 68 | 14 | 66.97557 | 32.61084 | 69 | 15 | 66.97538 | 32.61116 |
| 70 | 16 | 66.97509 | 32.61169 | 71 | 17 | 66.97483 | 32.61164 | 72 | 18 | 66.97451 | 32.61116 |
| 73 | 19 | 66.97395 | 32.61090 | 74 | 20 | 66.97363 | 32.61106 | 75 | 21 | 66.97334 | 32.61199 |
| 76 | 22 | 66.97291 | 32.61223 | 77 | 23 | 66.97291 | 32.61140 | 78 | 24 | 66.97302 | 32.61063 |
| 79 | 25 | 66.97387 | 32.60898 | 80 | 26 | 66.97432 | 32.60872 | 81 | 27 | 66.97467 | 32.60858 |
| 82 | 28 | 66.97600 | 32.60888 | 83 | 29 | 66.97600 | 32.60854 | 84 | 30 | 66.97597 | 32.60704 |
| 85 | 31 | 66.97621 | 32.60566 | 86 | 32 | 66.97632 | 32.60440 | 87 | 33 | 66.97682 | 32.60329 |
| 88 | 34 | 66.97778 | 32.60207 | 89 | 35 | 66.97900 | 32.60170 | 90 | 36 | 66.97930 | 32.60267 |
| 91 | 37 | 66.97892 | 32.60438 | 92 | 38 | 66.97875 | 32.60493 | 93 | 39 | 66.97844 | 32.60598 |
| 94 | 1 | 66.98725 | 32.65052 | 95 | 2 | 66.98755 | 32.65122 | 96 | 3 | 66.98777 | 32.65208 |
| 97 | 4 | 66.98764 | 32.65339 | 98 | 5 | 66.98740 | 32.65473 | 99 | 6 | 66.98689 | 32.65609 |
| 100 | 7 | 66.98634 | 32.65739 | 101 | 8 | 66.98570 | 32.65931 | 102 | 9 | 66.98525 | 32.66084 |
| 103 | 10 | 66.98472 | 32.66237 | 104 | 11 | 66.98415 | 32.66337 | 105 | 12 | 66.98349 | 32.66390 |
| 106 | 13 | 66.98279 | 32.66390 | 107 | 14 | 66.98245 | 32.66314 | 108 | 15 | 66.98221 | 32.66203 |
| 109 | 16 | 66.98228 | 32.66060 | 110 | 17 | 66.98260 | 32.65846 | 111 | 18 | 66.98272 | 32.65652 |
| 112 | 19 | 66.98309 | 32.65424 | 113 | 20 | 66.98345 | 32.65275 | 114 | 21 | 66.98366 | 32.65180 |
| 115 | 22 | 66.98385 | 32.65054 | 116 | 23 | 66.98408 | 32.64990 | 117 | 24 | 66.98440 | 32.64882 |
| 118 | 25 | 66.98477 | 32.64782 | 119 | 26 | 66.98557 | 32.64727 | 120 | 27 | 66.98657 | 32.64827 |
| 121 | 28 | 66.98713 | 32.64963 | 122 | 29 | 66.98725 | 32.65052 | 123 | 1 | 67.00496 | 32.64153 |
| 124 | 2 | 67.00494 | 32.64173 | 125 | 3 | 67.00488 | 32.64231 | 126 | 4 | 67.00485 | 32.64356 |
| 127 | 5 | 67.00461 | 32.64437 | 128 | 6 | 67.00437 | 32.64546 | 129 | 7 | 67.00383 | 32.64753 |
| 130 | 8 | 67.00352 | 32.64809 | 131 | 9 | 67.00318 | 32.64898 | 132 | 10 | 67.00291 | 32.64965 |
| 133 | 11 | 67.00284 | 32.64998 | 134 | 12 | 67.00245 | 32.65166 | 135 | 13 | 67.00205 | 32.65207 |
| 136 | 14 | 67.00153 | 32.65268 | 137 | 15 | 67.00077 | 32.65117 | 138 | 16 | 67.00072 | 32.65052 |
| 139 | 17 | 67.00069 | 32.65015 | 140 | 18 | 67.00067 | 32.64826 | 141 | 19 | 67.00106 | 32.64623 |
| 142 | 20 | 67.00172 | 32.64429 | 143 | 21 | 67.00178 | 32.64307 | 144 | 22 | 67.00309 | 32.64051 |
| 145 | 23 | 67.00378 | 32.64071 | 146 | 24 | 67.00414 | 32.64081 | 147 | 25 | 67.00456 | 32.64088 |
| 148 | 26 | 67.00496 | 32.64153 | 149 | 1 | 67.01013 | 32.65668 | 150 | 2 | 67.01004 | 32.65701 |
| 151 | 3 | 67.00977 | 32.65768 | 152 | 4 | 67.00935 | 32.65828 | 153 | 5 | 67.00891 | 32.65858 |
| 154 | 6 | 67.00828 | 32.65858 | 155 | 7 | 67.00778 | 32.65822 | 156 | 8 | 67.00748 | 32.65756 |
| 157 | 9 | 67.00732 | 32.65707 | 158 | 10 | 67.00720 | 32.65631 | 159 | 11 | 67.00720 | 32.65554 |
| 160 | 12 | 67.00748 | 32.65462 | 161 | 13 | 67.00823 | 32.65352 | 162 | 14 | 67.00862 | 32.65318 |
| 163 | 15 | 67.00880 | 32.65220 | 164 | 16 | 67.00903 | 32.65128 | 165 | 17 | 67.00955 | 32.65110 |
| 166 | 18 | 67.00997 | 32.65133 | 167 | 19 | 67.01019 | 32.65202 | 168 | 20 | 67.01047 | 32.65300 |
| 169 | 21 | 67.01057 | 32.65412 | 170 | 22 | 67.01049 | 32.65512 | 171 | 23 | 67.01030 | 32.65587 |
| 172 | 24 | 67.01013 | 32.65668 | 173 | 1 | 67.01510 | 32.66691 | 174 | 2 | 67.01537 | 32.66731 |
| 175 | 3 | 67.01537 | 32.66746 | 176 | 4 | 67.01532 | 32.66786 | 177 | 5 | 67.01527 | 32.66836 |
| 178 | 6 | 67.01522 | 32.66904 | 179 | 7 | 67.01507 | 32.66964 | 180 | 8 | 67.01487 | 32.66969 |
| 181 | 9 | 67.01474 | 32.67014 | 182 | 10 | 67.01447 | 32.67059 | 183 | 11 | 67.01412 | 32.67142 |
| 184 | 12 | 67.01377 | 32.67192 | 185 | 13 | 67.01289 | 32.67209 | 186 | 14 | 67.01252 | 32.67154 |
| 187 | 15 | 67.01232 | 32.67062 | 188 | 16 | 67.01209 | 32.66936 | 189 | 17 | 67.01279 | 32.66834 |
| 190 | 18 | 67.01333 | 32.66722 | 191 | 19 | 67.01402 | 32.66729 | 192 | 20 | 67.01444 | 32.66663 |
| 193 | 21 | 67.01477 | 32.66668 | 194 | 22 | 67.01510 | 32.66691 | 195 | 1 | 67.00895 | 32.54287 |
| 196 | 2 | 67.00886 | 32.54336 | 197 | 3 | 67.00884 | 32.54352 | 198 | 4 | 67.00864 | 32.54384 |
| 199 | 5 | 67.00836 | 32.54430 | 200 | 6 | 67.00812 | 32.54461 | 201 | 7 | 67.00788 | 32.54468 |
| 202 | 8 | 67.00768 | 32.54547 | 203 | 9 | 67.00745 | 32.54540 | 204 | 10 | 67.00733 | 32.54539 |
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| 208 | 14 | 67.00691 | 32.54481 | 209 | 15 | 67.00692 | 32.54449 | 210 | 16 | 67.00695 | 32.54413 |
| 211 | 17 | 67.00698 | 32.54376 | 212 | 18 | 67.00701 | 32.54352 | 213 | 19 | 67.00713 | 32.54311 |
| 214 | 20 | 67.00720 | 32.54260 | 215 | 21 | 67.00737 | 32.54208 | 216 | 22 | 67.00741 | 32.54173 |
| 217 | 23 | 67.00752 | 32.54136 | 218 | 24 | 67.00775 | 32.54090 | 219 | 25 | 67.00802 | 32.54052 |
| 220 | 26 | 67.00849 | 32.54070 | 221 | 27 | 67.00877 | 32.54105 | 222 | 28 | 67.00897 | 32.54159 |
| 223 | 29 | 67.00904 | 32.54196 | 224 | 30 | 67.00895 | 32.54287 | 225 | 1 | 67.00484 | 32.54720 |
| 226 | 2 | 67.00489 | 32.54768 | 227 | 3 | 67.00479 | 32.54820 | 228 | 4 | 67.00456 | 32.54880 |
| 229 | 5 | 67.00431 | 32.54943 | 230 | 6 | 67.00398 | 32.55008 | 231 | 7 | 67.00376 | 32.55043 |
| 232 | 8 | 67.00343 | 32.55063 | 233 | 9 | 67.00311 | 32.55048 | 234 | 10 | 67.00281 | 32.55011 |
| 235 | 11 | 67.00271 | 32.54966 | 236 | 12 | 67.00271 | 32.54905 | 237 | 13 | 67.00314 | 32.54824 |
| 238 | 14 | 67.00313 | 32.54792 | 239 | 15 | 67.00324 | 32.54754 | 240 | 16 | 67.00338 | 32.54714 |
| 241 | 17 | 67.00355 | 32.54685 | 242 | 18 | 67.00373 | 32.54653 | 243 | 19 | 67.00392 | 32.54626 |
| 244 | 20 | 67.00409 | 32.54614 | 245 | 21 | 67.00428 | 32.54611 | 246 | 22 | 67.00446 | 32.54618 |
| 247 | 23 | 67.00458 | 32.54640 | 248 | 24 | 67.00468 | 32.54675 | 249 | 25 | 67.00475 | 32.54685 |
| 250 | 26 | 67.00484 | 32.54720 | 251 | 1 | 67.02946 | 32.53831 | 252 | 2 | 67.02948 | 32.53900 |
| 253 | 3 | 67.02827 | 32.53987 | 254 | 4 | 67.02800 | 32.54015 | 255 | 5 | 67.02737 | 32.54073 |
| 256 | 6 | 67.02680 | 32.54123 | 257 | 7 | 67.02627 | 32.54145 | 258 | 8 | 67.02594 | 32.54143 |
| 259 | 9 | 67.02559 | 32.54128 | 260 | 10 | 67.02534 | 32.54065 | 261 | 11 | 67.02532 | 32.53987 |
| 262 | 12 | 67.02599 | 32.53865 | 263 | 13 | 67.02642 | 32.53765 | 264 | 14 | 67.02745 | 32.53667 |
| 265 | 15 | 67.02758 | 32.53720 | 266 | 16 | 67.02772 | 32.53777 | 267 | 17 | 67.02814 | 32.53790 |
| 268 | 18 | 67.02946 | 32.53831 | 269 | 1 | 67.02289 | 32.57025 | 270 | 2 | 67.02279 | 32.57077 |
| 271 | 3 | 67.02275 | 32.57079 | 272 | 4 | 67.02225 | 32.57120 | 273 | 5 | 67.02174 | 32.57184 |
| 274 | 6 | 67.02144 | 32.57222 | 275 | 7 | 67.02115 | 32.57296 | 276 | 8 | 67.02082 | 32.57402 |
| 277 | 9 | 67.02072 | 32.57506 | 278 | 10 | 67.02030 | 32.57638 | 279 | 11 | 67.02000 | 32.57757 |
| 280 | 12 | 67.01977 | 32.57746 | 281 | 13 | 67.01958 | 32.57716 | 282 | 14 | 67.01961 | 32.57684 |
| 283 | 15 | 67.01964 | 32.57626 | 284 | 16 | 67.01966 | 32.57565 | 285 | 17 | 67.01964 | 32.57506 |
| 286 | 18 | 67.01964 | 32.57443 | 287 | 19 | 67.01973 | 32.57372 | 288 | 20 | 67.01982 | 32.57324 |
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| 292 | 24 | 67.02012 | 32.57115 | 293 | 25 | 67.02039 | 32.57050 | 294 | 26 | 67.02063 | 32.57016 |
| 295 | 27 | 67.02089 | 32.56975 | 296 | 28 | 67.02150 | 32.56967 | 297 | 29 | 67.02207 | 32.56973 |
| 298 | 30 | 67.02242 | 32.56973 | 299 | 31 | 67.02289 | 32.57025 | 300 | 1 | 67.04448 | 32.56090 |
| 301 | 2 | 67.04441 | 32.56118 | 302 | 3 | 67.04414 | 32.56130 | 303 | 4 | 67.04413 | 32.56132 |
| 304 | 5 | 67.04378 | 32.56179 | 305 | 6 | 67.04331 | 32.56236 | 306 | 7 | 67.04288 | 32.56294 |
| 307 | 8 | 67.04213 | 32.56450 | 308 | 9 | 67.04151 | 32.56545 | 309 | 10 | 67.04121 | 32.56602 |
| 310 | 11 | 67.04081 | 32.56690 | 311 | 12 | 67.04050 | 32.56778 | 312 | 13 | 67.04014 | 32.56829 |
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| 316 | 17 | 67.03979 | 32.56252 | 317 | 18 | 67.04012 | 32.56061 | 318 | 19 | 67.04034 | 32.55897 |
| 319 | 20 | 67.04147 | 32.55643 | 320 | 21 | 67.04201 | 32.55738 | 321 | 22 | 67.04242 | 32.55803 |
| 322 | 23 | 67.04292 | 32.55896 | 323 | 24 | 67.04368 | 32.56027 | 324 | 25 | 67.04448 | 32.56090 |
| 325 | 1 | 66.96653 | 32.57877 | 326 | 2 | 66.96718 | 32.57923 | 327 | 3 | 66.96697 | 32.58013 |
| 328 | 4 | 66.96663 | 32.58135 | 329 | 5 | 66.96653 | 32.58272 | 330 | 6 | 66.96678 | 32.58470 |
| 331 | 7 | 66.96694 | 32.58618 | 332 | 8 | 66.96710 | 32.58760 | 333 | 9 | 66.96726 | 32.58865 |
| 334 | 10 | 66.96756 | 32.58969 | 335 | 11 | 66.96783 | 32.59047 | 336 | 12 | 66.96831 | 32.59117 |
| 337 | 13 | 66.96796 | 32.59234 | 338 | 14 | 66.96762 | 32.59329 | 339 | 15 | 66.96705 | 32.59407 |
| 340 | 16 | 66.96674 | 32.59448 | 341 | 17 | 66.96668 | 32.59354 | 342 | 18 | 66.96662 | 32.59281 |
| 343 | 19 | 66.96647 | 32.59203 | 344 | 20 | 66.96629 | 32.59106 | 345 | 21 | 66.96626 | 32.59023 |
| 346 | 22 | 66.96623 | 32.58951 | 347 | 23 | 66.96607 | 32.58816 | 348 | 24 | 66.96605 | 32.58762 |
| 349 | 25 | 66.96609 | 32.58668 | 350 | 26 | 66.96608 | 32.58630 | 351 | 27 | 66.96595 | 32.58554 |
| 352 | 28 | 66.96581 | 32.58475 | 353 | 29 | 66.96568 | 32.58392 | 354 | 30 | 66.96558 | 32.58324 |
| 355 | 31 | 66.96547 | 32.58228 | 356 | 32 | 66.96540 | 32.58163 | 357 | 33 | 66.96544 | 32.58096 |
| 358 | 34 | 66.96552 | 32.58026 | 359 | 35 | 66.96533 | 32.57925 | 360 | 36 | 66.96526 | 32.57884 |
| 361 | 37 | 66.96594 | 32.57882 | 362 | 38 | 66.96653 | 32.57877 | 363 | 1 | 66.99439 | 32.57273 |
| 364 | 2 | 66.99434 | 32.57285 | 365 | 3 | 66.99410 | 32.57347 | 366 | 4 | 66.99388 | 32.57396 |
| 367 | 5 | 66.99366 | 32.57435 | 368 | 6 | 66.99333 | 32.57480 | 369 | 7 | 66.99305 | 32.57518 |
