

Rotational excitation of C₂H⁻ anion in collision with H₂
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(Supplementary material)

| R | I | VI(R) |
|--------|---|-----------|
| 5.250 | 0 | 1637.7148 |
| 5.500 | 0 | 960.9608 |
| 5.750 | 0 | 510.7201 |
| 6.000 | 0 | 217.2720 |
| 6.250 | 0 | 31.1449 |
| 6.500 | 0 | -82.4633 |
| 6.750 | 0 | -147.7505 |
| 7.000 | 0 | -181.4013 |
| 7.250 | 0 | -194.7615 |
| 7.500 | 0 | -195.4780 |
| 7.750 | 0 | -188.6271 |
| 8.000 | 0 | -177.5847 |
| 8.250 | 0 | -164.5130 |
| 8.500 | 0 | -150.7592 |
| 8.750 | 0 | -137.1591 |
| 9.000 | 0 | -124.1979 |
| 9.250 | 0 | -112.1506 |
| 9.500 | 0 | -101.0735 |
| 9.750 | 0 | -91.0283 |
| 10.000 | 0 | -81.9974 |
| 10.250 | 0 | -73.8962 |
| 10.500 | 0 | -66.6560 |
| 10.750 | 0 | -60.2111 |
| 11.000 | 0 | -54.4750 |
| 11.250 | 0 | -49.3616 |
| 11.500 | 0 | -44.8051 |
| 11.750 | 0 | -40.7450 |
| 12.000 | 0 | -37.1206 |
| 12.250 | 0 | -33.8753 |
| 12.500 | 0 | -30.9681 |
| 12.750 | 0 | -28.3623 |
| 13.000 | 0 | -26.0209 |
| 13.250 | 0 | -23.9097 |
| 13.500 | 0 | -22.0057 |
| 13.750 | 0 | -20.2885 |
| 14.000 | 0 | -18.7379 |
| 14.250 | 0 | -17.3344 |

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|--------|---|----------|
| 14.500 | 0 | -16.0622 |
| 14.750 | 0 | -14.9065 |
| 15.000 | 0 | -13.8524 |
| 15.250 | 0 | -12.8864 |
| 15.500 | 0 | -12.0013 |
| 15.750 | 0 | -11.1916 |
| 16.000 | 0 | -10.4513 |
| 16.250 | 0 | -9.7750 |
| 16.500 | 0 | -9.1569 |
| 16.750 | 0 | -8.5914 |
| 17.000 | 0 | -8.0726 |
| 17.250 | 0 | -7.5950 |
| 17.500 | 0 | -7.1529 |
| 17.750 | 0 | -6.7412 |
| 18.000 | 0 | -6.3576 |
| 18.250 | 0 | -6.0003 |
| 18.500 | 0 | -5.6677 |
| 18.750 | 0 | -5.3579 |
| 19.000 | 0 | -5.0693 |
| 19.250 | 0 | -4.8002 |
| 19.500 | 0 | -4.5488 |
| 19.750 | 0 | -4.3134 |
| 20.000 | 0 | -4.0923 |
| 20.250 | 0 | -3.8840 |
| 20.500 | 0 | -3.6877 |
| 20.750 | 0 | -3.5030 |
| 21.000 | 0 | -3.3294 |
| 21.250 | 0 | -3.1664 |
| 21.500 | 0 | -3.0134 |
| 21.750 | 0 | -2.8701 |
| 22.000 | 0 | -2.7358 |
| 22.250 | 0 | -2.6100 |
| 22.500 | 0 | -2.4924 |
| 22.750 | 0 | -2.3824 |
| 23.000 | 0 | -2.2794 |
| 23.250 | 0 | -2.1830 |
| 23.500 | 0 | -2.0928 |
| 23.750 | 0 | -2.0081 |
| 24.000 | 0 | -1.9285 |
| 24.250 | 0 | -1.8535 |
| 24.500 | 0 | -1.7825 |
| 24.750 | 0 | -1.7152 |
| 25.000 | 0 | -1.6510 |
| 25.250 | 0 | -1.5894 |
| 25.500 | 0 | -1.5304 |
| 25.750 | 0 | -1.4738 |
| 26.000 | 0 | -1.4195 |
| 26.250 | 0 | -1.3674 |

