

Color Matching Functions for 2deg (CIE 1931)

from url://www.cvrl.org

| λ (nm) | $x(\lambda)$ | $y(\lambda)$ | $z(\lambda)$ |
|----------------|--------------|--------------|--------------|
| 360 | 0.0001299 | 0.000003917 | 0.0006061 |
| 361 | 0.000145847 | 4.39358E-06 | 0.000680879 |
| 362 | 0.000163802 | 4.9296E-06 | 0.000765146 |
| 363 | 0.000184004 | 5.53214E-06 | 0.000860012 |
| 364 | 0.00020669 | 6.20825E-06 | 0.000966593 |
| 365 | 0.0002321 | 0.000006965 | 0.001086 |
| 366 | 0.000260728 | 7.81322E-06 | 0.001220586 |
| 367 | 0.000293075 | 8.76734E-06 | 0.001372729 |
| 368 | 0.000329388 | 9.83984E-06 | 0.001543579 |
| 369 | 0.000369914 | 1.10432E-05 | 0.001734286 |
| 370 | 0.0004149 | 0.00001239 | 0.001946 |
| 371 | 0.000464159 | 1.38864E-05 | 0.002177777 |
| 372 | 0.000518986 | 1.55573E-05 | 0.002435809 |
| 373 | 0.000581854 | 1.7443E-05 | 0.002731953 |
| 374 | 0.000655235 | 1.95838E-05 | 0.003078064 |
| 375 | 0.0007416 | 0.00002202 | 0.003486 |
| 376 | 0.00084503 | 2.48397E-05 | 0.003975227 |
| 377 | 0.000964527 | 2.80413E-05 | 0.00454088 |
| 378 | 0.001094949 | 3.1531E-05 | 0.00515832 |
| 379 | 0.001231154 | 3.52152E-05 | 0.005802907 |
| 380 | 0.001368 | 0.000039 | 0.006450001 |
| 381 | 0.00150205 | 4.28264E-05 | 0.007083216 |
| 382 | 0.001642328 | 4.69146E-05 | 0.007745488 |
| 383 | 0.001802382 | 5.15896E-05 | 0.008501152 |
| 384 | 0.001995757 | 5.71764E-05 | 0.009414544 |
| 385 | 0.002236 | 0.000064 | 0.01054999 |
| 386 | 0.002535385 | 7.23442E-05 | 0.0119658 |
| 387 | 0.002892603 | 8.22122E-05 | 0.01365587 |
| 388 | 0.003300829 | 9.35082E-05 | 0.01558805 |
| 389 | 0.003753236 | 0.000106136 | 0.01773015 |
| 390 | 0.004243 | 0.00012 | 0.02005001 |
| 391 | 0.004762389 | 0.000134984 | 0.02251136 |
| 392 | 0.005330048 | 0.000151492 | 0.02520288 |
| 393 | 0.005978712 | 0.000170208 | 0.02827972 |
| 394 | 0.006741117 | 0.000191816 | 0.03189704 |
| 395 | 0.00765 | 0.000217 | 0.03621 |
| 396 | 0.008751373 | 0.000246907 | 0.04143771 |
| 397 | 0.01002888 | 0.00028124 | 0.04750372 |
| 398 | 0.0114217 | 0.00031852 | 0.05411988 |
| 399 | 0.01286901 | 0.000357267 | 0.06099803 |
| 400 | 0.01431 | 0.000396 | 0.06785001 |
| 401 | 0.01570443 | 0.000433715 | 0.07448632 |
| 402 | 0.01714744 | 0.000473024 | 0.08136156 |
| 403 | 0.01878122 | 0.000517876 | 0.08915364 |
| 404 | 0.02074801 | 0.000572219 | 0.09854048 |
| 405 | 0.02319 | 0.00064 | 0.1102 |
| 406 | 0.02620736 | 0.00072456 | 0.1246133 |

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| 407 | 0.02978248 | 0.0008255 | 0.1417017 |