| 370 | 8 | 66.99267 | 32.57515 | 371 | 9 | 66.99232 | 32.57512 | 372 | 10 | 66.99236 | 32.57481 |
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| 376 | 14 | 66.99313 | 32.57321 | 377 | 15 | 66.99329 | 32.57312 | 378 | 16 | 66.99386 | 32.57279 |
| 379 | 17 | 66.99411 | 32.57268 | 380 | 18 | 66.99443 | 32.57262 | 381 | 19 | 66.99439 | 32.57273 |
| 382 | 1 | 66.99536 | 32.61049 | 383 | 2 | 66.99507 | 32.61111 | 384 | 3 | 66.99408 | 32.61357 |
| 385 | 4 | 66.99382 | 32.61517 | 386 | 5 | 66.99314 | 32.61716 | 387 | 6 | 66.99291 | 32.61879 |
| 388 | 7 | 66.99277 | 32.62242 | 389 | 8 | 66.99102 | 32.62164 | 390 | 9 | 66.99036 | 32.61917 |
| 391 | 10 | 66.99080 | 32.61764 | 392 | 11 | 66.99143 | 32.61603 | 393 | 12 | 66.99151 | 32.61455 |
| 394 | 13 | 66.99221 | 32.61294 | 395 | 14 | 66.99296 | 32.61122 | 396 | 15 | 66.99390 | 32.60903 |
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| 406 | 8 | 67.00383 | 32.64753 | 407 | 9 | 67.00403 | 32.64686 | 408 | 10 | 67.00428 | 32.64588 |
| 409 | 11 | 67.00447 | 32.64503 | 410 | 12 | 67.00465 | 32.64421 | 411 | 13 | 67.00485 | 32.64356 |
| 412 | 14 | 67.00485 | 32.64254 | 413 | 15 | 67.00496 | 32.64153 | 414 | 16 | 67.00569 | 32.64278 |
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| 427 | 29 | 67.00305 | 32.65494 | 428 | 30 | 67.00290 | 32.65575 | 429 | 31 | 67.00276 | 32.65640 |
| 430 | 32 | 67.00270 | 32.65695 | 431 | 33 | 67.00268 | 32.65750 | 432 | 34 | 67.00258 | 32.65783 |
| 433 | 35 | 67.00243 | 32.65777 | 434 | 36 | 67.00211 | 32.65750 | 435 | 37 | 67.00211 | 32.65697 |
| 436 | 38 | 67.00211 | 32.65625 | 437 | 39 | 67.00222 | 32.65541 | 438 | 40 | 67.00233 | 32.65451 |
| 439 | 41 | 67.00199 | 32.65353 | 440 | 42 | 67.00175 | 32.65309 | 441 | 43 | 67.00153 | 32.65268 |
| 442 | 1 | 67.00380 | 32.59915 | 443 | 2 | 67.00379 | 32.59948 | 444 | 3 | 67.00379 | 32.60032 |
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| 487 | 30 | 67.01043 | 32.65676 | 488 | 31 | 67.01087 | 32.65702 | 489 | 32 | 67.01137 | 32.65732 |
| 490 | 33 | 67.01182 | 32.65757 | 491 | 34 | 67.01215 | 32.65808 | 492 | 35 | 67.01246 | 32.65854 |
| 493 | 36 | 67.01254 | 32.65867 | 494 | 37 | 67.01271 | 32.65910 | 495 | 1 | 67.03985 | 32.56777 |
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| 520 | 26 | 67.03929 | 32.56862 | 521 | 27 | 67.03985 | 32.56777 | 522 | 1 | 67.00677 | 32.57959 |
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| 586 | 8 | 66.99242 | 32.66467 | 587 | 9 | 66.99210 | 32.66449 | 588 | 10 | 66.99194 | 32.66477 |
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| 592 | 14 | 66.99194 | 32.66639 | 593 | 15 | 66.99210 | 32.66689 | 594 | 16 | 66.99218 | 32.66727 |
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| 613 | 35 | 66.99041 | 32.66519 | 614 | 36 | 66.99043 | 32.66485 | 615 | 37 | 66.99041 | 32.66453 |
| 616 | 38 | 66.99051 | 32.66427 | 617 | 39 | 66.99049 | 32.66378 | 618 | 40 | 66.99049 | 32.66340 |
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| 622 | 44 | 66.99007 | 32.66244 | 623 | 45 | 66.98991 | 32.66222 | 624 | 46 | 66.98977 | 32.66208 |
| 625 | 47 | 66.98957 | 32.66184 | 626 | 48 | 66.98939 | 32.66168 | 627 | 49 | 66.98917 | 32.66129 |
| 628 | 50 | 66.99311 | 32.65951 | 629 | 1 | 66.98023 | 32.62719 | 630 | 2 | 66.98001 | 32.62818 |
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| 634 | 6 | 66.97825 | 32.62904 | 635 | 7 | 66.97793 | 32.62931 | 636 | 8 | 66.97762 | 32.62972 |
| 637 | 9 | 66.97762 | 32.63030 | 638 | 10 | 66.97753 | 32.63111 | 639 | 11 | 66.97739 | 32.63215 |
| 640 | 12 | 66.97712 | 32.63233 | 641 | 13 | 66.97667 | 32.63256 | 642 | 14 | 66.97649 | 32.63287 |
| 643 | 15 | 66.97627 | 32.63328 | 644 | 16 | 66.97631 | 32.63382 | 645 | 17 | 66.97631 | 32.63423 |
| 646 | 18 | 66.97640 | 32.63459 | 647 | 19 | 66.97654 | 32.63508 | 648 | 20 | 66.97654 | 32.63558 |
| 649 | 21 | 66.97658 | 32.63594 | 650 | 22 | 66.97672 | 32.63657 | 651 | 23 | 66.97654 | 32.63689 |
| 652 | 24 | 66.97618 | 32.63707 | 653 | 25 | 66.97545 | 32.63725 | 654 | 26 | 66.97473 | 32.63783 |
| 655 | 27 | 66.97428 | 32.63743 | 656 | 28 | 66.97464 | 32.63612 | 657 | 29 | 66.97469 | 32.63526 |
| 658 | 30 | 66.97482 | 32.63432 | 659 | 31 | 66.97482 | 32.63337 | 660 | 32 | 66.97491 | 32.63238 |
| 661 | 33 | 66.97500 | 32.63152 | 662 | 34 | 66.97509 | 32.63003 | 663 | 35 | 66.97518 | 32.62904 |
| 664 | 36 | 66.97532 | 32.62841 | 665 | 37 | 66.97545 | 32.62744 | 666 | 38 | 66.97573 | 32.62744 |
| 667 | 39 | 66.97586 | 32.62886 | 668 | 40 | 66.97640 | 32.62927 | 669 | 41 | 66.97726 | 32.62873 |
| 670 | 42 | 66.97762 | 32.62823 | 671 | 43 | 66.97802 | 32.62751 | 672 | 44 | 66.97848 | 32.62701 |
| 673 | 45 | 66.97902 | 32.62652 | 674 | 46 | 66.97978 | 32.62625 | 675 | 47 | 66.98023 | 32.62719 |
| 676 | 1 | 67.00489 | 32.57555 | 677 | 2 | 67.00508 | 32.57529 | 678 | 3 | 67.00512 | 32.57522 |
| 679 | 4 | 67.00548 | 32.57453 | 680 | 5 | 67.00566 | 32.57406 | 681 | 6 | 67.00583 | 32.57346 |
| 682 | 7 | 67.00599 | 32.57288 | 683 | 8 | 67.00615 | 32.57225 | 684 | 9 | 67.00650 | 32.57158 |
| 685 | 10 | 67.00674 | 32.57120 | 686 | 11 | 67.00696 | 32.57106 | 687 | 12 | 67.00735 | 32.57100 |
| 688 | 13 | 67.00782 | 32.57159 | 689 | 14 | 67.00815 | 32.57205 | 690 | 15 | 67.00842 | 32.57255 |
| 691 | 16 | 67.00852 | 32.57334 | 692 | 17 | 67.00843 | 32.57383 | 693 | 18 | 67.00812 | 32.57460 |
| 694 | 19 | 67.00784 | 32.57495 | 695 | 20 | 67.00740 | 32.57558 | 696 | 21 | 67.00689 | 32.57667 |
| 697 | 22 | 67.00660 | 32.57735 | 698 | 23 | 67.00663 | 32.57800 | 699 | 24 | 67.00666 | 32.57866 |
| 700 | 25 | 67.00622 | 32.57814 | 701 | 26 | 67.00608 | 32.57784 | 702 | 27 | 67.00604 | 32.57702 |
| 703 | 28 | 67.00594 | 32.57630 | 704 | 29 | 67.00564 | 32.57586 | 705 | 30 | 67.00532 | 32.57574 |
| 706 | 31 | 67.00489 | 32.57555 | 707 | 1 | 66.97110 | 32.58206 | 708 | 2 | 66.97062 | 32.58357 |
| 709 | 3 | 66.97008 | 32.58492 | 710 | 4 | 66.96991 | 32.58595 | 711 | 5 | 66.96905 | 32.58741 |
| 712 | 6 | 66.96861 | 32.58839 | 713 | 7 | 66.96813 | 32.58958 | 714 | 8 | 66.96732 | 32.58898 |
| 715 | 9 | 66.96705 | 32.58795 | 716 | 10 | 66.96688 | 32.58671 | 717 | 11 | 66.96705 | 32.58525 |
| 718 | 12 | 66.96661 | 32.58341 | 719 | 13 | 66.96650 | 32.58162 | 720 | 14 | 66.96694 | 32.58005 |
| 721 | 15 | 66.96742 | 32.57903 | 722 | 16 | 66.96845 | 32.57849 | 723 | 17 | 66.96959 | 32.57903 |
| 724 | 18 | 66.97029 | 32.57962 | 725 | 19 | 66.97110 | 32.58016 | 726 | 20 | 66.97159 | 32.58087 |
| 727 | 21 | 66.97110 | 32.58206 | 728 | 1 | 66.98614 | 32.56382 | 729 | 2 | 66.98658 | 32.56242 |
| 730 | 3 | 66.98722 | 32.56204 | 731 | 4 | 66.98771 | 32.56269 | 732 | 5 | 66.98771 | 32.56361 |
| 733 | 6 | 66.98744 | 32.56431 | 734 | 7 | 66.98706 | 32.56507 | 735 | 8 | 66.98625 | 32.56469 |
| 736 | 9 | 66.98614 | 32.56382 | 737 | 1 | 66.99630 | 32.56361 | 738 | 2 | 66.99521 | 32.56615 |
| 739 | 3 | 66.99402 | 32.56777 | 740 | 4 | 66.99321 | 32.56923 | 741 | 5 | 66.99245 | 32.56988 |
| 742 | 6 | 66.99170 | 32.56983 | 743 | 7 | 66.99099 | 32.56983 | 744 | 8 | 66.98980 | 32.57075 |
| 745 | 9 | 66.98867 | 32.57124 | 746 | 10 | 66.98872 | 32.57042 | 747 | 11 | 66.98937 | 32.56913 |
| 748 | 12 | 66.99078 | 32.56772 | 749 | 13 | 66.99235 | 32.56588 | 750 | 14 | 66.99359 | 32.56410 |
| 751 | 15 | 66.99548 | 32.56226 | 752 | 16 | 66.99667 | 32.56031 | 753 | 17 | 66.99711 | 32.56020 |
| 754 | 18 | 66.99673 | 32.56177 | 755 | 19 | 66.99630 | 32.56361 | 756 | 1 | 66.99089 | 32.58036 |
| 757 | 2 | 66.99042 | 32.58123 | 758 | 3 | 66.99020 | 32.58101 | 759 | 4 | 66.98995 | 32.58051 |
| 760 | 5 | 66.98988 | 32.57957 | 761 | 6 | 66.98970 | 32.57852 | 762 | 7 | 66.98977 | 32.57809 |
| 763 | 8 | 66.99013 | 32.57809 | 764 | 9 | 66.99078 | 32.57892 | 765 | 10 | 66.99099 | 32.57964 |
| 766 | 11 | 66.99089 | 32.58036 | 767 | 1 | 66.99262 | 32.57755 | 768 | 2 | 66.99229 | 32.57820 |
| 769 | 3 | 66.99168 | 32.57802 | 770 | 4 | 66.99157 | 32.57730 | 771 | 5 | 66.99128 | 32.57647 |
| 772 | 6 | 66.99143 | 32.57538 | 773 | 7 | 66.99222 | 32.57542 | 774 | 8 | 66.99276 | 32.57567 |
| 775 | 9 | 66.99309 | 32.57585 | 776 | 10 | 66.99309 | 32.57657 | 777 | 11 | 66.99262 | 32.57755 |
| 778 | 1 | 66.99648 | 32.57409 | 779 | 2 | 66.99532 | 32.57427 | 780 | 3 | 66.99507 | 32.57419 |
| 781 | 4 | 66.99496 | 32.57369 | 782 | 5 | 66.99496 | 32.57293 | 783 | 6 | 66.99503 | 32.57239 |
| 784 | 7 | 66.99525 | 32.57189 | 785 | 8 | 66.99557 | 32.57138 | 786 | 9 | 66.99615 | 32.57149 |
| 787 | 10 | 66.99640 | 32.57189 | 788 | 11 | 66.99648 | 32.57300 | 789 | 12 | 66.99648 | 32.57409 |
| 790 | 1 | 66.99651 | 32.57556 | 791 | 2 | 66.99839 | 32.57632 | 792 | 3 | 66.99835 | 32.57657 |
| 793 | 4 | 66.99850 | 32.57762 | 794 | 5 | 66.99860 | 32.57820 | 795 | 6 | 66.99900 | 32.57899 |
| 796 | 7 | 66.99929 | 32.57968 | 797 | 8 | 66.99958 | 32.58040 | 798 | 9 | 67.00008 | 32.58105 |
| 799 | 10 | 67.00037 | 32.58202 | 800 | 11 | 67.00030 | 32.58231 | 801 | 12 | 67.00012 | 32.58289 |
| 802 | 13 | 66.99969 | 32.58292 | 803 | 14 | 66.99911 | 32.58260 | 804 | 15 | 66.99846 | 32.58249 |
| 805 | 16 | 66.99788 | 32.58249 | 806 | 17 | 66.99734 | 32.58213 | 807 | 18 | 66.99691 | 32.58159 |
| 808 | 19 | 66.99626 | 32.58022 | 809 | 20 | 66.99615 | 32.57928 | 810 | 21 | 66.99640 | 32.57751 |
| 811 | 22 | 66.99651 | 32.57556 | 812 | 1 | 67.00553 | 32.57877 | 813 | 2 | 67.00488 | 32.57982 |
| 814 | 3 | 67.00445 | 32.58108 | 815 | 4 | 67.00445 | 32.58173 | 816 | 5 | 67.00466 | 32.58267 |
| 817 | 6 | 67.00474 | 32.58325 | 818 | 7 | 67.00466 | 32.58411 | 819 | 8 | 67.00463 | 32.58487 |
| 820 | 9 | 67.00459 | 32.58584 | 821 | 10 | 67.00445 | 32.58653 | 822 | 11 | 67.00416 | 32.58703 |
| 823 | 12 | 67.00362 | 32.58732 | 824 | 13 | 67.00311 | 32.58703 | 825 | 14 | 67.00311 | 32.58628 |
| 826 | 15 | 67.00315 | 32.58527 | 827 | 16 | 67.00329 | 32.58454 | 828 | 17 | 67.00329 | 32.58382 |
