Stage 2

1. The benchmark histogram

|  |  |  |  |
| --- | --- | --- | --- |
| Intensity | RED | GREEN | BLUE |
| 0 | 0.0 | 0.0 | 0.0 |
| 1 | 0.0 | 4.2735042735042735E-5 | 4.2735042735042735E-5 |
| 2 | 0.0 | 1.8162393162393162E-4 | 1.8162393162393162E-4 |
| 3 | 1.0683760683760684E-5 | 4.914529914529915E-4 | 4.914529914529915E-4 |
| 4 | 7.478632478632479E-5 | 0.0016132478632478633 | 0.0016132478632478633 |
| 5 | 3.418803418803419E-4 | 0.004754273504273505 | 0.004754273504273505 |
| 6 | 0.0011431623931623931 | 0.01152777777777778 | 0.01152777777777778 |
| 7 | 0.00360042735042735 | 0.0215491452991453 | 0.0215491452991453 |
| 8 | 0.0077777777777777776 | 0.03330128205128205 | 0.03330128205128205 |
| 9 | 0.014273504273504274 | 0.04544871794871795 | 0.04544871794871795 |
| 10 | 0.022115384615384617 | 0.05731837606837607 | 0.05731837606837607 |
| 11 | 0.03025641025641026 | 0.06788461538461539 | 0.06788461538461539 |
| 12 | 0.03803418803418804 | 0.07810897435897436 | 0.07810897435897436 |
| 13 | 0.04455128205128205 | 0.08782051282051283 | 0.08782051282051283 |
| 14 | 0.05104700854700855 | 0.09731837606837608 | 0.09731837606837608 |
| 15 | 0.05721153846153846 | 0.10652777777777779 | 0.10652777777777779 |
| 16 | 0.0630448717948718 | 0.11560897435897437 | 0.11560897435897437 |
| 17 | 0.06829059829059829 | 0.12490384615384616 | 0.12490384615384616 |
| 18 | 0.07362179487179488 | 0.1349465811965812 | 0.1349465811965812 |
| 19 | 0.07903846153846154 | 0.14430555555555558 | 0.14430555555555558 |
| 20 | 0.08452991452991454 | 0.15384615384615385 | 0.15384615384615385 |
| 21 | 0.08966880341880343 | 0.16345085470085471 | 0.16345085470085471 |
| 22 | 0.09557692307692309 | 0.1731303418803419 | 0.1731303418803419 |
| 23 | 0.10149572649572651 | 0.1826388888888889 | 0.1826388888888889 |
| 24 | 0.10700854700854702 | 0.19212606837606838 | 0.19212606837606838 |
| 25 | 0.11256410256410257 | 0.20122863247863249 | 0.20122863247863249 |
| 26 | 0.11813034188034188 | 0.21051282051282053 | 0.21051282051282053 |
| 27 | 0.12383547008547009 | 0.21958333333333335 | 0.21958333333333335 |
| 28 | 0.12930555555555556 | 0.2285683760683761 | 0.2285683760683761 |
| 29 | 0.1345619658119658 | 0.23732905982905986 | 0.23732905982905986 |
| 30 | 0.13952991452991453 | 0.2464529914529915 | 0.2464529914529915 |
| 31 | 0.1449145299145299 | 0.2561324786324787 | 0.2561324786324787 |
| 32 | 0.15011752136752135 | 0.2651175213675214 | 0.2651175213675214 |
| 33 | 0.15488247863247862 | 0.2743910256410257 | 0.2743910256410257 |
| 34 | 0.15992521367521365 | 0.2834081196581197 | 0.2834081196581197 |
| 35 | 0.16415598290598288 | 0.2923076923076923 | 0.2923076923076923 |
| 36 | 0.1684722222222222 | 0.301741452991453 | 0.301741452991453 |
| 37 | 0.1719764957264957 | 0.3108653846153846 | 0.3108653846153846 |
| 38 | 0.17587606837606834 | 0.3203311965811966 | 0.3203311965811966 |
| 39 | 0.179551282051282 | 0.3295619658119658 | 0.3295619658119658 |
| 40 | 0.18291666666666662 | 0.33841880341880337 | 0.33841880341880337 |
| 41 | 0.1860470085470085 | 0.3480235042735042 | 0.3480235042735042 |
| 42 | 0.18929487179487176 | 0.3574358974358974 | 0.3574358974358974 |
| 43 | 0.19225427350427346 | 0.3672863247863247 | 0.3672863247863247 |
| 44 | 0.19541666666666663 | 0.3772435897435897 | 0.3772435897435897 |
| 45 | 0.19845085470085466 | 0.3870192307692307 | 0.3870192307692307 |
| 46 | 0.20142094017094014 | 0.3972970085470085 | 0.3972970085470085 |
| 47 | 0.20430555555555552 | 0.40772435897435894 | 0.40772435897435894 |
| 48 | 0.20697649572649568 | 0.4181944444444444 | 0.4181944444444444 |
| 49 | 0.20987179487179483 | 0.4297649572649572 | 0.4297649572649572 |
| 50 | 0.2125213675213675 | 0.44068376068376064 | 0.44068376068376064 |
| 51 | 0.21552350427350425 | 0.4508760683760683 | 0.4508760683760683 |
| 52 | 0.21845085470085468 | 0.4606837606837606 | 0.4606837606837606 |
| 53 | 0.2213782051282051 | 0.46966880341880335 | 0.46966880341880335 |
| 54 | 0.224284188034188 | 0.47879273504273495 | 0.47879273504273495 |
| 55 | 0.22705128205128203 | 0.48762820512820504 | 0.48762820512820504 |
| 56 | 0.2296901709401709 | 0.49705128205128196 | 0.49705128205128196 |
| 57 | 0.23264957264957262 | 0.5062393162393162 | 0.5062393162393162 |
| 58 | 0.23526709401709398 | 0.5148076923076922 | 0.5148076923076922 |
| 59 | 0.23809829059829055 | 0.5229166666666666 | 0.5229166666666666 |