| 408 | 0.03388092 | 0.00094116 | 0.1613035 |
| 409 | 0.03846824 | 0.00106988 | 0.1832568 |
| 410 | 0.04351 | 0.00121 | 0.2074 |
| 411 | 0.0489956 | 0.001362091 | 0.2336921 |
| 412 | 0.0550226 | 0.001530752 | 0.2626114 |
| 413 | 0.0617188 | 0.001720368 | 0.2947746 |
| 414 | 0.069212 | 0.001935323 | 0.3307985 |
| 415 | 0.07763 | 0.00218 | 0.3713 |
| 416 | 0.08695811 | 0.0024548 | 0.4162091 |
| 417 | 0.09717672 | 0.002764 | 0.4654642 |
| 418 | 0.1084063 | 0.0031178 | 0.5196948 |
| 419 | 0.1207672 | 0.0035264 | 0.5795303 |
| 420 | 0.13438 | 0.004 | 0.6456 |
| 421 | 0.1493582 | 0.00454624 | 0.7184838 |
| 422 | 0.1653957 | 0.00515932 | 0.7967133 |
| 423 | 0.1819831 | 0.00582928 | 0.8778459 |
| 424 | 0.198611 | 0.00654616 | 0.959439 |
| 425 | 0.21477 | 0.0073 | 1.0390501 |
| 426 | 0.2301868 | 0.008086507 | 1.1153673 |
| 427 | 0.2448797 | 0.00890872 | 1.1884971 |
| 428 | 0.2587773 | 0.00976768 | 1.2581233 |
| 429 | 0.2718079 | 0.01066443 | 1.3239296 |
| 430 | 0.2839 | 0.0116 | 1.3856 |
| 431 | 0.2949438 | 0.01257317 | 1.4426352 |
| 432 | 0.3048965 | 0.01358272 | 1.4948035 |
| 433 | 0.3137873 | 0.01462968 | 1.5421903 |
| 434 | 0.3216454 | 0.01571509 | 1.5848807 |
| 435 | 0.3285 | 0.01684 | 1.62296 |
| 436 | 0.3343513 | 0.01800736 | 1.6564048 |
| 437 | 0.3392101 | 0.01921448 | 1.6852959 |
| 438 | 0.3431213 | 0.02045392 | 1.7098745 |
| 439 | 0.3461296 | 0.02171824 | 1.7303821 |
| 440 | 0.34828 | 0.023 | 1.74706 |
| 441 | 0.3495999 | 0.02429461 | 1.7600446 |
| 442 | 0.3501474 | 0.02561024 | 1.7696233 |
| 443 | 0.350013 | 0.02695857 | 1.7762637 |
| 444 | 0.349287 | 0.02835125 | 1.7804334 |
| 445 | 0.34806 | 0.0298 | 1.7826 |
| 446 | 0.3463733 | 0.03131083 | 1.7829682 |
| 447 | 0.3442624 | 0.03288368 | 1.7816998 |
| 448 | 0.3418088 | 0.03452112 | 1.7791982 |
| 449 | 0.3390941 | 0.03622571 | 1.7758671 |
| 450 | 0.3362 | 0.038 | 1.77211 |
| 451 | 0.3331977 | 0.03984667 | 1.7682589 |
| 452 | 0.3300411 | 0.041768 | 1.764039 |
| 453 | 0.3266357 | 0.043766 | 1.7589438 |
| 454 | 0.3228868 | 0.04584267 | 1.7524663 |
| 455 | 0.3187 | 0.048 | 1.7441 |
| 456 | 0.3140251 | 0.05024368 | 1.7335595 |

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| 457 | 0.308884 | 0.05257304 | 1.7208581 |
| 458 | 0.3032904 | 0.05498056 | 1.7059369 |
| 459 | 0.2972579 | 0.05745872 | 1.6887372 |
| 460 | 0.2908 | 0.06 | 1.6692 |
| 461 | 0.2839701 | 0.06260197 | 1.6475287 |
| 462 | 0.2767214 | 0.06527752 | 1.6234127 |