| 829 | 18 | 67.00300 | 32.58263 | 830 | 19 | 67.00254 | 32.58180 | 831 | 20 | 67.00178 | 32.58083 |
| 832 | 21 | 67.00178 | 32.58014 | 833 | 22 | 67.00167 | 32.57950 | 834 | 23 | 67.00171 | 32.57831 |
| 835 | 24 | 67.00178 | 32.57769 | 836 | 25 | 67.00192 | 32.57708 | 837 | 26 | 67.00246 | 32.57632 |
| 838 | 27 | 67.00329 | 32.57603 | 839 | 28 | 67.00373 | 32.57636 | 840 | 29 | 67.00445 | 32.57636 |
| 841 | 30 | 67.00502 | 32.57607 | 842 | 31 | 67.00556 | 32.57639 | 843 | 32 | 67.00556 | 32.57748 |
| 844 | 33 | 67.00553 | 32.57877 | 845 | 1 | 67.00770 | 32.54582 | 846 | 2 | 67.00753 | 32.54640 |
| 847 | 3 | 67.00712 | 32.54677 | 848 | 4 | 67.00662 | 32.54706 | 849 | 5 | 67.00621 | 32.54685 |
| 850 | 6 | 67.00616 | 32.54615 | 851 | 7 | 67.00596 | 32.54511 | 852 | 8 | 67.00616 | 32.54386 |
| 853 | 9 | 67.00637 | 32.54278 | 854 | 10 | 67.00724 | 32.54166 | 855 | 11 | 67.00749 | 32.54149 |
| 856 | 12 | 67.00716 | 32.54258 | 857 | 13 | 67.00695 | 32.54349 | 858 | 14 | 67.00699 | 32.54469 |
| 859 | 15 | 67.00770 | 32.54582 | 860 | 1 | 67.02664 | 32.48370 | 861 | 2 | 67.02651 | 32.48495 |
| 862 | 3 | 67.02622 | 32.48636 | 863 | 4 | 67.02610 | 32.48777 | 864 | 5 | 67.02551 | 32.48931 |
| 865 | 6 | 67.02481 | 32.49189 | 866 | 7 | 67.02394 | 32.49330 | 867 | 8 | 67.02348 | 32.49230 |
| 868 | 9 | 67.02348 | 32.49089 | 869 | 10 | 67.02389 | 32.49006 | 870 | 11 | 67.02406 | 32.48906 |
| 871 | 12 | 67.02435 | 32.48840 | 872 | 13 | 67.02448 | 32.48715 | 873 | 14 | 67.02535 | 32.48503 |
| 874 | 15 | 67.02543 | 32.48412 | 875 | 16 | 67.02605 | 32.48312 | 876 | 17 | 67.02659 | 32.48275 |
| 877 | 18 | 67.02664 | 32.48370 | 878 | 1 | 67.03244 | 32.55828 | 879 | 2 | 67.03268 | 32.55966 |
| 880 | 3 | 67.03250 | 32.56014 | 881 | 4 | 67.03239 | 32.56175 | 882 | 5 | 67.03215 | 32.56331 |
| 883 | 6 | 67.03203 | 32.56540 | 884 | 7 | 67.03167 | 32.56672 | 885 | 8 | 67.03101 | 32.56666 |
| 886 | 9 | 67.03071 | 32.56528 | 887 | 10 | 67.03107 | 32.56253 | 888 | 11 | 67.03125 | 32.56056 |
| 889 | 12 | 67.03089 | 32.55960 | 890 | 13 | 67.03155 | 32.55912 | 891 | 14 | 67.03244 | 32.55828 |
| 892 | 1 | 67.03976 | 32.56393 | 893 | 2 | 67.03986 | 32.56502 | 894 | 3 | 67.04002 | 32.56685 |
| 895 | 4 | 67.04002 | 32.56728 | 896 | 5 | 67.03899 | 32.56994 | 897 | 6 | 67.03707 | 32.57361 |
| 898 | 7 | 67.03678 | 32.57427 | 899 | 8 | 67.03601 | 32.57414 | 900 | 9 | 67.03569 | 32.57401 |
| 901 | 10 | 67.03574 | 32.57363 | 902 | 11 | 67.03609 | 32.57294 | 903 | 12 | 67.03606 | 32.57225 |
| 904 | 13 | 67.03651 | 32.57113 | 905 | 14 | 67.03657 | 32.57060 | 906 | 15 | 67.03681 | 32.56967 |
| 907 | 16 | 67.03782 | 32.56776 | 908 | 17 | 67.03806 | 32.56616 | 909 | 18 | 67.03880 | 32.56555 |
| 910 | 19 | 67.03931 | 32.56443 | 911 | 20 | 67.03976 | 32.56393 | 912 | 1 | 67.01966 | 32.57935 |
| 913 | 2 | 67.01973 | 32.57887 | 914 | 3 | 67.01985 | 32.57837 | 915 | 4 | 67.02005 | 32.57800 |
| 916 | 5 | 67.02026 | 32.57800 | 917 | 6 | 67.02054 | 32.57812 | 918 | 7 | 67.02076 | 32.57862 |
| 919 | 8 | 67.02099 | 32.57908 | 920 | 9 | 67.02131 | 32.57981 | 921 | 10 | 67.02164 | 32.58082 |
| 922 | 11 | 67.02170 | 32.58286 | 923 | 12 | 67.02123 | 32.58390 | 924 | 13 | 67.02095 | 32.58380 |
| 925 | 14 | 67.02074 | 32.58348 | 926 | 15 | 67.02077 | 32.58302 | 927 | 16 | 67.02067 | 32.58245 |
| 928 | 17 | 67.02065 | 32.58151 | 929 | 18 | 67.02065 | 32.58092 | 930 | 19 | 67.02049 | 32.58055 |
| 931 | 20 | 67.02021 | 32.57998 | 932 | 21 | 67.01987 | 32.57984 | 933 | 22 | 67.01966 | 32.57935 |
| 934 | 1 | 67.01158 | 32.61821 | 935 | 2 | 67.01146 | 32.61982 | 936 | 3 | 67.01128 | 32.62084 |
| 937 | 4 | 67.01044 | 32.62108 | 938 | 5 | 67.00978 | 32.62078 | 939 | 6 | 67.00960 | 32.61905 |
| 940 | 7 | 67.00984 | 32.61737 | 941 | 8 | 67.01080 | 32.61683 | 942 | 9 | 67.01158 | 32.61821 |
| 943 | 1 | 66.99728 | 32.60636 | 944 | 2 | 66.99722 | 32.60804 | 945 | 3 | 66.99698 | 32.60959 |
| 946 | 4 | 66.99614 | 32.61199 | 947 | 5 | 66.99524 | 32.61546 | 948 | 6 | 66.99464 | 32.61749 |
| 949 | 7 | 66.99399 | 32.61965 | 950 | 8 | 66.99309 | 32.62138 | 951 | 9 | 66.99273 | 32.62162 |
| 952 | 10 | 66.99231 | 32.62084 | 953 | 11 | 66.99231 | 32.61881 | 954 | 12 | 66.99285 | 32.61641 |
| 955 | 13 | 66.99369 | 32.61378 | 956 | 14 | 66.99458 | 32.61181 | 957 | 15 | 66.99488 | 32.61001 |
| 958 | 16 | 66.99440 | 32.60876 | 959 | 17 | 66.99405 | 32.60828 | 960 | 18 | 66.99482 | 32.60612 |
| 961 | 19 | 66.99512 | 32.60481 | 962 | 20 | 66.99626 | 32.60367 | 963 | 21 | 66.99704 | 32.60361 |
| 964 | 22 | 66.99740 | 32.60523 | 965 | 23 | 66.99728 | 32.60636 | 966 | 1 | 66.98968 | 32.68905 |
| 967 | 2 | 66.98980 | 32.68737 | 968 | 3 | 66.99040 | 32.68683 | 969 | 4 | 66.99147 | 32.68630 |
| 970 | 5 | 66.99159 | 32.68695 | 971 | 6 | 66.99141 | 32.68821 | 972 | 7 | 66.99141 | 32.68917 |
| 973 | 8 | 66.99123 | 32.69006 | 974 | 9 | 66.99064 | 32.69048 | 975 | 10 | 66.98992 | 32.69006 |
| 976 | 11 | 66.98968 | 32.68905 | 977 | 1 | 67.00111 | 32.67044 | 978 | 2 | 67.00069 | 32.67170 |
| 979 | 3 | 67.00087 | 32.67307 | 980 | 4 | 67.00105 | 32.67475 | 981 | 5 | 67.00087 | 32.67606 |
| 982 | 6 | 67.00045 | 32.67714 | 983 | 7 | 66.99961 | 32.67708 | 984 | 8 | 66.99901 | 32.67666 |
| 985 | 9 | 66.99889 | 32.67523 | 986 | 10 | 66.99919 | 32.67343 | 987 | 11 | 66.99919 | 32.67218 |
| 988 | 12 | 66.99919 | 32.67086 | 989 | 13 | 66.99991 | 32.66948 | 990 | 14 | 67.00063 | 32.66888 |
| 991 | 15 | 67.00176 | 32.66930 | 992 | 16 | 67.00111 | 32.67044 | 993 | 1 | 67.01635 | 32.66796 |
| 994 | 2 | 67.01670 | 32.66899 | 995 | 3 | 67.01683 | 32.66971 | 996 | 4 | 67.01664 | 32.67046 |
| 997 | 5 | 67.01614 | 32.67086 | 998 | 6 | 67.01587 | 32.67056 | 999 | 7 | 67.01542 | 32.66998 |
| 1000 | 8 | 67.01518 | 32.66963 | 1001 | 9 | 67.01524 | 32.66910 | 1002 | 10 | 67.01537 | 32.66828 |
| 1003 | 11 | 67.01542 | 32.66735 | 1004 | 12 | 67.01595 | 32.66740 | 1005 | 13 | 67.01635 | 32.66796 |
| 1006 | 1 | 66.98209 | 32.60866 | 1007 | 2 | 66.98173 | 32.60762 | 1008 | 3 | 66.98161 | 32.60734 |
| 1009 | 4 | 66.98117 | 32.60543 | 1010 | 5 | 66.98061 | 32.60439 | 1011 | 6 | 66.97977 | 32.60507 |
| 1012 | 7 | 66.97909 | 32.60698 | 1013 | 8 | 66.97882 | 32.60929 | 1014 | 9 | 66.97854 | 32.60997 |
| 1015 | 10 | 66.97854 | 32.60882 | 1016 | 11 | 66.97854 | 32.60726 | 1017 | 12 | 66.97862 | 32.60578 |
| 1018 | 13 | 66.97886 | 32.60447 | 1019 | 14 | 66.97921 | 32.60291 | 1020 | 15 | 66.97917 | 32.60227 |
| 1021 | 16 | 66.97854 | 32.60164 | 1022 | 17 | 66.97798 | 32.60056 | 1023 | 18 | 66.97762 | 32.59908 |
| 1024 | 19 | 66.97762 | 32.59753 | 1025 | 20 | 66.97786 | 32.59613 | 1026 | 21 | 66.97826 | 32.59577 |
| 1027 | 22 | 66.97890 | 32.59577 | 1028 | 23 | 66.97953 | 32.59685 | 1029 | 24 | 66.98037 | 32.59924 |
| 1030 | 25 | 66.98061 | 32.59984 | 1031 | 26 | 66.98093 | 32.59872 | 1032 | 27 | 66.98125 | 32.59761 |
| 1033 | 28 | 66.98157 | 32.59649 | 1034 | 29 | 66.98125 | 32.59482 | 1035 | 30 | 66.98145 | 32.59386 |
| 1036 | 31 | 66.98217 | 32.59342 | 1037 | 32 | 66.98288 | 32.59282 | 1038 | 33 | 66.98384 | 32.59274 |
| 1039 | 34 | 66.98464 | 32.59274 | 1040 | 35 | 66.98496 | 32.59366 | 1041 | 36 | 66.98524 | 32.59490 |
| 1042 | 37 | 66.98520 | 32.59673 | 1043 | 38 | 66.98452 | 32.59845 | 1044 | 39 | 66.98396 | 32.60032 |
| 1045 | 40 | 66.98360 | 32.60196 | 1046 | 41 | 66.98348 | 32.60295 | 1047 | 42 | 66.98320 | 32.60499 |
| 1048 | 43 | 66.98260 | 32.60738 | 1049 | 44 | 66.98209 | 32.60866 | 1050 | 1 | 66.98304 | 32.61109 |
| 1051 | 2 | 66.98328 | 32.61197 | 1052 | 3 | 66.98328 | 32.61288 | 1053 | 4 | 66.98328 | 32.61392 |
| 1054 | 5 | 66.98296 | 32.61436 | 1055 | 6 | 66.98249 | 32.61472 | 1056 | 7 | 66.98189 | 32.61472 |
| 1057 | 8 | 66.98157 | 32.61428 | 1058 | 9 | 66.98157 | 32.61332 | 1059 | 10 | 66.98161 | 32.61292 |
| 1060 | 11 | 66.98169 | 32.61225 | 1061 | 12 | 66.98181 | 32.61137 | 1062 | 13 | 66.98197 | 32.61037 |
| 1063 | 14 | 66.98241 | 32.61025 | 1064 | 15 | 66.98288 | 32.61033 | 1065 | 16 | 66.98304 | 32.61109 |
| 1066 | 1 | 66.97886 | 32.61580 | 1067 | 2 | 66.97937 | 32.61612 | 1068 | 3 | 66.97949 | 32.61683 |
| 1069 | 4 | 66.97949 | 32.61791 | 1070 | 5 | 66.97941 | 32.61895 | 1071 | 6 | 66.97913 | 32.61939 |
| 1072 | 7 | 66.97878 | 32.61939 | 1073 | 8 | 66.97822 | 32.61891 | 1074 | 9 | 66.97802 | 32.61819 |
| 1075 | 10 | 66.97810 | 32.61739 | 1076 | 11 | 66.97834 | 32.61651 | 1077 | 12 | 66.97886 | 32.61580 |
| 1078 | 1 | 66.97363 | 32.61528 | 1079 | 2 | 66.97399 | 32.61592 | 1080 | 3 | 66.97443 | 32.61643 |
| 1081 | 4 | 66.97463 | 32.61743 | 1082 | 5 | 66.97487 | 32.61871 | 1083 | 6 | 66.97483 | 32.61994 |
| 1084 | 7 | 66.97495 | 32.62110 | 1085 | 8 | 66.97447 | 32.62182 | 1086 | 9 | 66.97391 | 32.62186 |
| 1087 | 10 | 66.97363 | 32.62022 | 1088 | 11 | 66.97331 | 32.61959 | 1089 | 12 | 66.97323 | 32.61867 |
| 1090 | 13 | 66.97291 | 32.61755 | 1091 | 14 | 66.97279 | 32.61663 | 1092 | 15 | 66.97279 | 32.61600 |
| 1093 | 16 | 66.97299 | 32.61456 | 1094 | 17 | 66.97363 | 32.61528 | 1095 | 1 | 66.99753 | 32.59565 |
| 1096 | 2 | 66.99676 | 32.59688 | 1097 | 3 | 66.99596 | 32.59728 | 1098 | 4 | 66.99540 | 32.59778 |
| 1099 | 5 | 66.99474 | 32.59807 | 1100 | 6 | 66.99407 | 32.59805 | 1101 | 7 | 66.99407 | 32.59770 |
| 1102 | 8 | 66.99439 | 32.59693 | 1103 | 9 | 66.99474 | 32.59626 | 1104 | 10 | 66.99538 | 32.59589 |
| 1105 | 11 | 66.99591 | 32.59536 | 1106 | 12 | 66.99644 | 32.59480 | 1107 | 13 | 66.99692 | 32.59456 |
| 1108 | 14 | 66.99724 | 32.59432 | 1109 | 15 | 66.99764 | 32.59443 | 1110 | 16 | 66.99753 | 32.59565 |

## Сообщество глубоководных илов

Эти сообщества формируются в глубоких ямах (более 20 м), в которых задерживается холодная зимняя водная масса. Виды комплекса, описанного выше, здесь также могут быть представлены, но их обилие заметно ниже. Наиболее заметные отличия касаются обилия двустворчатых моллюсков. В этом комплексе ведущую роль играют двустворки *Portlandia arctica*.