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|--------|---|-----------|
| 26.500 | 0 | -1.3175 |
| 26.750 | 0 | -1.2697 |
| 27.000 | 0 | -1.2238 |
| 27.250 | 0 | -1.1798 |
| 27.500 | 0 | -1.1376 |
| 27.750 | 0 | -1.0971 |
| 28.000 | 0 | -1.0582 |
| 28.250 | 0 | -1.0208 |
| 28.500 | 0 | -.9849 |
| 28.750 | 0 | -.9503 |
| 29.000 | 0 | -.9169 |
| 29.250 | 0 | -.8847 |
| 29.500 | 0 | -.8536 |
| 29.750 | 0 | -.8235 |
| 30.000 | 0 | -.7942 |
| 5.250 | 1 | -779.7907 |
| 5.500 | 1 | -498.0121 |
| 5.750 | 1 | -324.0153 |
| 6.000 | 1 | -217.7170 |
| 6.250 | 1 | -153.8710 |
| 6.500 | 1 | -116.0636 |
| 6.750 | 1 | -93.8000 |
| 7.000 | 1 | -80.5296 |
| 7.250 | 1 | -72.2087 |
| 7.500 | 1 | -66.4713 |
| 7.750 | 1 | -61.9422 |
| 8.000 | 1 | -57.9270 |
| 8.250 | 1 | -54.0891 |
| 8.500 | 1 | -50.2858 |
| 8.750 | 1 | -46.5748 |
| 9.000 | 1 | -42.8864 |
| 9.250 | 1 | -39.2867 |
| 9.500 | 1 | -35.8258 |
| 9.750 | 1 | -32.5355 |
| 10.000 | 1 | -29.4950 |
| 10.250 | 1 | -26.6725 |
| 10.500 | 1 | -24.0791 |
| 10.750 | 1 | -21.7359 |
| 11.000 | 1 | -19.6208 |
| 11.250 | 1 | -17.7048 |
| 11.500 | 1 | -15.9725 |
| 11.750 | 1 | -14.4120 |
| 12.000 | 1 | -13.0112 |
| 12.250 | 1 | -11.7579 |
| 12.500 | 1 | -10.6388 |
| 12.750 | 1 | -9.6404 |
| 13.000 | 1 | -8.7490 |
| 13.250 | 1 | -7.9518 |

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|--------|---|---------|
| 13.500 | 1 | -7.2385 |
| 13.750 | 1 | -6.5995 |
| 14.000 | 1 | -6.0253 |
| 14.250 | 1 | -5.5070 |
| 14.500 | 1 | -5.0387 |
| 14.750 | 1 | -4.6152 |
| 15.000 | 1 | -4.2312 |
| 15.250 | 1 | -3.8820 |
| 15.500 | 1 | -3.5647 |
| 15.750 | 1 | -3.2773 |
| 16.000 | 1 | -3.0172 |
| 16.250 | 1 | -2.7823 |
| 16.500 | 1 | -2.5703 |
| 16.750 | 1 | -2.3788 |
| 17.000 | 1 | -2.2056 |
| 17.250 | 1 | -2.0484 |
| 17.500 | 1 | -1.9049 |
| 17.750 | 1 | -1.7730 |
| 18.000 | 1 | -1.6519 |
| 18.250 | 1 | -1.5406 |
| 18.500 | 1 | -1.4384 |
| 18.750 | 1 | -1.3446 |
| 19.000 | 1 | -1.2583 |
| 19.250 | 1 | -1.1790 |
| 19.500 | 1 | -1.1056 |
| 19.750 | 1 | -1.0376 |
| 20.000 | 1 | -.9741 |
| 20.250 | 1 | -.9145 |
| 20.500 | 1 | -.8585 |
| 20.750 | 1 | -.8060 |
| 21.000 | 1 | -.7568 |
| 21.250 | 1 | -.7108 |
| 21.500 | 1 | -.6679 |
| 21.750 | 1 | -.6278 |
| 22.000 | 1 | -.5905 |
| 22.250 | 1 | -.5558 |
| 22.500 | 1 | -.5236 |
| 22.750 | 1 | -.4937 |
| 23.000 | 1 | -.4659 |
| 23.250 | 1 | -.4402 |
| 23.500 | 1 | -.4163 |
| 23.750 | 1 | -.3942 |
| 24.000 | 1 | -.3736 |
| 24.250 | 1 | -.3545 |
| 24.500 | 1 | -.3367 |
| 24.750 | 1 | -.3200 |
| 25.000 | 1 | -.3043 |
| 25.250 | 1 | -.2895 |