| 463 | 0.2689178 | 0.06804208 | 1.5960223 |
| 464 | 0.2604227 | 0.07091109 | 1.564528 |
| 465 | 0.2511 | 0.0739 | 1.5281 |
| 466 | 0.2408475 | 0.077016 | 1.4861114 |
| 467 | 0.2298512 | 0.0802664 | 1.4395215 |
| 468 | 0.2184072 | 0.0836668 | 1.3898799 |
| 469 | 0.2068115 | 0.0872328 | 1.3387362 |
| 470 | 0.19536 | 0.09098 | 1.28764 |
| 471 | 0.1842136 | 0.09491755 | 1.2374223 |
| 472 | 0.1733273 | 0.09904584 | 1.1878243 |
| 473 | 0.1626881 | 0.1033674 | 1.1387611 |
| 474 | 0.1522833 | 0.1078846 | 1.090148 |
| 475 | 0.1421 | 0.1126 | 1.0419 |
| 476 | 0.1321786 | 0.117532 | 0.9941976 |
| 477 | 0.1225696 | 0.1226744 | 0.9473473 |
| 478 | 0.1132752 | 0.1279928 | 0.9014531 |
| 479 | 0.1042979 | 0.1334528 | 0.8566193 |
| 480 | 0.09564 | 0.13902 | 0.8129501 |
| 481 | 0.08729955 | 0.1446764 | 0.7705173 |
| 482 | 0.07930804 | 0.1504693 | 0.7294448 |
| 483 | 0.07171776 | 0.1564619 | 0.6899136 |
| 484 | 0.06458099 | 0.1627177 | 0.6521049 |
| 485 | 0.05795001 | 0.1693 | 0.6162 |
| 486 | 0.05186211 | 0.1762431 | 0.5823286 |
| 487 | 0.04628152 | 0.1835581 | 0.5504162 |
| 488 | 0.04115088 | 0.1912735 | 0.5203376 |
| 489 | 0.03641283 | 0.199418 | 0.4919673 |
| 490 | 0.03201 | 0.20802 | 0.46518 |
| 491 | 0.0279172 | 0.2171199 | 0.4399246 |
| 492 | 0.0241444 | 0.2267345 | 0.4161836 |
| 493 | 0.020687 | 0.2368571 | 0.3938822 |
| 494 | 0.0175404 | 0.2474812 | 0.3729459 |
| 495 | 0.0147 | 0.2586 | 0.3533 |
| 496 | 0.01216179 | 0.2701849 | 0.3348578 |
| 497 | 0.00991996 | 0.2822939 | 0.3175521 |
| 498 | 0.00796724 | 0.2950505 | 0.3013375 |
| 499 | 0.006296346 | 0.308578 | 0.2861686 |
| 500 | 0.0049 | 0.323 | 0.272 |
| 501 | 0.003777173 | 0.3384021 | 0.2588171 |
| 502 | 0.00294532 | 0.3546858 | 0.2464838 |
| 503 | 0.00242488 | 0.3716986 | 0.2347718 |
| 504 | 0.002236293 | 0.3892875 | 0.2234533 |
| 505 | 0.0024 | 0.4073 | 0.2123 |
| 506 | 0.00292552 | 0.4256299 | 0.2011692 |

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| 507 | 0.00383656 | 0.4443096 | 0.1901196 |
| 508 | 0.00517484 | 0.4633944 | 0.1792254 |
| 509 | 0.00698208 | 0.4829395 | 0.1685608 |
| 510 | 0.0093 | 0.503 | 0.1582 |
| 511 | 0.01214949 | 0.5235693 | 0.1481383 |
| 512 | 0.01553588 | 0.544512 | 0.1383758 |
| 513 | 0.01947752 | 0.56569 | 0.1289942 |
| 514 | 0.02399277 | 0.5869653 | 0.1200751 |
| 515 | 0.0291 | 0.6082 | 0.1117 |
| 516 | 0.03481485 | 0.6293456 | 0.1039048 |
| 517 | 0.04112016 | 0.6503068 | 0.09666748 |
| 518 | 0.04798504 | 0.6708752 | 0.08998272 |
| 519 | 0.05537861 | 0.6908424 | 0.08384531 |