Эти сообщества представлены в северо-западной части Западной Ряжковой салмы Рисунок 6. Небольшие пятна этого сообщества были отмечены и в некоторых других местах.



**Рисунок 6.** Карта распределения собществ, связнных с глубоководными сублиторальными илами. Map of distribution of assemblages associated with deep-water sublittoral muds

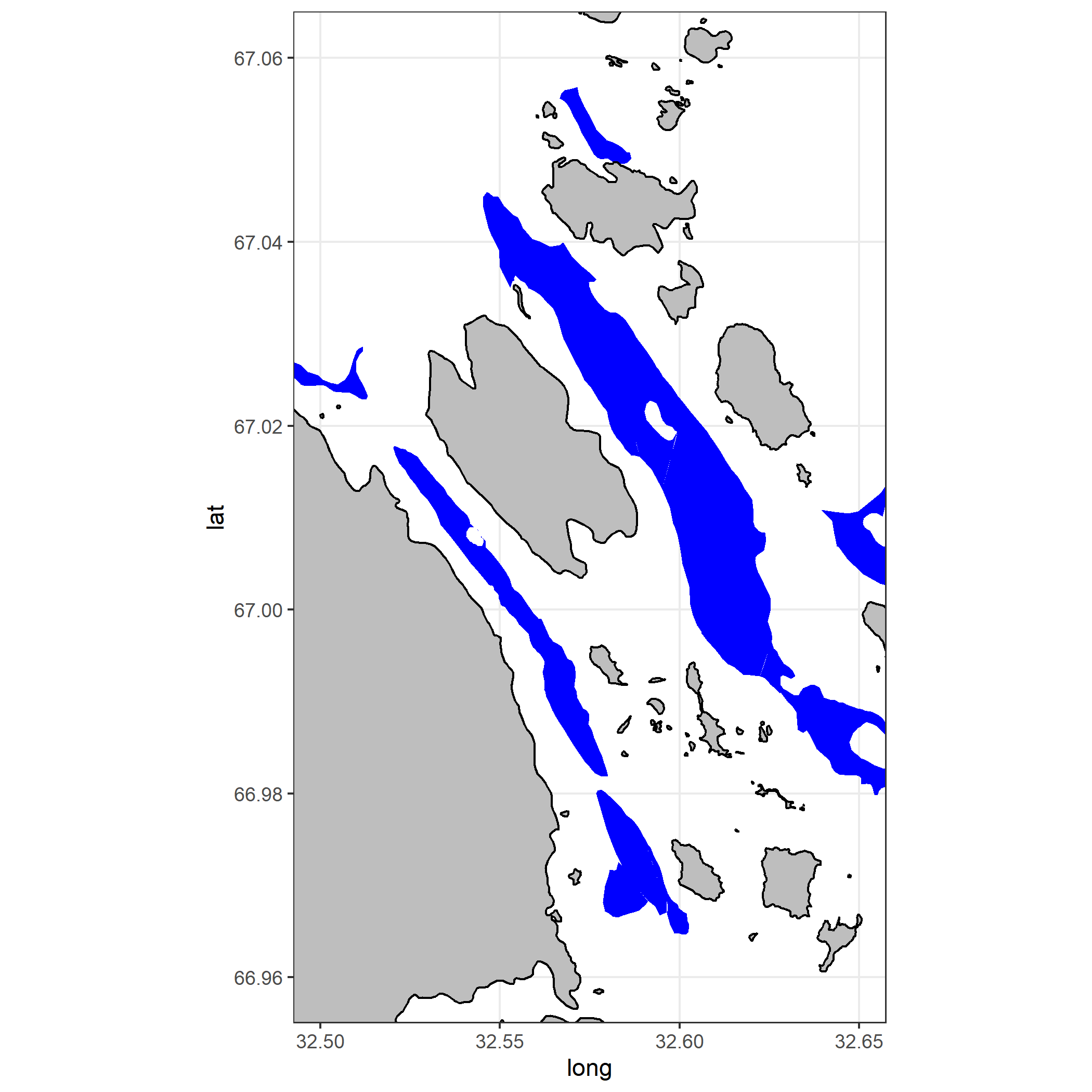
Таблица +.5. Координаты опорных точек полигонов, описывающих сообщества, связанные с глубоководными сублиторальными илами. Coordinates of polygon reference points describing communities associated with deep-water sublittoral muds

| № точки | Порядок | N | E | № точки | Порядок | N | E | № точки | Порядок | N | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 67.02867 | 32.51188 | 2 | 2 | 67.02839 | 32.51063 | 3 | 3 | 67.02815 | 32.50994 |
| 4 | 4 | 67.02718 | 32.50908 | 5 | 5 | 67.02629 | 32.50842 | 6 | 6 | 67.02570 | 32.50787 |
| 7 | 7 | 67.02504 | 32.50673 | 8 | 8 | 67.02480 | 32.50604 | 9 | 9 | 67.02449 | 32.50480 |
| 10 | 10 | 67.02463 | 32.50373 | 11 | 11 | 67.02470 | 32.50294 | 12 | 12 | 67.02504 | 32.50059 |
| 13 | 13 | 67.02553 | 32.49928 | 14 | 14 | 67.02587 | 32.49649 | 15 | 15 | 67.02663 | 32.49449 |
| 16 | 16 | 67.02694 | 32.49239 | 17 | 17 | 67.02746 | 32.49004 | 18 | 18 | 67.02780 | 32.48828 |
| 19 | 19 | 67.02822 | 32.48673 | 20 | 20 | 67.02842 | 32.48576 | 21 | 21 | 67.02891 | 32.48473 |
| 22 | 22 | 67.02898 | 32.48349 | 23 | 23 | 67.02911 | 32.48225 | 24 | 24 | 67.02932 | 32.48135 |
| 25 | 25 | 67.02956 | 32.47893 | 26 | 26 | 67.03001 | 32.47666 | 27 | 27 | 67.03029 | 32.47435 |
| 28 | 28 | 67.03084 | 32.47190 | 29 | 29 | 67.03084 | 32.47014 | 30 | 30 | 67.03125 | 32.46917 |
| 31 | 31 | 67.03153 | 32.46824 | 32 | 32 | 67.03167 | 32.46762 | 33 | 33 | 67.03191 | 32.46617 |
| 34 | 34 | 67.03225 | 32.46462 | 35 | 35 | 67.03253 | 32.46335 | 36 | 36 | 67.03305 | 32.46195 |
| 37 | 37 | 67.03374 | 32.46012 | 38 | 38 | 67.03412 | 32.45854 | 39 | 39 | 67.03456 | 32.45712 |
| 40 | 40 | 67.03536 | 32.45516 | 41 | 41 | 67.03594 | 32.45354 | 42 | 42 | 67.03725 | 32.45175 |
| 43 | 43 | 67.03860 | 32.45040 | 44 | 44 | 67.04039 | 32.44885 | 45 | 45 | 67.04222 | 32.44751 |
| 46 | 46 | 67.04391 | 32.44664 | 47 | 47 | 67.04546 | 32.44623 | 48 | 48 | 67.04705 | 32.44633 |
| 49 | 49 | 67.04805 | 32.44671 | 50 | 50 | 67.04853 | 32.44692 | 51 | 51 | 67.04908 | 32.44761 |
| 52 | 52 | 67.04981 | 32.44733 | 53 | 53 | 67.05046 | 32.44744 | 54 | 54 | 67.05119 | 32.44795 |
| 55 | 55 | 67.05184 | 32.44857 | 56 | 56 | 67.05250 | 32.44864 | 57 | 57 | 67.05315 | 32.44851 |
| 58 | 58 | 67.05425 | 32.44831 | 59 | 59 | 67.05404 | 32.44883 | 60 | 60 | 67.02867 | 32.51188 |
| 61 | 1 | 67.03566 | 32.57612 | 62 | 2 | 67.03598 | 32.57706 | 63 | 3 | 67.03611 | 32.57818 |
| 64 | 4 | 67.03589 | 32.57881 | 65 | 5 | 67.03566 | 32.57980 | 66 | 6 | 67.03530 | 32.58047 |
| 67 | 7 | 67.03494 | 32.58133 | 68 | 8 | 67.03449 | 32.58191 | 69 | 9 | 67.03409 | 32.58276 |
| 70 | 10 | 67.03324 | 32.58303 | 71 | 11 | 67.03238 | 32.58214 | 72 | 12 | 67.03234 | 32.58160 |
| 73 | 13 | 67.03234 | 32.58079 | 74 | 14 | 67.03270 | 32.57908 | 75 | 15 | 67.03315 | 32.57796 |
| 76 | 16 | 67.03351 | 32.57720 | 77 | 17 | 67.03396 | 32.57625 | 78 | 18 | 67.03449 | 32.57544 |
| 79 | 19 | 67.03512 | 32.57482 | 80 | 20 | 67.03562 | 32.57477 | 81 | 21 | 67.03571 | 32.57522 |
| 82 | 22 | 67.03566 | 32.57612 | 83 | 1 | 67.02241 | 32.59080 | 84 | 2 | 67.02255 | 32.59184 |
| 85 | 3 | 67.02241 | 32.59080 | 86 | 4 | 67.02277 | 32.59175 | 87 | 5 | 67.02264 | 32.59278 |
| 88 | 6 | 67.02250 | 32.59350 | 89 | 7 | 67.02201 | 32.59408 | 90 | 8 | 67.02152 | 32.59449 |
| 91 | 9 | 67.02102 | 32.59489 | 92 | 10 | 67.02062 | 32.59529 | 93 | 11 | 67.02030 | 32.59583 |
| 94 | 12 | 67.02008 | 32.59642 | 95 | 13 | 67.01999 | 32.59731 | 96 | 14 | 67.01985 | 32.59799 |
| 97 | 15 | 67.01954 | 32.59866 | 98 | 16 | 67.01936 | 32.59938 | 99 | 17 | 67.01873 | 32.59907 |
| 100 | 18 | 67.01851 | 32.59799 | 101 | 19 | 67.01842 | 32.59705 | 102 | 20 | 67.01864 | 32.59583 |
| 103 | 21 | 67.01900 | 32.59471 | 104 | 22 | 67.01945 | 32.59359 | 105 | 23 | 67.01994 | 32.59233 |
| 106 | 24 | 67.02066 | 32.59085 | 107 | 25 | 67.02156 | 32.59026 | 108 | 26 | 67.02241 | 32.59080 |
| 109 | 1 | 66.96368 | 32.57386 | 110 | 2 | 66.96369 | 32.57385 | 111 | 3 | 66.96422 | 32.57541 |
| 112 | 4 | 66.96455 | 32.57645 | 113 | 5 | 66.96481 | 32.57768 | 114 | 6 | 66.96526 | 32.57884 |
| 115 | 7 | 66.96552 | 32.58026 | 116 | 8 | 66.96539 | 32.58149 | 117 | 9 | 66.96558 | 32.58324 |
| 118 | 10 | 66.96578 | 32.58453 | 119 | 11 | 66.96610 | 32.58641 | 120 | 12 | 66.96603 | 32.58790 |
| 121 | 13 | 66.96623 | 32.58951 | 122 | 14 | 66.96629 | 32.59106 | 123 | 15 | 66.96662 | 32.59281 |
| 124 | 16 | 66.96675 | 32.59436 | 125 | 17 | 66.96668 | 32.59540 | 126 | 18 | 66.96623 | 32.59663 |
| 127 | 19 | 66.96539 | 32.59779 | 128 | 20 | 66.96481 | 32.59850 | 129 | 21 | 66.96448 | 32.59740 |
| 130 | 22 | 66.96358 | 32.59572 | 131 | 23 | 66.96306 | 32.59462 | 132 | 24 | 66.96254 | 32.59236 |
| 133 | 25 | 66.96183 | 32.59106 | 134 | 26 | 66.96099 | 32.58997 | 135 | 27 | 66.96093 | 32.58874 |
| 136 | 28 | 66.96067 | 32.58757 | 137 | 29 | 66.96041 | 32.58660 | 138 | 30 | 66.96028 | 32.58602 |
| 139 | 31 | 66.96047 | 32.58537 | 140 | 32 | 66.96060 | 32.58440 | 141 | 33 | 66.96060 | 32.58382 |
| 142 | 34 | 66.96067 | 32.58272 | 143 | 35 | 66.96067 | 32.58136 | 144 | 36 | 66.96060 | 32.58046 |
| 145 | 37 | 66.96073 | 32.57942 | 146 | 38 | 66.96047 | 32.57813 | 147 | 39 | 66.95988 | 32.57668 |
| 148 | 40 | 66.96071 | 32.57644 | 149 | 41 | 66.96132 | 32.57600 | 150 | 42 | 66.96161 | 32.57556 |
| 151 | 43 | 66.96220 | 32.57512 | 152 | 44 | 66.96271 | 32.57456 | 153 | 45 | 66.96354 | 32.57392 |
| 154 | 46 | 66.96368 | 32.57386 | 155 | 47 | 66.96310 | 32.57429 | 156 | 48 | 66.96368 | 32.57386 |
| 157 | 1 | 67.05425 | 32.44831 | 158 | 2 | 67.05618 | 32.45094 | 159 | 3 | 67.05691 | 32.45300 |
| 160 | 4 | 67.05606 | 32.45639 | 161 | 5 | 67.05521 | 32.45821 | 162 | 6 | 67.05315 | 32.46015 |
| 163 | 7 | 67.05157 | 32.46270 | 164 | 8 | 67.04975 | 32.46452 | 165 | 9 | 67.04878 | 32.46670 |
| 166 | 10 | 67.04733 | 32.46997 | 167 | 11 | 67.04684 | 32.47349 | 168 | 12 | 67.04612 | 32.47749 |
| 169 | 13 | 67.04587 | 32.48089 | 170 | 14 | 67.04563 | 32.48477 | 171 | 15 | 67.04575 | 32.48780 |