| | | |
|--------|---|-----------|
| 25.500 | 1 | -.2755 |
| 25.750 | 1 | -.2623 |
| 26.000 | 1 | -.2498 |
| 26.250 | 1 | -.2381 |
| 26.500 | 1 | -.2270 |
| 26.750 | 1 | -.2166 |
| 27.000 | 1 | -.2068 |
| 27.250 | 1 | -.1975 |
| 27.500 | 1 | -.1888 |
| 27.750 | 1 | -.1806 |
| 28.000 | 1 | -.1728 |
| 28.250 | 1 | -.1655 |
| 28.500 | 1 | -.1586 |
| 28.750 | 1 | -.1520 |
| 29.000 | 1 | -.1458 |
| 29.250 | 1 | -.1398 |
| 29.500 | 1 | -.1341 |
| 29.750 | 1 | -.1287 |
| 30.000 | 1 | -.1234 |
| 5.250 | 2 | 3949.8037 |
| 5.500 | 2 | 2639.3678 |
| 5.750 | 2 | 1742.6653 |
| 6.000 | 2 | 1134.2800 |
| 6.250 | 2 | 725.7263 |
| 6.500 | 2 | 454.3364 |
| 6.750 | 2 | 276.0965 |
| 7.000 | 2 | 160.5763 |
| 7.250 | 2 | 86.8758 |
| 7.500 | 2 | 40.7660 |
| 7.750 | 2 | 12.6507 |
| 8.000 | 2 | -3.8073 |
| 8.250 | 2 | -12.8947 |
| 8.500 | 2 | -17.4532 |
| 8.750 | 2 | -19.0598 |
| 9.000 | 2 | -19.0478 |
| 9.250 | 2 | -18.1189 |
| 9.500 | 2 | -16.7936 |
| 9.750 | 2 | -15.2402 |
| 10.000 | 2 | -13.6032 |
| 10.250 | 2 | -12.0222 |
| 10.500 | 2 | -10.5656 |
| 10.750 | 2 | -9.2730 |
| 11.000 | 2 | -8.1371 |
| 11.250 | 2 | -7.1399 |
| 11.500 | 2 | -6.2656 |
| 11.750 | 2 | -5.4992 |
| 12.000 | 2 | -4.8255 |
| 12.250 | 2 | -4.2310 |

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|--------|---|---------|
| 12.500 | 2 | -3.7087 |
| 12.750 | 2 | -3.2527 |
| 13.000 | 2 | -2.8575 |
| 13.250 | 2 | -2.5171 |
| 13.500 | 2 | -2.2238 |
| 13.750 | 2 | -1.9696 |
| 14.000 | 2 | -1.7463 |
| 14.250 | 2 | -1.5471 |
| 14.500 | 2 | -1.3690 |
| 14.750 | 2 | -1.2104 |
| 15.000 | 2 | -1.0694 |
| 15.250 | 2 | -.9446 |
| 15.500 | 2 | -.8345 |
| 15.750 | 2 | -.7379 |
| 16.000 | 2 | -.6537 |
| 16.250 | 2 | -.5805 |
| 16.500 | 2 | -.5171 |
| 16.750 | 2 | -.4624 |
| 17.000 | 2 | -.4151 |
| 17.250 | 2 | -.3739 |
| 17.500 | 2 | -.3377 |
| 17.750 | 2 | -.3054 |
| 18.000 | 2 | -.2765 |
| 18.250 | 2 | -.2508 |
| 18.500 | 2 | -.2280 |
| 18.750 | 2 | -.2078 |
| 19.000 | 2 | -.1900 |
| 19.250 | 2 | -.1742 |
| 19.500 | 2 | -.1602 |
| 19.750 | 2 | -.1478 |
| 20.000 | 2 | -.1366 |
| 20.250 | 2 | -.1264 |
| 20.500 | 2 | -.1172 |
| 20.750 | 2 | -.1088 |
| 21.000 | 2 | -.1012 |
| 21.250 | 2 | -.0944 |
| 21.500 | 2 | -.0884 |
| 21.750 | 2 | -.0830 |
| 22.000 | 2 | -.0782 |
| 22.250 | 2 | -.0740 |
| 22.500 | 2 | -.0703 |
| 22.750 | 2 | -.0670 |
| 23.000 | 2 | -.0642 |
| 23.250 | 2 | -.0617 |
| 23.500 | 2 | -.0596 |
| 23.750 | 2 | -.0577 |
| 24.000 | 2 | -.0560 |
| 24.250 | 2 | -.0544 |