| 520 | 0.06327 | 0.71 | 0.07824999 |
| 521 | 0.07163501 | 0.7281852 | 0.07320899 |
| 522 | 0.08046224 | 0.7454636 | 0.06867816 |
| 523 | 0.08973996 | 0.7619694 | 0.06456784 |
| 524 | 0.09945645 | 0.7778368 | 0.06078835 |
| 525 | 0.1096 | 0.7932 | 0.05725001 |
| 526 | 0.1201674 | 0.8081104 | 0.05390435 |
| 527 | 0.1311145 | 0.8224962 | 0.05074664 |
| 528 | 0.1423679 | 0.8363068 | 0.04775276 |
| 529 | 0.1538542 | 0.8494916 | 0.04489859 |
| 530 | 0.1655 | 0.862 | 0.04216 |
| 531 | 0.1772571 | 0.8738108 | 0.03950728 |
| 532 | 0.18914 | 0.8849624 | 0.03693564 |
| 533 | 0.2011694 | 0.8954936 | 0.03445836 |
| 534 | 0.2133658 | 0.9054432 | 0.03208872 |
| 535 | 0.2257499 | 0.9148501 | 0.02984 |
| 536 | 0.2383209 | 0.9237348 | 0.02771181 |
| 537 | 0.2510668 | 0.9320924 | 0.02569444 |
| 538 | 0.2639922 | 0.9399226 | 0.02378716 |
| 539 | 0.2771017 | 0.9472252 | 0.02198925 |
| 540 | 0.2904 | 0.954 | 0.0203 |
| 541 | 0.3038912 | 0.9602561 | 0.01871805 |
| 542 | 0.3175726 | 0.9660074 | 0.01724036 |
| 543 | 0.3314384 | 0.9712606 | 0.01586364 |
| 544 | 0.3454828 | 0.9760225 | 0.01458461 |
| 545 | 0.3597 | 0.9803 | 0.0134 |
| 546 | 0.3740839 | 0.9840924 | 0.01230723 |
| 547 | 0.3886396 | 0.9874182 | 0.01130188 |
| 548 | 0.4033784 | 0.9903128 | 0.01037792 |
| 549 | 0.4183115 | 0.9928116 | 0.009529306 |
| 550 | 0.4334499 | 0.9949501 | 0.008749999 |
| 551 | 0.4487953 | 0.9967108 | 0.0080352 |
| 552 | 0.464336 | 0.9980983 | 0.0073816 |
| 553 | 0.480064 | 0.999112 | 0.0067854 |
| 554 | 0.4959713 | 0.9997482 | 0.0062428 |
| 555 | 0.5120501 | 1 | 0.005749999 |
| 556 | 0.5282959 | 0.9998567 | 0.0053036 |

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| 557 | 0.5446916 | 0.9993046 | 0.0048998 |
| 558 | 0.5612094 | 0.9983255 | 0.0045342 |
| 559 | 0.5778215 | 0.9968987 | 0.0042024 |
| 560 | 0.5945 | 0.995 | 0.0039 |
| 561 | 0.6112209 | 0.9926005 | 0.0036232 |
| 562 | 0.6279758 | 0.9897426 | 0.0033706 |
| 563 | 0.6447602 | 0.9864444 | 0.0031414 |
| 564 | 0.6615697 | 0.9827241 | 0.0029348 |
| 565 | 0.6784 | 0.9786 | 0.002749999 |
| 566 | 0.6952392 | 0.9740837 | 0.0025852 |
| 567 | 0.7120586 | 0.9691712 | 0.0024386 |
| 568 | 0.7288284 | 0.9638568 | 0.0023094 |
| 569 | 0.7455188 | 0.9581349 | 0.0021968 |
| 570 | 0.7621 | 0.952 | 0.0021 |
| 571 | 0.7785432 | 0.9454504 | 0.002017733 |
| 572 | 0.7948256 | 0.9384992 | 0.0019482 |
| 573 | 0.8109264 | 0.9311628 | 0.0018898 |
| 574 | 0.8268248 | 0.9234576 | 0.001840933 |
| 575 | 0.8425 | 0.9154 | 0.0018 |