| 172 | 16 | 67.04587 | 32.49180 | 173 | 17 | 67.04515 | 32.49459 | 174 | 18 | 67.04539 | 32.49810 |
| 175 | 19 | 67.04587 | 32.50138 | 176 | 20 | 67.04599 | 32.50356 | 177 | 21 | 67.04599 | 32.50599 |
| 178 | 22 | 67.04733 | 32.50526 | 179 | 23 | 67.04830 | 32.50417 | 180 | 24 | 67.04951 | 32.50320 |
| 181 | 25 | 67.05060 | 32.50295 | 182 | 26 | 67.05157 | 32.50380 | 183 | 27 | 67.05206 | 32.50562 |
| 184 | 28 | 67.05218 | 32.50865 | 185 | 29 | 67.05194 | 32.51108 | 186 | 30 | 67.05218 | 32.51362 |
| 187 | 31 | 67.05218 | 32.51835 | 188 | 32 | 67.05206 | 32.52054 | 189 | 33 | 67.05157 | 32.52611 |
| 190 | 34 | 67.05097 | 32.52999 | 191 | 35 | 67.05036 | 32.53339 | 192 | 36 | 67.04975 | 32.53739 |
| 193 | 37 | 67.04975 | 32.54066 | 194 | 38 | 67.05000 | 32.54273 | 195 | 39 | 67.05060 | 32.54527 |
| 196 | 40 | 67.05109 | 32.54733 | 197 | 41 | 67.05169 | 32.54915 | 198 | 42 | 67.05109 | 32.55134 |
| 199 | 43 | 67.04959 | 32.55495 | 200 | 44 | 67.04831 | 32.55575 | 201 | 45 | 67.04724 | 32.55793 |
| 202 | 46 | 67.04630 | 32.55974 | 203 | 47 | 67.04534 | 32.56101 | 204 | 48 | 67.04507 | 32.56131 |
| 205 | 49 | 67.04368 | 32.56027 | 206 | 50 | 67.04292 | 32.55896 | 207 | 51 | 67.04242 | 32.55803 |
| 208 | 52 | 67.04201 | 32.55738 | 209 | 53 | 67.04147 | 32.55643 | 210 | 54 | 67.04151 | 32.55631 |
| 211 | 55 | 67.04211 | 32.55570 | 212 | 56 | 67.04272 | 32.55485 | 213 | 57 | 67.04296 | 32.55376 |
| 214 | 58 | 67.04333 | 32.55279 | 215 | 59 | 67.04357 | 32.55182 | 216 | 60 | 67.04405 | 32.55085 |
| 217 | 61 | 67.04490 | 32.54988 | 218 | 62 | 67.04490 | 32.54830 | 219 | 63 | 67.04539 | 32.54709 |
| 220 | 64 | 67.04539 | 32.54612 | 221 | 65 | 67.04515 | 32.54552 | 222 | 66 | 67.04466 | 32.54503 |
| 223 | 67 | 67.04381 | 32.54527 | 224 | 68 | 67.04260 | 32.54600 | 225 | 69 | 67.04151 | 32.54673 |
| 226 | 70 | 67.04066 | 32.54770 | 227 | 71 | 67.04005 | 32.54830 | 228 | 72 | 67.03957 | 32.54915 |
| 229 | 73 | 67.03896 | 32.54976 | 230 | 74 | 67.03823 | 32.54976 | 231 | 75 | 67.03726 | 32.54988 |
| 232 | 76 | 67.03666 | 32.55073 | 233 | 77 | 67.03504 | 32.55281 | 234 | 78 | 67.03470 | 32.55281 |
| 235 | 79 | 67.03441 | 32.55298 | 236 | 80 | 67.03301 | 32.55388 | 237 | 81 | 67.03203 | 32.55404 |
| 238 | 82 | 67.03201 | 32.55344 | 239 | 83 | 67.03240 | 32.55232 | 240 | 84 | 67.03283 | 32.55111 |
| 241 | 85 | 67.03334 | 32.54914 | 242 | 86 | 67.03403 | 32.54720 | 243 | 87 | 67.03434 | 32.54577 |
| 244 | 88 | 67.03480 | 32.54402 | 245 | 89 | 67.03509 | 32.54277 | 246 | 90 | 67.03524 | 32.54197 |
| 247 | 91 | 67.03521 | 32.54019 | 248 | 92 | 67.03526 | 32.53928 | 249 | 93 | 67.03472 | 32.53713 |
| 250 | 94 | 67.03299 | 32.53623 | 251 | 95 | 67.03194 | 32.53663 | 252 | 96 | 67.03079 | 32.53733 |
| 253 | 97 | 67.02952 | 32.53833 | 254 | 98 | 67.02946 | 32.53831 | 255 | 99 | 67.02905 | 32.53818 |
| 256 | 100 | 67.02772 | 32.53777 | 257 | 101 | 67.02758 | 32.53720 | 258 | 102 | 67.02830 | 32.53543 |
| 259 | 103 | 67.02936 | 32.53419 | 260 | 104 | 67.03023 | 32.53287 | 261 | 105 | 67.03146 | 32.53158 |
| 262 | 106 | 67.03305 | 32.53021 | 263 | 107 | 67.03419 | 32.52922 | 264 | 108 | 67.03526 | 32.52791 |
| 265 | 109 | 67.03658 | 32.52610 | 266 | 110 | 67.03782 | 32.52478 | 267 | 111 | 67.03868 | 32.52361 |
| 268 | 112 | 67.03995 | 32.52147 | 269 | 113 | 67.04073 | 32.52016 | 270 | 114 | 67.04180 | 32.51911 |
| 271 | 115 | 67.04219 | 32.51779 | 272 | 116 | 67.04224 | 32.51644 | 273 | 117 | 67.04269 | 32.51497 |
| 274 | 118 | 67.04285 | 32.51302 | 275 | 119 | 67.04258 | 32.51081 | 276 | 120 | 67.04192 | 32.50918 |
| 277 | 121 | 67.04141 | 32.50822 | 278 | 122 | 67.04024 | 32.50685 | 279 | 123 | 67.03953 | 32.50700 |
| 280 | 124 | 67.03865 | 32.50783 | 281 | 125 | 67.03809 | 32.50846 | 282 | 126 | 67.03756 | 32.50945 |
| 283 | 127 | 67.03707 | 32.51073 | 284 | 128 | 67.03667 | 32.51181 | 285 | 129 | 67.03611 | 32.51278 |
| 286 | 130 | 67.03514 | 32.51449 | 287 | 131 | 67.03466 | 32.51575 | 288 | 132 | 67.03293 | 32.51674 |
| 289 | 133 | 67.03150 | 32.51613 | 290 | 134 | 67.03099 | 32.51530 | 291 | 135 | 67.03087 | 32.51471 |
| 292 | 136 | 67.03084 | 32.51413 | 293 | 137 | 67.03057 | 32.51347 | 294 | 138 | 67.02999 | 32.51264 |
| 295 | 139 | 67.02969 | 32.51237 | 296 | 140 | 67.02905 | 32.51208 | 297 | 141 | 67.02867 | 32.51188 |
| 298 | 142 | 67.05425 | 32.44831 |  |  |  |  |  |  |  |  |

## Сообщество гравийно-галичных промытых грунтов

Это сообщество формируется на глубине 15-25 м на участках, где наблюдаются быстрые приливно-отливные течения. Такие условия складываются в узких относительно глубоководных проливах, например, в Восточной и Западной Ряжковой салмах Рисунок 7.

Поскольку это сообщество формируется приблизительно в том же диапазоне глубин, что и сообщество мелководных илов, то в сообществах гравийно-галичных промытых грунтов могут быть найдены виды характерные и для заиленных участков (роющиеся и строящие трубки полихеты, зарывающиеся в грунт моллюски, бокоплавы и кумовые раки). Степень сходства зависит от уровня заиленности тех участках проливов, которые находятся в «гидродинамической тени» (см. выше). При ослаблении течений за счет порогов и ям могут формироваться сообщества очень близкие к сообществам мелководных илов. Однако в остальных участках, где быстрые течения вымывают ил, облик сообщества иной. Здесь на лишенном илистого покрова гравии и гальке богато представлено сообщество обрастателей. К числу видов, которые формируют облик этого сообщества относятся усоногие раки *Balanus balanus* и *B.crenatus*, плеченогие *Hemithiris psittacea*, крупные гидроидные полипы Tubularia и несколько видов асцидий (*Boltenia echinata*, *Stiela rustica*, несколько видов *Molgula*). На поверхности грунта в этом сообществе в большом количестве встречаются иглокожие: офиуры (*Ophiopholis aculeata*, *Ophiura robusta*) и морские звезды (*Asterias rubens*, *Crossaster papposus*, *Henricia* sp.).



**Рисунок 7.** Карта распределения собществ, связнных с промытыми гравийно-галичными грунтами. Map of the distribution of communities associated with washed gravel and pabble sediments.

Таблица +.6. Координаты опорных точек полигонов, описывающих сообщества, связанные с промыыыми гравийно-галечными грунтами. Coordinates of reference points of polygons describing communities associated with washed gravel and pebble sediments.