| 60 | 0.24106837606837603 | 0.5306944444444444 | 0.5306944444444444 |
| 61 | 0.24385683760683757 | 0.538792735042735 | 0.538792735042735 |
| 62 | 0.24686965811965808 | 0.5468589743589742 | 0.5468589743589742 |
| 63 | 0.24999999999999997 | 0.5550747863247862 | 0.5550747863247862 |
| 64 | 0.25307692307692303 | 0.5627564102564102 | 0.5627564102564102 |
| 65 | 0.2561965811965812 | 0.5696474358974358 | 0.5696474358974358 |
| 66 | 0.2595192307692307 | 0.5775320512820512 | 0.5775320512820512 |
| 67 | 0.2632799145299145 | 0.5850320512820512 | 0.5850320512820512 |
| 68 | 0.26677350427350427 | 0.5922222222222221 | 0.5922222222222221 |
| 69 | 0.27087606837606837 | 0.5992521367521366 | 0.5992521367521366 |
| 70 | 0.27441239316239313 | 0.6052564102564101 | 0.6052564102564101 |
| 71 | 0.2781944444444444 | 0.6103311965811964 | 0.6103311965811964 |
| 72 | 0.2820299145299145 | 0.6153311965811964 | 0.6153311965811964 |
| 73 | 0.28592948717948713 | 0.6200854700854699 | 0.6200854700854699 |
| 74 | 0.2902564102564102 | 0.6247435897435896 | 0.6247435897435896 |
| 75 | 0.29456196581196575 | 0.628653846153846 | 0.628653846153846 |
| 76 | 0.29857905982905975 | 0.6320512820512819 | 0.6320512820512819 |
| 77 | 0.3027243589743589 | 0.6353098290598289 | 0.6353098290598289 |
| 78 | 0.3072649572649572 | 0.6383653846153845 | 0.6383653846153845 |
| 79 | 0.3118162393162392 | 0.641869658119658 | 0.641869658119658 |
| 80 | 0.31661324786324774 | 0.6450213675213674 | 0.6450213675213674 |
| 81 | 0.3209401709401708 | 0.6480341880341879 | 0.6480341880341879 |
| 82 | 0.32557692307692293 | 0.6509401709401708 | 0.6509401709401708 |
| 83 | 0.33050213675213663 | 0.6538247863247861 | 0.6538247863247861 |
| 84 | 0.33539529914529903 | 0.6568055555555553 | 0.6568055555555553 |
| 85 | 0.3404594017094016 | 0.6597008547008545 | 0.6597008547008545 |
| 86 | 0.34508547008546997 | 0.6627884615384614 | 0.6627884615384614 |
| 87 | 0.34983974358974346 | 0.6651816239316237 | 0.6651816239316237 |
| 88 | 0.35476495726495716 | 0.6677564102564101 | 0.6677564102564101 |
| 89 | 0.35928418803418793 | 0.67017094017094 | 0.67017094017094 |
| 90 | 0.3645085470085469 | 0.6721474358974358 | 0.6721474358974358 |
| 91 | 0.36914529914529903 | 0.6744337606837605 | 0.6744337606837605 |
| 92 | 0.3746153846153845 | 0.6764529914529912 | 0.6764529914529912 |
| 93 | 0.3806837606837606 | 0.6786538461538459 | 0.6786538461538459 |
| 94 | 0.3862820512820512 | 0.6805021367521366 | 0.6805021367521366 |
| 95 | 0.3917307692307691 | 0.6822115384615383 | 0.6822115384615383 |
| 96 | 0.39702991452991443 | 0.6838247863247862 | 0.6838247863247862 |
| 97 | 0.4024679487179486 | 0.6857692307692306 | 0.6857692307692306 |
| 98 | 0.40816239316239306 | 0.688611111111111 | 0.688611111111111 |
| 99 | 0.4136217948717948 | 0.6914743589743588 | 0.6914743589743588 |
| 100 | 0.42050213675213666 | 0.6942735042735041 | 0.6942735042735041 |
| 101 | 0.42847222222222214 | 0.6974679487179486 | 0.6974679487179486 |
| 102 | 0.4375106837606837 | 0.7009935897435896 | 0.7009935897435896 |
| 103 | 0.4480876068376068 | 0.7048931623931622 | 0.7048931623931622 |
| 104 | 0.4589209401709401 | 0.7085790598290597 | 0.7085790598290597 |
| 105 | 0.47004273504273497 | 0.7111217948717947 | 0.7111217948717947 |
| 106 | 0.48042735042735035 | 0.7140491452991451 | 0.7140491452991451 |
| 107 | 0.4898824786324786 | 0.7162179487179485 | 0.7162179487179485 |
| 108 | 0.4992200854700854 | 0.7185042735042733 | 0.7185042735042733 |
| 109 | 0.5080128205128205 | 0.7210042735042732 | 0.7210042735042732 |
| 110 | 0.5166559829059829 | 0.7234935897435895 | 0.7234935897435895 |
| 111 | 0.5261324786324786 | 0.7256944444444442 | 0.7256944444444442 |
| 112 | 0.5349893162393162 | 0.7281944444444441 | 0.7281944444444441 |
| 113 | 0.5434188034188034 | 0.7307051282051279 | 0.7307051282051279 |
| 114 | 0.5530662393162393 | 0.7331196581196578 | 0.7331196581196578 |
| 115 | 0.5626602564102564 | 0.7358653846153843 | 0.7358653846153843 |
| 116 | 0.5721153846153846 | 0.738514957264957 | 0.738514957264957 |
| 117 | 0.5823290598290598 | 0.7412499999999997 | 0.7412499999999997 |
| 118 | 0.592991452991453 | 0.7439850427350425 | 0.7439850427350425 |
| 119 | 0.6035149572649572 | 0.7469658119658117 | 0.7469658119658117 |
| 120 | 0.6132799145299145 | 0.7500213675213673 | 0.7500213675213673 |