| 576 | 0.8579325 | 0.9070064 | 0.001766267 |
| 577 | 0.8730816 | 0.8982772 | 0.0017378 |
| 578 | 0.8878944 | 0.8892048 | 0.0017112 |
| 579 | 0.9023181 | 0.8797816 | 0.001683067 |
| 580 | 0.9163 | 0.87 | 0.001650001 |
| 581 | 0.9297995 | 0.8598613 | 0.001610133 |
| 582 | 0.9427984 | 0.849392 | 0.0015644 |
| 583 | 0.9552776 | 0.838622 | 0.0015136 |
| 584 | 0.9672179 | 0.8275813 | 0.001458533 |
| 585 | 0.9786 | 0.8163 | 0.0014 |
| 586 | 0.9893856 | 0.8047947 | 0.001336667 |
| 587 | 0.9995488 | 0.793082 | 0.00127 |
| 588 | 1.0090892 | 0.781192 | 0.001205 |
| 589 | 1.0180064 | 0.7691547 | 0.001146667 |
| 590 | 1.0263 | 0.757 | 0.0011 |
| 591 | 1.0339827 | 0.7447541 | 0.0010688 |
| 592 | 1.040986 | 0.7324224 | 0.0010494 |
| 593 | 1.047188 | 0.7200036 | 0.0010356 |
| 594 | 1.0524667 | 0.7074965 | 0.0010212 |
| 595 | 1.0567 | 0.6949 | 0.001 |
| 596 | 1.0597944 | 0.6822192 | 0.00096864 |
| 597 | 1.0617992 | 0.6694716 | 0.00092992 |
| 598 | 1.0628068 | 0.6566744 | 0.00088688 |
| 599 | 1.0629096 | 0.6438448 | 0.00084256 |
| 600 | 1.0622 | 0.631 | 0.0008 |
| 601 | 1.0607352 | 0.6181555 | 0.00076096 |
| 602 | 1.0584436 | 0.6053144 | 0.00072368 |
| 603 | 1.0552244 | 0.5924756 | 0.00068592 |
| 604 | 1.0509768 | 0.5796379 | 0.00064544 |
| 605 | 1.0456 | 0.5668 | 0.0006 |
| 606 | 1.0390369 | 0.5539611 | 0.000547867 |

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| 607 | 1.0313608 | 0.5411372 | 0.0004916 |
| 608 | 1.0226662 | 0.5283528 | 0.0004354 |
| 609 | 1.0130477 | 0.5156323 | 0.000383467 |
| 610 | 1.0026 | 0.503 | 0.00034 |
| 611 | 0.9913675 | 0.4904688 | 0.000307253 |
| 612 | 0.9793314 | 0.4780304 | 0.00028316 |
| 613 | 0.9664916 | 0.4656776 | 0.00026544 |
| 614 | 0.9528479 | 0.4534032 | 0.000251813 |
| 615 | 0.9384 | 0.4412 | 0.00024 |
| 616 | 0.923194 | 0.42908 | 0.000229547 |
| 617 | 0.907244 | 0.417036 | 0.00022064 |
| 618 | 0.890502 | 0.405032 | 0.00021196 |
| 619 | 0.87292 | 0.393032 | 0.000202187 |
| 620 | 0.8544499 | 0.381 | 0.00019 |
| 621 | 0.835084 | 0.3689184 | 0.000174213 |
| 622 | 0.814946 | 0.3568272 | 0.00015564 |
| 623 | 0.794186 | 0.3447768 | 0.00013596 |
| 624 | 0.772954 | 0.3328176 | 0.000116853 |
| 625 | 0.7514 | 0.321 | 0.0001 |
| 626 | 0.7295836 | 0.3093381 | 8.61333E-05 |
| 627 | 0.7075888 | 0.2978504 | 0.0000746 |
| 628 | 0.6856022 | 0.2865936 | 0.000065 |
| 629 | 0.6638104 | 0.2756245 | 5.69333E-05 |
| 630 | 0.6424 | 0.265 | 5E-05 |
| 631 | 0.6215149 | 0.2547632 | 0.00004416 |
| 632 | 0.6011138 | 0.2448896 | 0.00003948 |