| № точки | Порядок | N | E | № точки | Порядок | N | E | № точки | Порядок | N | E |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 67.02422 | 32.59793 | 2 | 2 | 67.02325 | 32.59950 | 3 | 3 | 67.01936 | 32.59938 |
| 4 | 4 | 67.01954 | 32.59866 | 5 | 5 | 67.01985 | 32.59799 | 6 | 6 | 67.01999 | 32.59731 |
| 7 | 7 | 67.02008 | 32.59642 | 8 | 8 | 67.02030 | 32.59583 | 9 | 9 | 67.02062 | 32.59529 |
| 10 | 10 | 67.02102 | 32.59489 | 11 | 11 | 67.02422 | 32.59793 | 12 | 1 | 67.01317 | 32.59515 |
| 13 | 2 | 67.01525 | 32.59220 | 14 | 3 | 67.01664 | 32.58891 | 15 | 4 | 67.01994 | 32.59233 |
| 16 | 5 | 67.01941 | 32.59369 | 17 | 6 | 67.01900 | 32.59471 | 18 | 7 | 67.01864 | 32.59586 |
| 19 | 8 | 67.01842 | 32.59705 | 20 | 9 | 67.01851 | 32.59799 | 21 | 10 | 67.01936 | 32.59938 |
| 22 | 11 | 67.01317 | 32.59515 | 23 | 1 | 67.02325 | 32.59950 | 24 | 2 | 67.02255 | 32.60106 |
| 25 | 3 | 67.02153 | 32.60316 | 26 | 4 | 67.01938 | 32.60771 | 27 | 5 | 67.01878 | 32.60858 |
| 28 | 6 | 67.01817 | 32.60983 | 29 | 7 | 67.01734 | 32.61128 | 30 | 8 | 67.01628 | 32.61287 |
| 31 | 9 | 67.01530 | 32.61444 | 32 | 10 | 67.01443 | 32.61624 | 33 | 11 | 67.01372 | 32.61741 |
| 34 | 12 | 67.01317 | 32.61814 | 35 | 13 | 67.01253 | 32.61935 | 36 | 14 | 67.01203 | 32.62023 |
| 37 | 15 | 67.01052 | 32.62065 | 38 | 16 | 66.99830 | 32.60489 | 39 | 17 | 66.99946 | 32.60367 |
| 40 | 18 | 67.00056 | 32.60292 | 41 | 19 | 67.00258 | 32.60267 | 42 | 20 | 67.00501 | 32.60075 |
| 43 | 21 | 67.00799 | 32.59952 | 44 | 22 | 67.00888 | 32.59876 | 45 | 23 | 67.00944 | 32.59819 |
| 46 | 24 | 67.01111 | 32.59724 | 47 | 25 | 67.01317 | 32.59515 | 48 | 26 | 67.01873 | 32.59907 |
| 49 | 27 | 67.01936 | 32.59938 | 50 | 28 | 67.02325 | 32.59950 | 51 | 1 | 66.99100 | 32.62773 |
| 52 | 2 | 66.99144 | 32.62667 | 53 | 3 | 66.99188 | 32.62527 | 54 | 4 | 66.99223 | 32.62474 |
| 55 | 5 | 66.99258 | 32.62351 | 56 | 6 | 66.99277 | 32.62242 | 57 | 7 | 66.99659 | 32.62561 |
| 58 | 8 | 66.99575 | 32.62621 | 59 | 9 | 66.99548 | 32.62718 | 60 | 10 | 66.99505 | 32.62758 |
| 61 | 11 | 66.99458 | 32.62825 | 62 | 12 | 66.99415 | 32.62899 | 63 | 13 | 66.99395 | 32.62981 |
| 64 | 14 | 66.99368 | 32.63083 | 65 | 15 | 66.99328 | 32.63170 | 66 | 16 | 66.99277 | 32.63228 |
| 67 | 17 | 66.99250 | 32.63103 | 68 | 18 | 66.99274 | 32.62989 | 69 | 19 | 66.99281 | 32.62923 |
| 70 | 20 | 66.99285 | 32.62860 | 71 | 21 | 66.99270 | 32.62821 | 72 | 22 | 66.99211 | 32.62817 |
| 73 | 23 | 66.99089 | 32.62797 | 74 | 24 | 66.99100 | 32.62773 | 75 | 1 | 66.97918 | 32.65897 |
| 76 | 2 | 66.98020 | 32.66502 | 77 | 3 | 66.97834 | 32.66606 | 78 | 4 | 66.97705 | 32.66396 |
| 79 | 5 | 66.97575 | 32.66516 | 80 | 6 | 66.97426 | 32.66616 | 81 | 7 | 66.97286 | 32.66676 |
| 82 | 8 | 66.97226 | 32.66825 | 83 | 9 | 66.97077 | 32.66945 | 84 | 10 | 66.96917 | 32.66955 |
| 85 | 11 | 66.96778 | 32.67074 | 86 | 12 | 66.96698 | 32.66945 | 87 | 13 | 66.96678 | 32.66815 |
| 88 | 14 | 66.96578 | 32.66745 | 89 | 15 | 66.96479 | 32.66646 | 90 | 16 | 66.96359 | 32.66516 |
| 91 | 17 | 66.96279 | 32.66327 | 92 | 18 | 66.96399 | 32.66147 | 93 | 19 | 66.96538 | 32.66028 |
| 94 | 20 | 66.96738 | 32.65968 | 95 | 21 | 66.96957 | 32.65968 | 96 | 22 | 66.97186 | 32.65958 |
| 97 | 23 | 66.97486 | 32.65988 | 98 | 24 | 66.97705 | 32.65988 | 99 | 25 | 66.97919 | 32.65898 |
| 100 | 26 | 66.97927 | 32.65939 | 101 | 27 | 66.97918 | 32.65897 | 102 | 1 | 66.97442 | 32.59129 |
| 103 | 2 | 66.97410 | 32.59194 | 104 | 3 | 66.97336 | 32.59268 | 105 | 4 | 66.97265 | 32.59356 |
| 106 | 5 | 66.97215 | 32.59433 | 107 | 6 | 66.97139 | 32.59494 | 108 | 7 | 66.97065 | 32.59542 |
| 109 | 8 | 66.97018 | 32.59565 | 110 | 9 | 66.96912 | 32.59668 | 111 | 10 | 66.96853 | 32.59765 |
| 112 | 11 | 66.96818 | 32.59847 | 113 | 12 | 66.96788 | 32.59948 | 114 | 13 | 66.96750 | 32.59978 |
| 115 | 14 | 66.96712 | 32.60101 | 116 | 15 | 66.96697 | 32.60200 | 117 | 16 | 66.96610 | 32.60224 |
| 118 | 17 | 66.96567 | 32.60260 | 119 | 18 | 66.96518 | 32.60258 | 120 | 19 | 66.96488 | 32.60257 |
| 121 | 20 | 66.96461 | 32.60170 | 122 | 21 | 66.96464 | 32.60086 | 123 | 22 | 66.96475 | 32.60011 |
| 124 | 23 | 66.96481 | 32.59850 | 125 | 24 | 66.96573 | 32.59732 | 126 | 25 | 66.96677 | 32.59653 |
| 127 | 26 | 66.96706 | 32.59642 | 128 | 27 | 66.96727 | 32.59678 | 129 | 28 | 66.96779 | 32.59676 |
| 130 | 29 | 66.96824 | 32.59646 | 131 | 30 | 66.96901 | 32.59576 | 132 | 31 | 66.96988 | 32.59487 |
| 133 | 32 | 66.97035 | 32.59428 | 134 | 33 | 66.97112 | 32.59333 | 135 | 34 | 66.97160 | 32.59299 |
| 136 | 35 | 66.97233 | 32.59254 | 137 | 36 | 66.97280 | 32.59213 | 138 | 37 | 66.97326 | 32.59154 |
| 139 | 38 | 66.97403 | 32.59104 | 140 | 39 | 66.97442 | 32.59129 | 141 | 1 | 66.96831 | 32.59117 |
| 142 | 2 | 66.96783 | 32.59049 | 143 | 3 | 66.96761 | 32.58984 | 144 | 4 | 66.96743 | 32.58929 |
| 145 | 5 | 66.96724 | 32.58859 | 146 | 6 | 66.96718 | 32.58811 | 147 | 7 | 66.96706 | 32.58730 |
| 148 | 8 | 66.96693 | 32.58612 | 149 | 9 | 66.96672 | 32.58421 | 150 | 10 | 66.96652 | 32.58287 |
| 151 | 11 | 66.96663 | 32.58135 | 152 | 12 | 66.96700 | 32.58004 | 153 | 13 | 66.96718 | 32.57923 |
| 154 | 14 | 66.96812 | 32.57867 | 155 | 15 | 66.96903 | 32.57897 | 156 | 16 | 66.96991 | 32.57923 |
| 157 | 17 | 66.97091 | 32.58002 | 158 | 18 | 66.97164 | 32.58054 | 159 | 19 | 66.97170 | 32.58119 |
| 160 | 20 | 66.97158 | 32.58181 | 161 | 21 | 66.97169 | 32.58235 | 162 | 22 | 66.97213 | 32.58269 |
| 163 | 23 | 66.97254 | 32.58304 | 164 | 24 | 66.97203 | 32.58419 | 165 | 25 | 66.97115 | 32.58539 |
| 166 | 26 | 66.97033 | 32.58668 | 167 | 27 | 66.96954 | 32.58854 | 168 | 28 | 66.96865 | 32.59038 |
| 169 | 29 | 66.96831 | 32.59117 | 170 | 1 | 66.98840 | 32.56545 | 171 | 2 | 66.98905 | 32.56452 |
| 172 | 3 | 66.98997 | 32.56353 | 173 | 4 | 66.99055 | 32.56276 | 174 | 5 | 66.99111 | 32.56251 |
| 175 | 6 | 66.99131 | 32.56221 | 176 | 7 | 66.99208 | 32.56242 | 177 | 8 | 66.99269 | 32.56216 |
| 178 | 9 | 66.99325 | 32.56189 | 179 | 10 | 66.99362 | 32.56216 | 180 | 11 | 66.99433 | 32.56238 |
| 181 | 12 | 66.99470 | 32.56201 | 182 | 13 | 66.99525 | 32.56095 | 183 | 14 | 66.99801 | 32.56275 |
| 184 | 15 | 66.99710 | 32.56363 | 185 | 16 | 66.99689 | 32.56411 | 186 | 17 | 66.99659 | 32.56471 |
| 187 | 18 | 66.99645 | 32.56533 | 188 | 19 | 66.99633 | 32.56589 | 189 | 20 | 66.99602 | 32.56712 |
| 190 | 21 | 66.99538 | 32.56786 | 191 | 22 | 66.99472 | 32.56876 | 192 | 23 | 66.99457 | 32.56923 |
| 193 | 24 | 66.99447 | 32.56994 | 194 | 25 | 66.99387 | 32.57077 | 195 | 26 | 66.99288 | 32.57102 |
| 196 | 27 | 66.99209 | 32.57083 | 197 | 28 | 66.99163 | 32.57063 | 198 | 29 | 66.99143 | 32.57092 |
| 199 | 30 | 66.99119 | 32.57129 | 200 | 31 | 66.99042 | 32.57159 | 201 | 32 | 66.98991 | 32.57225 |
| 202 | 33 | 66.98925 | 32.57306 | 203 | 34 | 66.98907 | 32.57397 | 204 | 35 | 66.98868 | 32.57478 |
| 205 | 36 | 66.98817 | 32.57488 | 206 | 37 | 66.98758 | 32.57461 | 207 | 38 | 66.98689 | 32.57556 |
| 208 | 39 | 66.98610 | 32.57618 | 209 | 40 | 66.98532 | 32.57696 | 210 | 41 | 66.98473 | 32.57767 |
| 211 | 42 | 66.98414 | 32.57831 | 212 | 43 | 66.98335 | 32.57893 | 213 | 44 | 66.98258 | 32.57957 |
| 214 | 45 | 66.98184 | 32.58005 | 215 | 46 | 66.98183 | 32.57821 | 216 | 47 | 66.98227 | 32.57626 |
| 217 | 48 | 66.98263 | 32.57541 | 218 | 49 | 66.98312 | 32.57436 | 219 | 50 | 66.98347 | 32.57360 |
| 220 | 51 | 66.98366 | 32.57323 | 221 | 52 | 66.98437 | 32.57195 | 222 | 53 | 66.98544 | 32.57017 |
| 223 | 54 | 66.98629 | 32.56882 | 224 | 55 | 66.98699 | 32.56773 | 225 | 56 | 66.98785 | 32.56628 |
| 226 | 57 | 66.98840 | 32.56545 | 227 | 1 | 66.99741 | 32.60621 | 228 | 2 | 66.99750 | 32.60617 |
| 229 | 3 | 66.99756 | 32.60612 | 230 | 4 | 66.99830 | 32.60489 | 231 | 5 | 67.01052 | 32.62065 |
| 232 | 6 | 67.00964 | 32.62044 | 233 | 7 | 67.00907 | 32.62097 | 234 | 8 | 67.00865 | 32.62196 |
| 235 | 9 | 67.00844 | 32.62285 | 236 | 10 | 67.00837 | 32.62375 | 237 | 11 | 67.00758 | 32.62414 |
| 238 | 12 | 67.00649 | 32.62352 | 239 | 13 | 67.00619 | 32.62248 | 240 | 14 | 67.00596 | 32.62171 |
| 241 | 15 | 67.00572 | 32.62121 | 242 | 16 | 67.00541 | 32.62103 | 243 | 17 | 67.00474 | 32.62137 |
| 244 | 18 | 67.00403 | 32.62199 | 245 | 19 | 67.00362 | 32.62251 | 246 | 20 | 67.00278 | 32.62354 |
| 247 | 21 | 67.00220 | 32.62425 | 248 | 22 | 67.00176 | 32.62478 | 249 | 23 | 67.00131 | 32.62532 |
| 250 | 24 | 67.00014 | 32.62539 | 251 | 25 | 66.99869 | 32.62455 | 252 | 26 | 66.99758 | 32.62560 |
| 253 | 27 | 66.99687 | 32.62584 | 254 | 28 | 66.99277 | 32.62242 | 255 | 29 | 66.99286 | 32.61969 |
| 256 | 30 | 66.99297 | 32.61767 | 257 | 31 | 66.99382 | 32.61517 | 258 | 32 | 66.99408 | 32.61357 |
| 259 | 33 | 66.99467 | 32.61198 | 260 | 34 | 66.99522 | 32.61097 | 261 | 35 | 66.99529 | 32.61084 |
| 262 | 36 | 66.99553 | 32.61027 | 263 | 37 | 66.99665 | 32.60761 | 264 | 38 | 66.99741 | 32.60621 |
| 265 | 1 | 67.05559 | 32.56657 | 266 | 2 | 67.05613 | 32.56704 | 267 | 3 | 67.05647 | 32.56807 |
| 268 | 4 | 67.05669 | 32.57005 | 269 | 5 | 67.05685 | 32.57154 | 270 | 6 | 67.05601 | 32.57196 |
| 271 | 7 | 67.05536 | 32.57266 | 272 | 8 | 67.05474 | 32.57344 | 273 | 9 | 67.05394 | 32.57456 |
| 274 | 10 | 67.05311 | 32.57570 | 275 | 11 | 67.05223 | 32.57680 | 276 | 12 | 67.05168 | 32.57823 |
| 277 | 13 | 67.05108 | 32.57959 | 278 | 14 | 67.05087 | 32.58131 | 279 | 15 | 67.05063 | 32.58251 |
| 280 | 16 | 67.05021 | 32.58416 | 281 | 17 | 67.04974 | 32.58542 | 282 | 18 | 67.04971 | 32.58616 |
| 283 | 19 | 67.04905 | 32.58661 | 284 | 20 | 67.04861 | 32.58535 | 285 | 21 | 67.04849 | 32.58435 |