| 121 | 0.6235576923076923 | 0.7531944444444442 | 0.7531944444444442 |
| 122 | 0.6332371794871795 | 0.7562606837606834 | 0.7562606837606834 |
| 123 | 0.6412179487179487 | 0.7589423076923074 | 0.7589423076923074 |
| 124 | 0.6496367521367521 | 0.7610470085470082 | 0.7610470085470082 |
| 125 | 0.6575641025641025 | 0.7631730769230766 | 0.7631730769230766 |
| 126 | 0.6647435897435896 | 0.7648824786324783 | 0.7648824786324783 |
| 127 | 0.6723824786324785 | 0.7659829059829056 | 0.7659829059829056 |
| 128 | 0.6799679487179485 | 0.7667735042735039 | 0.7667735042735039 |
| 129 | 0.6876816239316237 | 0.7677136752136748 | 0.7677136752136748 |
| 130 | 0.6948931623931621 | 0.7686324786324783 | 0.7686324786324783 |
| 131 | 0.7020299145299143 | 0.7695299145299141 | 0.7695299145299141 |
| 132 | 0.7090811965811963 | 0.7705021367521364 | 0.7705021367521364 |
| 133 | 0.7159508547008544 | 0.7712499999999997 | 0.7712499999999997 |
| 134 | 0.7218482905982903 | 0.7719978632478629 | 0.7719978632478629 |
| 135 | 0.7279594017094013 | 0.7724999999999996 | 0.7724999999999996 |
| 136 | 0.7336645299145296 | 0.7732051282051279 | 0.7732051282051279 |
| 137 | 0.7389102564102561 | 0.7737820512820509 | 0.7737820512820509 |
| 138 | 0.7445619658119655 | 0.774444444444444 | 0.774444444444444 |
| 139 | 0.7497115384615382 | 0.7752029914529911 | 0.7752029914529911 |
| 140 | 0.754626068376068 | 0.7760683760683758 | 0.7760683760683758 |
| 141 | 0.75909188034188 | 0.7769871794871792 | 0.7769871794871792 |
| 142 | 0.7634722222222219 | 0.7777350427350425 | 0.7777350427350425 |
| 143 | 0.7677457264957261 | 0.7785363247863245 | 0.7785363247863245 |
| 144 | 0.7717200854700851 | 0.7794658119658117 | 0.7794658119658117 |
| 145 | 0.7753205128205124 | 0.7803739316239313 | 0.7803739316239313 |
| 146 | 0.7791239316239312 | 0.7809829059829057 | 0.7809829059829057 |
| 147 | 0.7826923076923074 | 0.7820085470085467 | 0.7820085470085467 |
| 148 | 0.7861431623931621 | 0.7830128205128202 | 0.7830128205128202 |
| 149 | 0.7895299145299142 | 0.784134615384615 | 0.784134615384615 |
| 150 | 0.7929700854700851 | 0.7856944444444441 | 0.7856944444444441 |
| 151 | 0.7961965811965808 | 0.7873717948717945 | 0.7873717948717945 |
| 152 | 0.7996901709401705 | 0.7894230769230766 | 0.7894230769230766 |
| 153 | 0.8035683760683756 | 0.7919444444444441 | 0.7919444444444441 |
| 154 | 0.8082478632478628 | 0.7945726495726493 | 0.7945726495726493 |
| 155 | 0.8138568376068371 | 0.7974679487179485 | 0.7974679487179485 |
| 156 | 0.8217841880341875 | 0.8002350427350424 | 0.8002350427350424 |
| 157 | 0.832521367521367 | 0.8035256410256407 | 0.8035256410256407 |
| 158 | 0.8471367521367515 | 0.8069658119658116 | 0.8069658119658116 |
| 159 | 0.8658440170940165 | 0.8113782051282048 | 0.8113782051282048 |
| 160 | 0.8871794871794866 | 0.817126068376068 | 0.817126068376068 |
| 161 | 0.9061217948717942 | 0.8246901709401706 | 0.8246901709401706 |
| 162 | 0.9234722222222216 | 0.834850427350427 | 0.834850427350427 |
| 163 | 0.9379700854700849 | 0.8483653846153842 | 0.8483653846153842 |
| 164 | 0.9516559829059823 | 0.8644337606837603 | 0.8644337606837603 |
| 165 | 0.9622222222222216 | 0.8814957264957262 | 0.8814957264957262 |
| 166 | 0.9704594017094011 | 0.895608974358974 | 0.895608974358974 |
| 167 | 0.9790918803418798 | 0.9064743589743587 | 0.9064743589743587 |
| 168 | 0.9875427350427345 | 0.9166025641025638 | 0.9166025641025638 |
| 169 | 0.993995726495726 | 0.9245299145299142 | 0.9245299145299142 |
| 170 | 0.9974145299145294 | 0.9330235042735039 | 0.9330235042735039 |
| 171 | 0.9992200854700849 | 0.943376068376068 | 0.943376068376068 |
| 172 | 0.9997970085470079 | 0.9570512820512816 | 0.9570512820512816 |
| 173 | 0.9999358974358968 | 0.9682478632478628 | 0.9682478632478628 |
| 174 | 0.9999572649572643 | 0.9770619658119654 | 0.9770619658119654 |
| 175 | 0.9999893162393156 | 0.9855021367521363 | 0.9855021367521363 |
| 176 | 0.9999999999999994 | 0.9920085470085466 | 0.9920085470085466 |
| 177 | 0.9999999999999994 | 0.996495726495726 | 0.996495726495726 |
| 178 | 0.9999999999999994 | 0.998685897435897 | 0.998685897435897 |
| 179 | 0.9999999999999994 | 0.9996901709401704 | 0.9996901709401704 |
| 180 | 0.9999999999999994 | 0.9999465811965806 | 0.9999465811965806 |
| 181 | 0.9999999999999994 | 0.9999893162393156 | 0.9999893162393156 |