| 633 | 0.5811052 | 0.2353344 | 0.00003572 |
| 634 | 0.5613977 | 0.2260528 | 0.00003264 |
| 635 | 0.5419 | 0.217 | 0.00003 |
| 636 | 0.5225995 | 0.2081616 | 2.76533E-05 |
| 637 | 0.5035464 | 0.1995488 | 0.00002556 |
| 638 | 0.4847436 | 0.1911552 | 0.00002364 |
| 639 | 0.4661939 | 0.1829744 | 2.18133E-05 |
| 640 | 0.4479 | 0.175 | 0.00002 |
| 641 | 0.4298613 | 0.1672235 | 1.81333E-05 |
| 642 | 0.412098 | 0.1596464 | 0.0000162 |
| 643 | 0.394644 | 0.1522776 | 0.0000142 |
| 644 | 0.3775333 | 0.1451259 | 1.21333E-05 |
| 645 | 0.3608 | 0.1382 | 0.00001 |
| 646 | 0.3444563 | 0.1315003 | 7.73333E-06 |
| 647 | 0.3285168 | 0.1250248 | 0.0000054 |
| 648 | 0.3130192 | 0.1187792 | 0.0000032 |
| 649 | 0.2980011 | 0.1127691 | 1.33333E-06 |
| 650 | 0.2835 | 0.107 | 0 |
| 651 | 0.2695448 | 0.1014762 | 0 |
| 652 | 0.2561184 | 0.09618864 | 0 |
| 653 | 0.2431896 | 0.09112296 | 0 |
| 654 | 0.2307272 | 0.08626485 | 0 |
| 655 | 0.2187 | 0.0816 | 0 |
| 656 | 0.2070971 | 0.07712064 | 0 |

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| 657 | 0.1959232 | 0.07282552 | 0 |
| 658 | 0.1851708 | 0.06871008 | 0 |
| 659 | 0.1748323 | 0.06476976 | 0 |
| 660 | 0.1649 | 0.061 | 0 |
| 661 | 0.1553667 | 0.05739621 | 0 |
| 662 | 0.14623 | 0.05395504 | 0 |
| 663 | 0.13749 | 0.05067376 | 0 |
| 664 | 0.1291467 | 0.04754965 | 0 |
| 665 | 0.1212 | 0.04458 | 0 |
| 666 | 0.1136397 | 0.04175872 | 0 |
| 667 | 0.106465 | 0.03908496 | 0 |
| 668 | 0.09969044 | 0.03656384 | 0 |
| 669 | 0.09333061 | 0.03420048 | 0 |
| 670 | 0.0874 | 0.032 | 0 |
| 671 | 0.08190096 | 0.02996261 | 0 |
| 672 | 0.07680428 | 0.02807664 | 0 |
| 673 | 0.07207712 | 0.02632936 | 0 |
| 674 | 0.06768664 | 0.02470805 | 0 |
| 675 | 0.0636 | 0.0232 | 0 |
| 676 | 0.05980685 | 0.02180077 | 0 |
| 677 | 0.05628216 | 0.02050112 | 0 |
| 678 | 0.05297104 | 0.01928108 | 0 |
| 679 | 0.04981861 | 0.01812069 | 0 |
| 680 | 0.04677 | 0.017 | 0 |
| 681 | 0.04378405 | 0.01590379 | 0 |
| 682 | 0.04087536 | 0.01483718 | 0 |
| 683 | 0.03807264 | 0.01381068 | 0 |
| 684 | 0.03540461 | 0.01283478 | 0 |
| 685 | 0.0329 | 0.01192 | 0 |
| 686 | 0.03056419 | 0.01106831 | 0 |
| 687 | 0.02838056 | 0.01027339 | 0 |
| 688 | 0.02634484 | 0.009533311 | 0 |
| 689 | 0.02445275 | 0.008846157 | 0 |
| 690 | 0.0227 | 0.00821 | 0 |
| 691 | 0.02108429 | 0.007623781 | 0 |
| 692 | 0.01959988 | 0.007085424 | 0 |
| 693 | 0.01823732 | 0.006591476 | 0 |
| 694 | 0.01698717 | 0.006138485 | 0 |
| 695 | 0.01584 | 0.005723 | 0 |
| 696 | 0.01479064 | 0.005343059 | 0 |