| 286 | 22 | 67.04849 | 32.58285 | 287 | 23 | 67.04864 | 32.58163 | 288 | 24 | 67.04911 | 32.57994 |
| 289 | 25 | 67.04896 | 32.57815 | 290 | 26 | 67.04914 | 32.57725 | 291 | 27 | 67.04951 | 32.57619 |
| 292 | 28 | 67.05101 | 32.57397 | 293 | 29 | 67.05184 | 32.57272 | 294 | 30 | 67.05283 | 32.57167 |
| 295 | 31 | 67.05365 | 32.57037 | 296 | 32 | 67.05455 | 32.56930 | 297 | 33 | 67.05507 | 32.56847 |
| 298 | 34 | 67.05539 | 32.56760 | 299 | 35 | 67.05559 | 32.56657 | 300 | 1 | 66.98097 | 32.65060 |
| 301 | 2 | 66.98187 | 32.65065 | 302 | 3 | 66.98376 | 32.65111 | 303 | 4 | 66.98366 | 32.65180 |
| 304 | 5 | 66.98345 | 32.65275 | 305 | 6 | 66.98309 | 32.65424 | 306 | 7 | 66.98272 | 32.65652 |
| 307 | 8 | 66.98260 | 32.65846 | 308 | 9 | 66.98228 | 32.66060 | 309 | 10 | 66.98221 | 32.66203 |
| 310 | 11 | 66.98245 | 32.66314 | 311 | 12 | 66.98279 | 32.66390 | 312 | 13 | 66.98349 | 32.66390 |
| 313 | 14 | 66.98415 | 32.66337 | 314 | 15 | 66.98472 | 32.66237 | 315 | 16 | 66.98525 | 32.66084 |
| 316 | 17 | 66.98570 | 32.65931 | 317 | 18 | 66.98634 | 32.65739 | 318 | 19 | 66.98689 | 32.65609 |
| 319 | 20 | 66.98740 | 32.65473 | 320 | 21 | 66.98764 | 32.65339 | 321 | 22 | 66.98777 | 32.65208 |
| 322 | 23 | 66.98900 | 32.65238 | 323 | 24 | 66.98891 | 32.65334 | 324 | 25 | 66.98861 | 32.65532 |
| 325 | 26 | 66.98820 | 32.65657 | 326 | 27 | 66.98770 | 32.65740 | 327 | 28 | 66.98739 | 32.65821 |
| 328 | 29 | 66.98703 | 32.65883 | 329 | 30 | 66.98674 | 32.65935 | 330 | 31 | 66.98638 | 32.66041 |
| 331 | 32 | 66.98590 | 32.66161 | 332 | 33 | 66.98516 | 32.66339 | 333 | 34 | 66.98502 | 32.66446 |
| 334 | 35 | 66.98487 | 32.66635 | 335 | 36 | 66.98481 | 32.66741 | 336 | 37 | 66.98451 | 32.66874 |
| 337 | 38 | 66.98443 | 32.66977 | 338 | 39 | 66.98413 | 32.67078 | 339 | 40 | 66.98342 | 32.67208 |
| 340 | 41 | 66.98304 | 32.67261 | 341 | 42 | 66.98239 | 32.67282 | 342 | 43 | 66.98174 | 32.67225 |
| 343 | 44 | 66.98171 | 32.67163 | 344 | 45 | 66.98162 | 32.67095 | 345 | 46 | 66.98180 | 32.67010 |
| 346 | 47 | 66.98194 | 32.66886 | 347 | 48 | 66.98197 | 32.66824 | 348 | 49 | 66.98162 | 32.66741 |
| 349 | 50 | 66.98138 | 32.66682 | 350 | 51 | 66.98106 | 32.66629 | 351 | 52 | 66.98073 | 32.66540 |
| 352 | 53 | 66.98020 | 32.66502 | 353 | 54 | 66.97921 | 32.65904 | 354 | 55 | 66.97974 | 32.65842 |
| 355 | 56 | 66.98037 | 32.65764 | 356 | 57 | 66.98070 | 32.65711 | 357 | 58 | 66.98056 | 32.65615 |
| 358 | 59 | 66.98026 | 32.65552 | 359 | 60 | 66.97983 | 32.65517 | 360 | 61 | 66.97983 | 32.65447 |
| 361 | 62 | 66.97994 | 32.65427 | 362 | 63 | 66.98009 | 32.65403 | 363 | 64 | 66.98074 | 32.65369 |
| 364 | 65 | 66.98097 | 32.65315 | 365 | 66 | 66.98106 | 32.65240 | 366 | 67 | 66.98105 | 32.65189 |
| 367 | 68 | 66.98097 | 32.65113 | 368 | 69 | 66.98097 | 32.65060 | 369 | 1 | 66.99107 | 32.62800 |
| 370 | 2 | 66.99181 | 32.62812 | 371 | 3 | 66.99143 | 32.62889 | 372 | 4 | 66.99113 | 32.63025 |
| 373 | 5 | 66.99090 | 32.63103 | 374 | 6 | 66.99072 | 32.63185 | 375 | 7 | 66.99067 | 32.63310 |
| 376 | 8 | 66.99105 | 32.63364 | 377 | 9 | 66.99145 | 32.63433 | 378 | 10 | 66.99157 | 32.63513 |
| 379 | 11 | 66.99181 | 32.63640 | 380 | 12 | 66.99184 | 32.63767 | 381 | 13 | 66.99151 | 32.63899 |
| 382 | 14 | 66.99098 | 32.63959 | 383 | 15 | 66.99048 | 32.64025 | 384 | 16 | 66.99033 | 32.64102 |
| 385 | 17 | 66.99025 | 32.64188 | 386 | 18 | 66.99015 | 32.64276 | 387 | 19 | 66.99015 | 32.64334 |
| 388 | 20 | 66.98989 | 32.64450 | 389 | 21 | 66.98986 | 32.64570 | 390 | 22 | 66.98972 | 32.64637 |
| 391 | 23 | 66.98958 | 32.64707 | 392 | 24 | 66.98947 | 32.64804 | 393 | 25 | 66.98942 | 32.64850 |
| 394 | 26 | 66.98932 | 32.64923 | 395 | 27 | 66.98921 | 32.64983 | 396 | 28 | 66.98921 | 32.65050 |
| 397 | 29 | 66.98913 | 32.65105 | 398 | 30 | 66.98905 | 32.65164 | 399 | 31 | 66.98900 | 32.65238 |
| 400 | 32 | 66.98777 | 32.65208 | 401 | 33 | 66.98755 | 32.65122 | 402 | 34 | 66.98725 | 32.65052 |
| 403 | 35 | 66.98713 | 32.64963 | 404 | 36 | 66.98657 | 32.64827 | 405 | 37 | 66.98557 | 32.64727 |
| 406 | 38 | 66.98477 | 32.64782 | 407 | 39 | 66.98440 | 32.64882 | 408 | 40 | 66.98408 | 32.64990 |
| 409 | 41 | 66.98385 | 32.65054 | 410 | 42 | 66.98376 | 32.65111 | 411 | 43 | 66.98167 | 32.65060 |
| 412 | 44 | 66.98185 | 32.65025 | 413 | 45 | 66.98194 | 32.64945 | 414 | 46 | 66.98195 | 32.64723 |
| 415 | 47 | 66.98202 | 32.64602 | 416 | 48 | 66.98202 | 32.64462 | 417 | 49 | 66.98229 | 32.64356 |
| 418 | 50 | 66.98252 | 32.64287 | 419 | 51 | 66.98285 | 32.64241 | 420 | 52 | 66.98361 | 32.64180 |
| 421 | 53 | 66.98483 | 32.63819 | 422 | 54 | 66.98583 | 32.63701 | 423 | 55 | 66.98638 | 32.63634 |
| 424 | 56 | 66.98686 | 32.63538 | 425 | 57 | 66.98660 | 32.63433 | 426 | 58 | 66.98696 | 32.63290 |
| 427 | 59 | 66.98744 | 32.63280 | 428 | 60 | 66.98888 | 32.63248 | 429 | 61 | 66.98959 | 32.63125 |
| 430 | 62 | 66.98995 | 32.63018 | 431 | 63 | 66.99107 | 32.62800 | 432 | 1 | 67.01421 | 32.66103 |
| 433 | 2 | 67.01336 | 32.66049 | 434 | 3 | 67.01339 | 32.66028 | 435 | 4 | 67.01280 | 32.65922 |
| 436 | 5 | 67.01182 | 32.65757 | 437 | 6 | 67.01016 | 32.65658 | 438 | 7 | 67.01033 | 32.65576 |
| 439 | 8 | 67.01049 | 32.65512 | 440 | 9 | 67.01055 | 32.65385 | 441 | 10 | 67.01044 | 32.65291 |
| 442 | 11 | 67.01019 | 32.65202 | 443 | 12 | 67.00997 | 32.65133 | 444 | 13 | 67.00955 | 32.65110 |
| 445 | 14 | 67.00926 | 32.65120 | 446 | 15 | 67.00896 | 32.65158 | 447 | 16 | 67.00880 | 32.65220 |
| 448 | 17 | 67.00864 | 32.65308 | 449 | 18 | 67.00838 | 32.65339 | 450 | 19 | 67.00787 | 32.65405 |
| 451 | 20 | 67.00748 | 32.65462 | 452 | 21 | 67.00720 | 32.65554 | 453 | 22 | 67.00686 | 32.65687 |
| 454 | 23 | 67.00701 | 32.65821 | 455 | 24 | 67.00685 | 32.66031 | 456 | 25 | 67.00663 | 32.66219 |
| 457 | 26 | 67.00660 | 32.66420 | 458 | 27 | 67.00606 | 32.66603 | 459 | 28 | 67.00531 | 32.66752 |
| 460 | 29 | 67.00321 | 32.66965 | 461 | 30 | 67.00181 | 32.67021 | 462 | 31 | 67.00176 | 32.66981 |
| 463 | 32 | 67.00123 | 32.66738 | 464 | 33 | 67.00033 | 32.66407 | 465 | 34 | 67.00077 | 32.66324 |
| 466 | 35 | 67.00135 | 32.66197 | 467 | 36 | 67.00178 | 32.66098 | 468 | 37 | 67.00215 | 32.65938 |
| 469 | 38 | 67.00243 | 32.65777 | 470 | 39 | 67.00268 | 32.65750 | 471 | 40 | 67.00287 | 32.65587 |
| 472 | 41 | 67.00387 | 32.65121 | 473 | 42 | 67.00483 | 32.64860 | 474 | 43 | 67.00562 | 32.64661 |
| 475 | 44 | 67.00687 | 32.64424 | 476 | 45 | 67.00692 | 32.64375 | 477 | 46 | 67.00964 | 32.64254 |
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| 484 | 1 | 67.00933 | 32.53330 | 485 | 2 | 67.00924 | 32.53350 | 486 | 3 | 67.00923 | 32.53350 |
| 487 | 4 | 67.00933 | 32.53330 | 488 | 1 | 67.00886 | 32.54336 | 489 | 2 | 67.00886 | 32.54336 |
| 490 | 3 | 67.00884 | 32.54352 | 491 | 4 | 67.00836 | 32.54430 | 492 | 5 | 67.00864 | 32.54384 |
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| 499 | 5 | 66.99556 | 32.56015 | 500 | 6 | 66.99582 | 32.55953 | 501 | 7 | 66.99590 | 32.55918 |
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| 505 | 11 | 66.99719 | 32.55812 | 506 | 12 | 66.99742 | 32.55784 | 507 | 13 | 66.99778 | 32.55701 |
| 508 | 14 | 66.99838 | 32.55533 | 509 | 15 | 66.99904 | 32.55428 | 510 | 16 | 66.99962 | 32.55257 |
| 511 | 17 | 67.00031 | 32.55134 | 512 | 18 | 67.00044 | 32.55068 | 513 | 19 | 67.00054 | 32.55021 |
| 514 | 20 | 67.00067 | 32.55010 | 515 | 21 | 67.00094 | 32.54987 | 516 | 22 | 67.00118 | 32.54971 |
| 517 | 23 | 67.00151 | 32.54958 | 518 | 24 | 67.00177 | 32.54940 | 519 | 25 | 67.00189 | 32.54913 |
| 520 | 26 | 67.00192 | 32.54895 | 521 | 27 | 67.00210 | 32.54844 | 522 | 28 | 67.00219 | 32.54835 |
| 523 | 29 | 67.00245 | 32.54815 | 524 | 30 | 67.00264 | 32.54792 | 525 | 31 | 67.00270 | 32.54724 |
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| 532 | 38 | 67.00837 | 32.53537 | 533 | 39 | 67.00851 | 32.53507 | 534 | 40 | 67.00885 | 32.53430 |
| 535 | 41 | 67.00924 | 32.53350 | 536 | 42 | 67.00974 | 32.53306 | 537 | 43 | 67.01074 | 32.53196 |
| 538 | 44 | 67.01142 | 32.53085 | 539 | 45 | 67.01205 | 32.52959 | 540 | 46 | 67.01283 | 32.52777 |
| 541 | 47 | 67.01360 | 32.52648 | 542 | 48 | 67.01393 | 32.52577 | 543 | 49 | 67.01434 | 32.52494 |
| 544 | 50 | 67.01478 | 32.52417 | 545 | 51 | 67.01528 | 32.52346 | 546 | 52 | 67.01566 | 32.52255 |
| 547 | 53 | 67.01596 | 32.52179 | 548 | 54 | 67.01655 | 32.52132 | 549 | 55 | 67.01689 | 32.52081 |
| 550 | 56 | 67.01759 | 32.52032 | 551 | 57 | 67.01783 | 32.52057 | 552 | 58 | 67.01777 | 32.52104 |
| 553 | 59 | 67.01775 | 32.52142 | 554 | 60 | 67.01751 | 32.52262 | 555 | 61 | 67.01749 | 32.52309 |
| 556 | 62 | 67.01742 | 32.52368 | 557 | 63 | 67.01722 | 32.52432 | 558 | 64 | 67.01711 | 32.52523 |
| 559 | 65 | 67.01688 | 32.52608 | 560 | 66 | 67.01663 | 32.52712 | 561 | 67 | 67.01615 | 32.52789 |
| 562 | 68 | 67.01576 | 32.52863 | 563 | 69 | 67.01491 | 32.53050 | 564 | 70 | 67.01452 | 32.53136 |
| 565 | 71 | 67.01408 | 32.53234 | 566 | 72 | 67.01374 | 32.53328 | 567 | 73 | 67.01320 | 32.53438 |
| 568 | 74 | 67.01258 | 32.53536 | 569 | 75 | 67.01229 | 32.53600 | 570 | 76 | 67.01158 | 32.53750 |
| 571 | 77 | 67.01112 | 32.53860 | 572 | 78 | 67.01079 | 32.53954 | 573 | 79 | 67.01037 | 32.54073 |
| 574 | 80 | 67.00986 | 32.54145 | 575 | 81 | 67.00937 | 32.54172 | 576 | 82 | 67.00895 | 32.54287 |
| 577 | 83 | 67.00904 | 32.54196 | 578 | 84 | 67.00897 | 32.54159 | 579 | 85 | 67.00877 | 32.54105 |
| 580 | 86 | 67.00849 | 32.54070 | 581 | 87 | 67.00802 | 32.54052 | 582 | 88 | 67.00775 | 32.54090 |
| 583 | 89 | 67.00752 | 32.54136 | 584 | 90 | 67.00741 | 32.54173 | 585 | 91 | 67.00737 | 32.54208 |