| 182 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 183 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 184 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 185 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 186 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 187 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 188 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 189 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 190 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 191 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 192 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 193 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 194 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 195 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 196 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 197 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 198 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 199 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 200 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 201 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 202 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 203 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 204 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 205 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 206 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 207 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 208 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 209 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 210 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 211 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 212 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 213 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 214 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 215 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 216 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
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| 218 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 219 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 220 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 221 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 222 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 223 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 224 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 225 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 226 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 227 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 228 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 229 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 230 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 231 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 232 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 233 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 234 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 235 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 236 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 237 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 238 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 239 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 240 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 241 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 242 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 243 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 244 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 245 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 246 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 247 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 248 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 249 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 250 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 251 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 252 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 253 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 254 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |
| 255 | 0.9999999999999994 | 0.9999999999999994 | 0.9999999999999994 |

1. Anomaly histogram

|  |  |  |  |
| --- | --- | --- | --- |
| Intensity | RED | GREEN | BLUE |
| 0 | 1.0683760683760684E-5 | 0.0 | 8.547008547008547E-5 |
| 1 | 4.2735042735042735E-5 | 4.2735042735042735E-5 | 1.923076923076923E-4 |
| 2 | 1.6025641025641026E-4 | 1.7094017094017094E-4 | 6.517094017094017E-4 |
| 3 | 0.0013995726495726498 | 0.0013995726495726495 | 0.0027243589743589742 |
| 4 | 0.00482905982905983 | 0.004786324786324786 | 0.008215811965811965 |
| 5 | 0.010021367521367522 | 0.010085470085470085 | 0.017361111111111112 |
| 6 | 0.017702991452991455 | 0.017927350427350427 | 0.0313034188034188 |
| 7 | 0.02790598290598291 | 0.027777777777777776 | 0.04823717948717948 |
| 8 | 0.039134615384615386 | 0.03837606837606838 | 0.06516025641025641 |
| 9 | 0.05122863247863248 | 0.04998931623931624 | 0.08305555555555555 |
| 10 | 0.0635042735042735 | 0.06270299145299145 | 0.09846153846153846 |
| 11 | 0.07529914529914529 | 0.07452991452991453 | 0.11268162393162393 |
| 12 | 0.08633547008547007 | 0.08615384615384615 | 0.12552350427350425 |
| 13 | 0.09733974358974358 | 0.09805555555555555 | 0.13823717948717948 |
| 14 | 0.10749999999999998 | 0.10996794871794871 | 0.14851495726495725 |
| 15 | 0.11729700854700853 | 0.12186965811965811 | 0.15876068376068375 |
| 16 | 0.12659188034188032 | 0.13255341880341878 | 0.1681517094017094 |
| 17 | 0.1345299145299145 | 0.14247863247863246 | 0.17735042735042736 |
| 18 | 0.14152777777777775 | 0.15112179487179486 | 0.18597222222222223 |
| 19 | 0.14769230769230768 | 0.1585363247863248 | 0.19470085470085471 |
| 20 | 0.15215811965811965 | 0.16488247863247862 | 0.20417735042735044 |
| 21 | 0.1565491452991453 | 0.1704380341880342 | 0.21391025641025643 |
| 22 | 0.1601282051282051 | 0.17528846153846153 | 0.2244123931623932 |
| 23 | 0.1633867521367521 | 0.17997863247863247 | 0.23610042735042738 |
| 24 | 0.16604700854700852 | 0.1843162393162393 | 0.2486217948717949 |
| 25 | 0.16870726495726493 | 0.1885576923076923 | 0.262232905982906 |
| 26 | 0.17100427350427347 | 0.1922970085470085 | 0.2751388888888889 |
| 27 | 0.17302350427350424 | 0.19590811965811963 | 0.28810897435897437 |
| 28 | 0.17499999999999996 | 0.20022435897435895 | 0.30106837606837605 |
| 29 | 0.17654914529914525 | 0.20474358974358972 | 0.3133119658119658 |
| 30 | 0.17811965811965808 | 0.20929487179487177 | 0.32503205128205126 |
| 31 | 0.17975427350427345 | 0.21381410256410255 | 0.3363782051282051 |
| 32 | 0.1812072649572649 | 0.21854700854700854 | 0.3474038461538461 |
| 33 | 0.1825961538461538 | 0.22352564102564101 | 0.3577564102564102 |
| 34 | 0.18422008547008542 | 0.22889957264957264 | 0.3687286324786324 |
| 35 | 0.18527777777777774 | 0.2341239316239316 | 0.37960470085470077 |
| 36 | 0.1867307692307692 | 0.23930555555555555 | 0.39069444444444434 |
| 37 | 0.18795940170940167 | 0.2449465811965812 | 0.4029380341880341 |
| 38 | 0.18931623931623928 | 0.25101495726495726 | 0.4158760683760683 |
| 39 | 0.19075854700854697 | 0.2572863247863248 | 0.428344017094017 |
| 40 | 0.19211538461538458 | 0.2637286324786325 | 0.44114316239316226 |
| 41 | 0.19366452991452987 | 0.2705128205128205 | 0.45316239316239304 |
| 42 | 0.19543803418803415 | 0.27755341880341877 | 0.465619658119658 |
| 43 | 0.19714743589743586 | 0.2850106837606837 | 0.4779273504273503 |
| 44 | 0.198792735042735 | 0.2924465811965812 | 0.48925213675213663 |
| 45 | 0.2009081196581196 | 0.30020299145299145 | 0.5011324786324786 |
| 46 | 0.20299145299145294 | 0.3083760683760684 | 0.5126816239316239 |
| 47 | 0.2054700854700854 | 0.3157905982905983 | 0.5243910256410256 |
| 48 | 0.20784188034188028 | 0.32243589743589746 | 0.5348076923076922 |
| 49 | 0.2105555555555555 | 0.32900641025641025 | 0.5450427350427349 |
| 50 | 0.2134615384615384 | 0.3359722222222222 | 0.5547649572649571 |
| 51 | 0.21589743589743585 | 0.34321581196581197 | 0.5640598290598289 |
| 52 | 0.2185149572649572 | 0.35088675213675213 | 0.5737606837606836 |
| 53 | 0.2208547008547008 | 0.3580128205128205 | 0.5834508547008546 |
| 54 | 0.2231944444444444 | 0.3655555555555556 | 0.5921688034188033 |
| 55 | 0.22565170940170934 | 0.37286324786324787 | 0.6011752136752135 |
| 56 | 0.2282158119658119 | 0.3798183760683761 | 0.6093055555555554 |
| 57 | 0.23067307692307684 | 0.38667735042735046 | 0.6171474358974358 |
| 58 | 0.23347222222222214 | 0.3933760683760684 | 0.6246153846153846 |
| 59 | 0.23594017094017086 | 0.4000427350427351 | 0.6317414529914529 |