| 697 | 0.01383132 | 0.004995796 | 0 |
| 698 | 0.01294868 | 0.004676404 | 0 |
| 699 | 0.0121292 | 0.004380075 | 0 |
| 700 | 0.01135916 | 0.004102 | 0 |
| 701 | 0.01062935 | 0.003838453 | 0 |
| 702 | 0.009938846 | 0.003589099 | 0 |
| 703 | 0.009288422 | 0.003354219 | 0 |
| 704 | 0.008678854 | 0.003134093 | 0 |
| 705 | 0.008110916 | 0.002929 | 0 |
| 706 | 0.007582388 | 0.002738139 | 0 |

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| 707 | 0.007088746 | 0.002559876 | 0 |
| 708 | 0.006627313 | 0.002393244 | 0 |
| 709 | 0.006195408 | 0.002237275 | 0 |
| 710 | 0.005790346 | 0.002091 | 0 |
| 711 | 0.005409826 | 0.001953587 | 0 |
| 712 | 0.005052583 | 0.00182458 | 0 |
| 713 | 0.004717512 | 0.00170358 | 0 |
| 714 | 0.004403507 | 0.001590187 | 0 |
| 715 | 0.004109457 | 0.001484 | 0 |
| 716 | 0.003833913 | 0.001384496 | 0 |
| 717 | 0.003575748 | 0.001291268 | 0 |
| 718 | 0.003334342 | 0.001204092 | 0 |
| 719 | 0.003109075 | 0.001122744 | 0 |
| 720 | 0.002899327 | 0.001047 | 0 |
| 721 | 0.002704348 | 0.00097659 | 0 |
| 722 | 0.00252302 | 0.000911109 | 0 |
| 723 | 0.002354168 | 0.000850133 | 0 |
| 724 | 0.002196616 | 0.000793238 | 0 |
| 725 | 0.00204919 | 0.00074 | 0 |
| 726 | 0.00191096 | 0.000690083 | 0 |
| 727 | 0.001781438 | 0.00064331 | 0 |
| 728 | 0.00166011 | 0.000599496 | 0 |
| 729 | 0.001546459 | 0.000558455 | 0 |
| 730 | 0.001439971 | 0.00052 | 0 |
| 731 | 0.001340042 | 0.000483914 | 0 |
| 732 | 0.001246275 | 0.000450053 | 0 |
| 733 | 0.001158471 | 0.000418345 | 0 |
| 734 | 0.00107643 | 0.000388718 | 0 |
| 735 | 0.000999949 | 0.0003611 | 0 |
| 736 | 0.000928736 | 0.000335384 | 0 |
| 737 | 0.000862433 | 0.00031144 | 0 |
| 738 | 0.00080075 | 0.000289166 | 0 |
| 739 | 0.000743396 | 0.000268454 | 0 |
| 740 | 0.000690079 | 0.0002492 | 0 |
| 741 | 0.000640516 | 0.000231302 | 0 |
| 742 | 0.000594502 | 0.000214686 | 0 |
| 743 | 0.000551865 | 0.000199288 | 0 |
| 744 | 0.000512429 | 0.000185048 | 0 |
| 745 | 0.000476021 | 0.0001719 | 0 |
| 746 | 0.000442454 | 0.000159778 | 0 |
| 747 | 0.000411512 | 0.000148604 | 0 |
| 748 | 0.000382981 | 0.000138302 | 0 |
| 749 | 0.000356649 | 0.000128793 | 0 |
| 750 | 0.000332301 | 0.00012 | 0 |
| 751 | 0.000309759 | 0.00011186 | 0 |
| 752 | 0.000288887 | 0.000104322 | 0 |
| 753 | 0.000269539 | 9.73356E-05 | 0 |
| 754 | 0.000251568 | 9.08459E-05 | 0 |
| 755 | 0.000234826 | 0.0000848 | 0 |
| 756 | 0.000219171 | 7.91467E-05 | 0 |

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| 757 | 0.000204526 | 0.000073858 | 0 |