| 586 | 92 | 67.00720 | 32.54260 | 587 | 93 | 67.00713 | 32.54311 | 588 | 94 | 67.00701 | 32.54352 |
| 589 | 95 | 67.00698 | 32.54376 | 590 | 96 | 67.00695 | 32.54413 | 591 | 97 | 67.00692 | 32.54449 |
| 592 | 98 | 67.00691 | 32.54481 | 593 | 99 | 67.00698 | 32.54499 | 594 | 100 | 67.00710 | 32.54523 |
| 595 | 101 | 67.00723 | 32.54536 | 596 | 102 | 67.00733 | 32.54539 | 597 | 103 | 67.00745 | 32.54540 |
| 598 | 104 | 67.00768 | 32.54547 | 599 | 105 | 67.00788 | 32.54468 | 600 | 106 | 67.00812 | 32.54461 |
| 601 | 107 | 67.00781 | 32.54503 | 602 | 108 | 67.00755 | 32.54594 | 603 | 109 | 67.00681 | 32.54602 |
| 604 | 110 | 67.00640 | 32.54700 | 605 | 111 | 67.00602 | 32.54796 | 606 | 112 | 67.00545 | 32.54902 |
| 607 | 113 | 67.00494 | 32.55013 | 608 | 114 | 67.00415 | 32.55157 | 609 | 115 | 67.00338 | 32.55274 |
| 610 | 116 | 67.00258 | 32.55335 | 611 | 117 | 67.00218 | 32.55404 | 612 | 118 | 67.00190 | 32.55511 |
| 613 | 119 | 67.00161 | 32.55591 | 614 | 120 | 67.00043 | 32.55785 | 615 | 121 | 66.99969 | 32.55927 |
| 616 | 122 | 66.99903 | 32.56065 | 617 | 123 | 66.99903 | 32.56159 | 618 | 124 | 66.99848 | 32.56216 |
| 619 | 125 | 67.00376 | 32.55043 | 620 | 126 | 67.00398 | 32.55008 | 621 | 127 | 67.00431 | 32.54943 |
| 622 | 128 | 67.00456 | 32.54880 | 623 | 129 | 67.00479 | 32.54820 | 624 | 130 | 67.00489 | 32.54768 |
| 625 | 131 | 67.00484 | 32.54720 | 626 | 132 | 67.00475 | 32.54685 | 627 | 133 | 67.00468 | 32.54675 |
| 628 | 134 | 67.00458 | 32.54640 | 629 | 135 | 67.00446 | 32.54618 | 630 | 136 | 67.00428 | 32.54611 |
| 631 | 137 | 67.00409 | 32.54614 | 632 | 138 | 67.00392 | 32.54626 | 633 | 139 | 67.00373 | 32.54653 |
| 634 | 140 | 67.00355 | 32.54685 | 635 | 141 | 67.00338 | 32.54714 | 636 | 142 | 67.00324 | 32.54754 |
| 637 | 143 | 67.00313 | 32.54792 | 638 | 144 | 67.00314 | 32.54824 | 639 | 145 | 67.00271 | 32.54905 |
| 640 | 146 | 67.00271 | 32.54966 | 641 | 147 | 67.00281 | 32.55011 | 642 | 148 | 67.00311 | 32.55048 |
| 643 | 149 | 67.00343 | 32.55063 | 644 | 150 | 67.00376 | 32.55043 | 645 | 1 | 67.02286 | 32.57739 |
| 646 | 2 | 67.02409 | 32.57542 | 647 | 3 | 67.03217 | 32.58310 | 648 | 4 | 67.03162 | 32.58465 |
| 649 | 5 | 67.03143 | 32.58516 | 650 | 6 | 67.03071 | 32.58637 | 651 | 7 | 67.03011 | 32.58726 |
| 652 | 8 | 67.02965 | 32.58794 | 653 | 9 | 67.02926 | 32.58862 | 654 | 10 | 67.02897 | 32.58926 |
| 655 | 11 | 67.02807 | 32.59097 | 656 | 12 | 67.02756 | 32.59176 | 657 | 13 | 67.02695 | 32.59278 |
| 658 | 14 | 67.02646 | 32.59356 | 659 | 15 | 67.02612 | 32.59424 | 660 | 16 | 67.02544 | 32.59534 |
| 661 | 17 | 67.02422 | 32.59793 | 662 | 18 | 67.02102 | 32.59489 | 663 | 19 | 67.02152 | 32.59449 |
| 664 | 20 | 67.02201 | 32.59408 | 665 | 21 | 67.02250 | 32.59350 | 666 | 22 | 67.02265 | 32.59266 |
| 667 | 23 | 67.02277 | 32.59175 | 668 | 24 | 67.02241 | 32.59080 | 669 | 25 | 67.02156 | 32.59026 |
| 670 | 26 | 67.02066 | 32.59085 | 671 | 27 | 67.01994 | 32.59233 | 672 | 28 | 67.01664 | 32.58884 |
| 673 | 29 | 67.01843 | 32.58776 | 674 | 30 | 67.01923 | 32.58606 | 675 | 31 | 67.02019 | 32.58415 |
| 676 | 32 | 67.02045 | 32.58207 | 677 | 33 | 67.02157 | 32.57985 | 678 | 34 | 67.02194 | 32.57916 |
| 679 | 35 | 67.02216 | 32.57860 | 680 | 36 | 67.02286 | 32.57739 | 681 | 1 | 67.04381 | 32.54527 |
| 682 | 2 | 67.04490 | 32.54527 | 683 | 3 | 67.04539 | 32.54612 | 684 | 4 | 67.04539 | 32.54669 |
| 685 | 5 | 67.04494 | 32.54822 | 686 | 6 | 67.04490 | 32.54951 | 687 | 7 | 67.04392 | 32.55111 |
| 688 | 8 | 67.04339 | 32.55253 | 689 | 9 | 67.04296 | 32.55376 | 690 | 10 | 67.04272 | 32.55485 |
| 691 | 11 | 67.04211 | 32.55570 | 692 | 12 | 67.04151 | 32.55631 | 693 | 13 | 67.04147 | 32.55643 |
| 694 | 14 | 67.04147 | 32.55643 | 695 | 15 | 67.04034 | 32.55897 | 696 | 16 | 67.04012 | 32.56061 |
| 697 | 17 | 67.03979 | 32.56252 | 698 | 18 | 67.03979 | 32.56252 | 699 | 19 | 67.03949 | 32.56381 |
| 700 | 20 | 67.03965 | 32.56658 | 701 | 21 | 67.03987 | 32.56729 | 702 | 22 | 67.03987 | 32.56729 |
| 703 | 23 | 67.03996 | 32.56760 | 704 | 24 | 67.03848 | 32.56987 | 705 | 25 | 67.03731 | 32.57296 |
| 706 | 26 | 67.03678 | 32.57460 | 707 | 27 | 67.03594 | 32.57694 | 708 | 28 | 67.03567 | 32.57597 |
| 709 | 29 | 67.03571 | 32.57522 | 710 | 30 | 67.03562 | 32.57477 | 711 | 31 | 67.03512 | 32.57482 |
| 712 | 32 | 67.03449 | 32.57544 | 713 | 33 | 67.03396 | 32.57625 | 714 | 34 | 67.03349 | 32.57723 |
| 715 | 35 | 67.03270 | 32.57908 | 716 | 36 | 67.03234 | 32.58082 | 717 | 37 | 67.03238 | 32.58214 |
| 718 | 38 | 67.03217 | 32.58310 | 719 | 39 | 67.02409 | 32.57542 | 720 | 40 | 67.02501 | 32.57344 |
| 721 | 41 | 67.02606 | 32.57219 | 722 | 42 | 67.02674 | 32.57118 | 723 | 43 | 67.02763 | 32.57007 |
| 724 | 44 | 67.02852 | 32.56887 | 725 | 45 | 67.02935 | 32.56773 | 726 | 46 | 67.03003 | 32.56724 |
| 727 | 47 | 67.03169 | 32.56598 | 728 | 48 | 67.03280 | 32.56465 | 729 | 49 | 67.03338 | 32.56309 |
| 730 | 50 | 67.03422 | 32.56118 | 731 | 51 | 67.03468 | 32.55949 | 732 | 52 | 67.03498 | 32.55795 |
| 733 | 53 | 67.03557 | 32.55687 | 734 | 54 | 67.03585 | 32.55579 | 735 | 55 | 67.03637 | 32.55432 |
| 736 | 56 | 67.03602 | 32.55387 | 737 | 57 | 67.03581 | 32.55396 | 738 | 58 | 67.03569 | 32.55348 |
| 739 | 59 | 67.03504 | 32.55281 | 740 | 60 | 67.03666 | 32.55073 | 741 | 61 | 67.03726 | 32.54988 |
| 742 | 62 | 67.03823 | 32.54976 | 743 | 63 | 67.03896 | 32.54976 | 744 | 64 | 67.03981 | 32.54873 |
| 745 | 65 | 67.04066 | 32.54770 | 746 | 66 | 67.04151 | 32.54673 | 747 | 67 | 67.04260 | 32.54600 |
| 748 | 68 | 67.04381 | 32.54527 | 749 | 1 | 67.02867 | 32.51188 | 750 | 2 | 67.02816 | 32.51178 |
| 751 | 3 | 67.02774 | 32.51082 | 752 | 4 | 67.02708 | 32.51004 | 753 | 5 | 67.02646 | 32.51004 |
| 754 | 6 | 67.02586 | 32.50998 | 755 | 7 | 67.02512 | 32.51087 | 756 | 8 | 67.02460 | 32.51164 |
| 757 | 9 | 67.02396 | 32.51245 | 758 | 10 | 67.02327 | 32.51309 | 759 | 11 | 67.02286 | 32.51275 |
| 760 | 12 | 67.02286 | 32.51176 | 761 | 13 | 67.02307 | 32.51071 | 762 | 14 | 67.02333 | 32.50964 |
| 763 | 15 | 67.02363 | 32.50826 | 764 | 16 | 67.02361 | 32.50727 | 765 | 17 | 67.02364 | 32.50589 |
| 766 | 18 | 67.02367 | 32.50460 | 767 | 19 | 67.02376 | 32.50359 | 768 | 20 | 67.02405 | 32.50242 |
| 769 | 21 | 67.02436 | 32.50149 | 770 | 22 | 67.02448 | 32.50042 | 771 | 23 | 67.02439 | 32.49917 |
| 772 | 24 | 67.02437 | 32.49888 | 773 | 25 | 67.02432 | 32.49757 | 774 | 26 | 67.02432 | 32.49637 |
| 775 | 27 | 67.02433 | 32.49557 | 776 | 28 | 67.02453 | 32.49446 | 777 | 29 | 67.02486 | 32.49381 |
| 778 | 30 | 67.02520 | 32.49266 | 779 | 31 | 67.02567 | 32.49096 | 780 | 32 | 67.02612 | 32.48919 |
| 781 | 33 | 67.02651 | 32.48784 | 782 | 34 | 67.02684 | 32.48634 | 783 | 35 | 67.02714 | 32.48473 |
| 784 | 36 | 67.02741 | 32.48350 | 785 | 37 | 67.02758 | 32.48204 | 786 | 38 | 67.02758 | 32.48063 |
| 787 | 39 | 67.02750 | 32.47945 | 788 | 40 | 67.02951 | 32.47950 | 789 | 41 | 67.02932 | 32.48135 |
| 790 | 42 | 67.02908 | 32.48258 | 791 | 43 | 67.02887 | 32.48480 | 792 | 44 | 67.02842 | 32.48576 |
| 793 | 45 | 67.02822 | 32.48673 | 794 | 46 | 67.02779 | 32.48836 | 795 | 47 | 67.02742 | 32.49021 |
| 796 | 48 | 67.02693 | 32.49244 | 797 | 49 | 67.02665 | 32.49438 | 798 | 50 | 67.02587 | 32.49655 |
| 799 | 51 | 67.02554 | 32.49918 | 800 | 52 | 67.02504 | 32.50063 | 801 | 53 | 67.02470 | 32.50294 |
| 802 | 54 | 67.02463 | 32.50373 | 803 | 55 | 67.02449 | 32.50480 | 804 | 56 | 67.02483 | 32.50611 |
| 805 | 57 | 67.02504 | 32.50672 | 806 | 58 | 67.02573 | 32.50790 | 807 | 59 | 67.02646 | 32.50855 |
| 808 | 60 | 67.02724 | 32.50913 | 809 | 61 | 67.02815 | 32.50994 | 810 | 62 | 67.02840 | 32.51068 |
| 811 | 63 | 67.02840 | 32.51065 | 812 | 64 | 67.02867 | 32.51188 | 813 | 1 | 66.97853 | 32.58350 |
| 814 | 2 | 66.97765 | 32.58521 | 815 | 3 | 66.97710 | 32.58699 | 816 | 4 | 66.97636 | 32.58844 |
| 817 | 5 | 66.97565 | 32.58951 | 818 | 6 | 66.97535 | 32.58998 | 819 | 7 | 66.97488 | 32.59066 |
| 820 | 8 | 66.97442 | 32.59129 | 821 | 9 | 66.97374 | 32.59122 | 822 | 10 | 66.97280 | 32.59213 |
| 823 | 11 | 66.97195 | 32.59277 | 824 | 12 | 66.97086 | 32.59365 | 825 | 13 | 66.97017 | 32.59451 |
| 826 | 14 | 66.96922 | 32.59554 | 827 | 15 | 66.96824 | 32.59646 | 828 | 16 | 66.96706 | 32.59642 |
| 829 | 17 | 66.96674 | 32.59448 | 830 | 18 | 66.96769 | 32.59320 | 831 | 19 | 66.96831 | 32.59117 |
| 832 | 20 | 66.96882 | 32.59003 | 833 | 21 | 66.96954 | 32.58854 | 834 | 22 | 66.97033 | 32.58668 |
| 835 | 23 | 66.97115 | 32.58539 | 836 | 24 | 66.97203 | 32.58419 | 837 | 25 | 66.97334 | 32.58237 |
| 838 | 26 | 66.97474 | 32.58091 | 839 | 27 | 66.97614 | 32.57970 | 840 | 28 | 66.97750 | 32.57862 |
| 841 | 29 | 66.97883 | 32.57755 | 842 | 30 | 66.98001 | 32.57680 | 843 | 31 | 66.98033 | 32.57717 |
| 844 | 32 | 66.98042 | 32.57815 | 845 | 33 | 66.98022 | 32.57905 | 846 | 34 | 66.97975 | 32.58033 |
| 847 | 35 | 66.97916 | 32.58198 | 848 | 36 | 66.97853 | 32.58350 | 849 | 1 | 67.02157 | 32.57985 |
| 850 | 2 | 67.02154 | 32.57990 | 851 | 3 | 67.02045 | 32.58207 | 852 | 4 | 67.02019 | 32.58415 |
| 853 | 5 | 67.01928 | 32.58596 | 854 | 6 | 67.01843 | 32.58776 | 855 | 7 | 67.01792 | 32.58807 |
| 856 | 8 | 67.01727 | 32.58847 | 857 | 9 | 67.01664 | 32.58884 | 858 | 10 | 67.01675 | 32.58770 |
| 859 | 11 | 67.01684 | 32.58646 | 860 | 12 | 67.01711 | 32.58583 | 861 | 13 | 67.01758 | 32.58473 |
| 862 | 14 | 67.01794 | 32.58411 | 863 | 15 | 67.01844 | 32.58309 | 864 | 16 | 67.01876 | 32.58232 |
| 865 | 17 | 67.01919 | 32.58163 | 866 | 18 | 67.01961 | 32.58113 | 867 | 19 | 67.02023 | 32.58055 |
| 868 | 20 | 67.02098 | 32.58014 | 869 | 21 | 67.02157 | 32.57985 |  |  |  |  |