| 60 | 0.23894230769230762 | 0.406698717948718 | 0.6388034188034187 |
| 61 | 0.24223290598290592 | 0.4131517094017094 | 0.6452991452991452 |
| 62 | 0.2454487179487179 | 0.4197863247863248 | 0.6517200854700854 |
| 63 | 0.24853632478632473 | 0.4263141025641026 | 0.6572435897435897 |
| 64 | 0.2519658119658119 | 0.4333012820512821 | 0.6628632478632478 |
| 65 | 0.25510683760683756 | 0.4408226495726496 | 0.668344017094017 |
| 66 | 0.25818376068376064 | 0.44851495726495727 | 0.6737286324786325 |
| 67 | 0.26170940170940166 | 0.45686965811965813 | 0.6783119658119658 |
| 68 | 0.2652777777777777 | 0.4654594017094017 | 0.6831944444444444 |
| 69 | 0.268792735042735 | 0.47340811965811963 | 0.687767094017094 |
| 70 | 0.27223290598290595 | 0.48135683760683756 | 0.6920512820512821 |
| 71 | 0.27619658119658114 | 0.48916666666666664 | 0.6964316239316239 |
| 72 | 0.28061965811965806 | 0.4972222222222222 | 0.700224358974359 |
| 73 | 0.2854166666666666 | 0.5050747863247863 | 0.7037179487179487 |
| 74 | 0.2898397435897435 | 0.5122115384615384 | 0.7072435897435897 |
| 75 | 0.2944123931623931 | 0.5188568376068375 | 0.710309829059829 |
| 76 | 0.2990277777777777 | 0.5254487179487178 | 0.7132371794871794 |
| 77 | 0.3034935897435897 | 0.5322435897435897 | 0.7161324786324785 |
| 78 | 0.30834401709401704 | 0.5395299145299144 | 0.7187286324786324 |
| 79 | 0.3134081196581196 | 0.5464423076923075 | 0.7213354700854699 |
| 80 | 0.3182158119658119 | 0.5529487179487178 | 0.7239316239316238 |
| 81 | 0.32309829059829054 | 0.5599572649572648 | 0.7267735042735042 |
| 82 | 0.3284615384615384 | 0.5665384615384614 | 0.7292414529914529 |
| 83 | 0.334059829059829 | 0.573386752136752 | 0.7319337606837606 |
| 84 | 0.3397970085470085 | 0.5808547008547008 | 0.7341239316239315 |
| 85 | 0.3449252136752136 | 0.5879594017094016 | 0.736292735042735 |
| 86 | 0.3509188034188034 | 0.595534188034188 | 0.7382799145299145 |
| 87 | 0.35641025641025637 | 0.6038141025641025 | 0.7401816239316239 |
| 88 | 0.36242521367521363 | 0.6115277777777777 | 0.7420833333333333 |
| 89 | 0.3685790598290598 | 0.6188461538461537 | 0.7440277777777777 |
| 90 | 0.3747863247863248 | 0.6273076923076921 | 0.745844017094017 |
| 91 | 0.38085470085470086 | 0.6355982905982904 | 0.7474038461538461 |
| 92 | 0.3863141025641026 | 0.6441987179487177 | 0.7490705128205128 |
| 93 | 0.39211538461538464 | 0.6523717948717946 | 0.7505982905982906 |
| 94 | 0.3980021367521368 | 0.660213675213675 | 0.7520299145299145 |
| 95 | 0.40432692307692314 | 0.6670940170940169 | 0.7533867521367521 |
| 96 | 0.4106303418803419 | 0.6742414529914529 | 0.7547863247863248 |
| 97 | 0.41763888888888895 | 0.6807051282051281 | 0.7561538461538462 |
| 98 | 0.42416666666666675 | 0.6869017094017092 | 0.7579700854700855 |
| 99 | 0.43084401709401715 | 0.6923076923076922 | 0.7602991452991453 |
| 100 | 0.43786324786324793 | 0.6977243589743588 | 0.7630341880341881 |
| 101 | 0.444957264957265 | 0.7025961538461537 | 0.7661752136752138 |
| 102 | 0.45246794871794876 | 0.7069551282051281 | 0.769113247863248 |
| 103 | 0.4595726495726496 | 0.7113034188034186 | 0.7721901709401711 |
| 104 | 0.4675641025641026 | 0.71650641025641 | 0.7758333333333335 |
| 105 | 0.4756517094017094 | 0.7210790598290596 | 0.7792735042735044 |
| 106 | 0.48370726495726496 | 0.7258440170940169 | 0.7822115384615386 |
| 107 | 0.49330128205128204 | 0.7314316239316238 | 0.7849786324786325 |
| 108 | 0.5034615384615384 | 0.7371153846153844 | 0.787681623931624 |
| 109 | 0.5135470085470085 | 0.7437499999999998 | 0.7901816239316239 |
| 110 | 0.5237179487179487 | 0.7508974358974357 | 0.7921153846153847 |
| 111 | 0.5349786324786325 | 0.7579807692307691 | 0.7935042735042735 |
| 112 | 0.5462927350427351 | 0.764903846153846 | 0.7943910256410257 |
| 113 | 0.5572329059829061 | 0.7711858974358973 | 0.7954273504273505 |
| 114 | 0.56741452991453 | 0.77642094017094 | 0.7961858974358975 |
| 115 | 0.5769551282051283 | 0.781688034188034 | 0.7969123931623933 |
| 116 | 0.5853952991452992 | 0.7857158119658118 | 0.7976175213675215 |
| 117 | 0.5941025641025641 | 0.7889209401709399 | 0.7984401709401711 |
| 118 | 0.6034081196581197 | 0.7916559829059827 | 0.7990811965811967 |
| 119 | 0.6120619658119658 | 0.7939423076923074 | 0.7995405982905984 |
| 120 | 0.6210256410256411 | 0.7957905982905981 | 0.8000106837606838 |
| 121 | 0.629465811965812 | 0.7970940170940168 | 0.8003098290598292 |