| 758 | 0.000190841 | 0.000068916 | 0 |
| 759 | 0.000178065 | 6.43027E-05 | 0 |
| 760 | 0.000166151 | 0.00006 | 0 |
| 761 | 0.000155024 | 5.59819E-05 | 0 |
| 762 | 0.000144622 | 5.22256E-05 | 0 |
| 763 | 0.00013491 | 4.87184E-05 | 0 |
| 764 | 0.000125852 | 4.54475E-05 | 0 |
| 765 | 0.000117413 | 0.0000424 | 0 |
| 766 | 0.000109552 | 3.9561E-05 | 0 |
| 767 | 0.000102225 | 3.69151E-05 | 0 |
| 768 | 9.53945E-05 | 3.44487E-05 | 0 |
| 769 | 8.90239E-05 | 3.21482E-05 | 0 |
| 770 | 8.30753E-05 | 0.00003 | 0 |
| 771 | 7.75127E-05 | 2.79913E-05 | 0 |
| 772 | 7.2313E-05 | 2.61136E-05 | 0 |
| 773 | 6.74578E-05 | 2.43602E-05 | 0 |
| 774 | 6.29284E-05 | 2.27246E-05 | 0 |
| 775 | 5.87065E-05 | 0.0000212 | 0 |
| 776 | 5.47703E-05 | 1.97786E-05 | 0 |
| 777 | 5.10992E-05 | 1.84529E-05 | 0 |
| 778 | 4.76765E-05 | 1.72169E-05 | 0 |
| 779 | 4.44857E-05 | 1.60646E-05 | 0 |
| 780 | 4.15099E-05 | 0.00001499 | 0 |
| 781 | 3.87332E-05 | 1.39873E-05 | 0 |
| 782 | 3.6142E-05 | 1.30516E-05 | 0 |
| 783 | 3.37235E-05 | 1.21782E-05 | 0 |
| 784 | 3.14649E-05 | 1.13625E-05 | 0 |
| 785 | 2.93533E-05 | 0.0000106 | 0 |
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| 790 | 2.06738E-05 | 7.4657E-06 | 0 |
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| 792 | 1.79664E-05 | 6.488E-06 | 0 |
| 793 | 1.67499E-05 | 6.0487E-06 | 0 |
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| 795 | 1.45598E-05 | 5.2578E-06 | 0 |
| 796 | 1.35739E-05 | 4.90177E-06 | 0 |
| 797 | 1.26544E-05 | 4.56972E-06 | 0 |
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| 800 | 1.0254E-05 | 3.7029E-06 | 0 |
| 801 | 9.55965E-06 | 3.45216E-06 | 0 |
| 802 | 8.91204E-06 | 3.2183E-06 | 0 |
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| 806 | 6.73248E-06 | 2.43122E-06 | 0 |

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| 807 | 6.27642E-06 | 2.26653E-06 | 0 |
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| 814 | 3.84172E-06 | 1.38731E-06 | 0 |
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| 819 | 2.70565E-06 | 9.77058E-07 | 0 |
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| 821 | 2.35173E-06 | 8.49251E-07 | 0 |
| 822 | 2.19242E-06 | 7.91721E-07 | 0 |
| 823 | 2.0439E-06 | 7.3809E-07 | 0 |
| 824 | 1.9055E-06 | 6.8811E-07 | 0 |
| 825 | 1.77651E-06 | 6.4153E-07 | 0 |
| 826 | 1.65622E-06 | 5.9809E-07 | 0 |
| 827 | 1.54402E-06 | 5.57575E-07 | 0 |
| 828 | 1.43944E-06 | 5.19808E-07 | 0 |
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| 830 | 1.25114E-06 | 4.5181E-07 | 0 |