| 122 | 0.6375 | 0.7981944444444442 | 0.8006089743589745 |
| 123 | 0.6463782051282051 | 0.7992841880341878 | 0.8008226495726497 |
| 124 | 0.655042735042735 | 0.7999145299145296 | 0.8010576923076924 |
| 125 | 0.6635897435897435 | 0.8002777777777774 | 0.8012393162393163 |
| 126 | 0.672008547008547 | 0.8006410256410252 | 0.801613247863248 |
| 127 | 0.6804807692307692 | 0.8010042735042731 | 0.801880341880342 |
| 128 | 0.689017094017094 | 0.8013247863247859 | 0.802190170940171 |
| 129 | 0.6972863247863248 | 0.8016559829059825 | 0.8024252136752137 |
| 130 | 0.7043803418803419 | 0.8019658119658115 | 0.802767094017094 |
| 131 | 0.7112286324786325 | 0.8022970085470081 | 0.8032158119658119 |
| 132 | 0.7175320512820513 | 0.802574786324786 | 0.8034081196581196 |
| 133 | 0.7232051282051283 | 0.8028098290598287 | 0.8036965811965812 |
| 134 | 0.7291132478632479 | 0.8030982905982902 | 0.8040811965811966 |
| 135 | 0.7347435897435898 | 0.8034722222222218 | 0.8044978632478632 |
| 136 | 0.7404380341880342 | 0.8038354700854696 | 0.8048931623931623 |
| 137 | 0.7459935897435898 | 0.8041880341880338 | 0.8054273504273504 |
| 138 | 0.7516346153846154 | 0.8045619658119654 | 0.8057478632478632 |
| 139 | 0.7571581196581196 | 0.8048611111111107 | 0.8061004273504273 |
| 140 | 0.7624358974358975 | 0.8053311965811961 | 0.8065170940170939 |
| 141 | 0.7669123931623932 | 0.8057051282051277 | 0.8069871794871794 |
| 142 | 0.7714957264957266 | 0.8062072649572645 | 0.8075641025641024 |
| 143 | 0.77607905982906 | 0.8067521367521363 | 0.8082158119658118 |
| 144 | 0.7803739316239318 | 0.8070619658119653 | 0.8090491452991452 |
| 145 | 0.7846581196581198 | 0.8075320512820507 | 0.8099999999999998 |
| 146 | 0.7892307692307694 | 0.8079380341880337 | 0.8111004273504272 |
| 147 | 0.7933760683760686 | 0.8083974358974354 | 0.8122863247863247 |
| 148 | 0.7973931623931626 | 0.809081196581196 | 0.8135576923076921 |
| 149 | 0.8014957264957268 | 0.8097649572649567 | 0.8147649572649571 |
| 150 | 0.8056303418803421 | 0.8107799145299139 | 0.8160256410256409 |
| 151 | 0.8093803418803421 | 0.8118589743589738 | 0.8175534188034187 |
| 152 | 0.8128098290598293 | 0.8131730769230764 | 0.8190384615384614 |
| 153 | 0.8157478632478635 | 0.8141880341880336 | 0.8207905982905981 |
| 154 | 0.818226495726496 | 0.8156196581196575 | 0.8226282051282049 |
| 155 | 0.8204914529914532 | 0.8172329059829054 | 0.8244764957264955 |
| 156 | 0.8226282051282053 | 0.8189743589743584 | 0.8265170940170938 |
| 157 | 0.8248611111111113 | 0.8207692307692303 | 0.8287927350427349 |
| 158 | 0.8270833333333335 | 0.8225320512820508 | 0.8310790598290596 |
| 159 | 0.8296153846153848 | 0.8245833333333328 | 0.8335790598290596 |
| 160 | 0.8326175213675215 | 0.8265064102564097 | 0.836282051282051 |
| 161 | 0.8353739316239318 | 0.8288782051282045 | 0.8391025641025638 |
| 162 | 0.8384829059829062 | 0.8314209401709396 | 0.8419551282051279 |
| 163 | 0.8416987179487182 | 0.8337286324786319 | 0.8446047008547005 |
| 164 | 0.8451709401709404 | 0.8364636752136747 | 0.848514957264957 |
| 165 | 0.8491346153846157 | 0.8394230769230764 | 0.8527670940170937 |
| 166 | 0.8534829059829062 | 0.8426175213675209 | 0.8577564102564099 |
| 167 | 0.8588247863247865 | 0.846185897435897 | 0.8641987179487176 |
| 168 | 0.8643055555555558 | 0.8501282051282048 | 0.8715170940170937 |
| 169 | 0.8702457264957267 | 0.854893162393162 | 0.8795192307692304 |
| 170 | 0.8766239316239318 | 0.860032051282051 | 0.8876068376068372 |
| 171 | 0.8833012820512822 | 0.8659935897435894 | 0.8943269230769227 |
| 172 | 0.8902243589743591 | 0.8726602564102561 | 0.8997008547008544 |
| 173 | 0.8962713675213677 | 0.8797756410256408 | 0.9040170940170937 |
| 174 | 0.9013995726495728 | 0.8865598290598288 | 0.9080876068376066 |
| 175 | 0.9060683760683762 | 0.8927777777777774 | 0.9124252136752135 |
| 176 | 0.9105555555555557 | 0.8979273504273501 | 0.9163354700854699 |
| 177 | 0.9148504273504274 | 0.9027777777777775 | 0.92017094017094 |
| 178 | 0.9191025641025642 | 0.9072863247863244 | 0.9241666666666666 |
| 179 | 0.9236538461538463 | 0.9114743589743586 | 0.927852564102564 |
| 180 | 0.9288034188034189 | 0.9154487179487175 | 0.9328311965811965 |
| 181 | 0.9361965811965812 | 0.9195833333333329 | 0.94133547008547 |
| 182 | 0.9447970085470085 | 0.9238675213675209 | 0.9552029914529914 |
| 183 | 0.9564957264957265 | 0.92909188034188 | 0.9663568376068375 |
| 184 | 0.9673504273504273 | 0.9372008547008543 | 0.9740918803418803 |
| 185 | 0.9752029914529914 | 0.9504700854700852 | 0.9824465811965811 |
| 186 | 0.9824252136752136 | 0.9644444444444441 | 0.9901388888888888 |
| 187 | 0.9897115384615384 | 0.9739529914529911 | 0.9957478632478631 |
| 188 | 0.9954700854700854 | 0.9817521367521364 | 0.9981944444444443 |
| 189 | 0.9981623931623931 | 0.9893803418803415 | 0.9994444444444442 |
| 190 | 0.999508547008547 | 0.9952243589743586 | 0.9998611111111109 |
| 191 | 0.9999145299145299 | 0.9979487179487175 | 0.9999679487179485 |
| 192 | 0.9999786324786325 | 0.9993589743589739 | 0.9999786324786323 |
| 193 | 0.9999893162393163 | 0.9999038461538458 | 0.9999893162393161 |
| 194 | 0.9999893162393163 | 0.9999786324786321 | 0.9999893162393161 |
| 195 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 196 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 197 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 198 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 199 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 200 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 201 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 202 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 203 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 204 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 205 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 206 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 207 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 208 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 209 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 210 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 211 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 212 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 213 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 214 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 215 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 216 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 217 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 218 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 219 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 220 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 221 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 222 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 223 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 224 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 225 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 226 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 227 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 228 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 229 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 230 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 231 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 232 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 233 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 234 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 235 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 236 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 237 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 238 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 239 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 240 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 241 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 242 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 243 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 244 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 245 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 246 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 247 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 248 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 249 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 250 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 251 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 252 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 253 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 254 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |
| 255 | 1.0 | 0.9999999999999996 | 0.9999999999999999 |