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|--------|---|------------|
| 24.500 | 2 | -.0530 |
| 24.750 | 2 | -.0516 |
| 25.000 | 2 | -.0502 |
| 25.250 | 2 | -.0488 |
| 25.500 | 2 | -.0473 |
| 25.750 | 2 | -.0458 |
| 26.000 | 2 | -.0442 |
| 26.250 | 2 | -.0427 |
| 26.500 | 2 | -.0411 |
| 26.750 | 2 | -.0394 |
| 27.000 | 2 | -.0378 |
| 27.250 | 2 | -.0362 |
| 27.500 | 2 | -.0345 |
| 27.750 | 2 | -.0329 |
| 28.000 | 2 | -.0312 |
| 28.250 | 2 | -.0296 |
| 28.500 | 2 | -.0280 |
| 28.750 | 2 | -.0264 |
| 29.000 | 2 | -.0248 |
| 29.250 | 2 | -.0233 |
| 29.500 | 2 | -.0218 |
| 29.750 | 2 | -.0204 |
| 30.000 | 2 | -.0190 |
| 5.250 | 3 | -1296.4319 |
| 5.500 | 3 | -810.5033 |
| 5.750 | 3 | -501.4089 |
| 6.000 | 3 | -305.4537 |
| 6.250 | 3 | -182.8931 |
| 6.500 | 3 | -107.5906 |
| 6.750 | 3 | -62.3177 |
| 7.000 | 3 | -35.8000 |
| 7.250 | 3 | -20.8165 |
| 7.500 | 3 | -12.6945 |
| 7.750 | 3 | -8.5713 |
| 8.000 | 3 | -6.6083 |
| 8.250 | 3 | -5.7542 |
| 8.500 | 3 | -5.4122 |
| 8.750 | 3 | -5.3650 |
| 9.000 | 3 | -5.3076 |
| 9.250 | 3 | -5.1685 |
| 9.500 | 3 | -4.9961 |
| 9.750 | 3 | -4.7468 |
| 10.000 | 3 | -4.4091 |
| 10.250 | 3 | -4.0624 |
| 10.500 | 3 | -3.7223 |
| 10.750 | 3 | -3.3845 |
| 11.000 | 3 | -3.0542 |
| 11.250 | 3 | -2.7384 |

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|--------|---|---------|
| 11.500 | 3 | -2.4424 |
| 11.750 | 3 | -2.1711 |
| 12.000 | 3 | -1.9293 |
| 12.250 | 3 | -1.7198 |
| 12.500 | 3 | -1.5373 |
| 12.750 | 3 | -1.3743 |
| 13.000 | 3 | -1.2235 |
| 13.250 | 3 | -1.0795 |
| 13.500 | 3 | -.9445 |
| 13.750 | 3 | -.8227 |
| 14.000 | 3 | -.7184 |
| 14.250 | 3 | -.6343 |
| 14.500 | 3 | -.5678 |
| 14.750 | 3 | -.5146 |
| 15.000 | 3 | -.4706 |
| 15.250 | 3 | -.4323 |
| 15.500 | 3 | -.3985 |
| 15.750 | 3 | -.3688 |
| 16.000 | 3 | -.3427 |
| 16.250 | 3 | -.3197 |
| 16.500 | 3 | -.2992 |
| 16.750 | 3 | -.2808 |
| 17.000 | 3 | -.2640 |
| 17.250 | 3 | -.2482 |
| 17.500 | 3 | -.2331 |
| 17.750 | 3 | -.2182 |
| 18.000 | 3 | -.2034 |
| 18.250 | 3 | -.1889 |
| 18.500 | 3 | -.1747 |
| 18.750 | 3 | -.1609 |
| 19.000 | 3 | -.1475 |
| 19.250 | 3 | -.1348 |
| 19.500 | 3 | -.1226 |
| 19.750 | 3 | -.1112 |
| 20.000 | 3 | -.1005 |
| 20.250 | 3 | -.0907 |
| 20.500 | 3 | -.0817 |
| 20.750 | 3 | -.0735 |
| 21.000 | 3 | -.0660 |
| 21.250 | 3 | -.0592 |
| 21.500 | 3 | -.0531 |
| 21.750 | 3 | -.0476 |
| 22.000 | 3 | -.0427 |
| 22.250 | 3 | -.0383 |
| 22.500 | 3 | -.0344 |
| 22.750 | 3 | -.0310 |
| 23.000 | 3 | -.0279 |
| 23.250 | 3 | -.0253 |

| | | |
|--------|---|-----------|
| 23.500 | 3 | -.0230 |
| 23.750 | 3 | -.0211 |
| 24.000 | 3 | -.0193 |
| 24.250 | 3 | -.0178 |
| 24.500 | 3 | -.0165 |
| 24.750 | 3 | -.0154 |
| 25.000 | 3 | -.0143 |
| 25.250 | 3 | -.0133 |
| 25.500 | 3 | -.0124 |
| 25.750 | 3 | -.0115 |
| 26.000 | 3 | -.0107 |
| 26.250 | 3 | -.0099 |
| 26.500 | 3 | -.0092 |
| 26.750 | 3 | -.0085 |
| 27.000 | 3 | -.0079 |
| 27.250 | 3 | -.0073 |
| 27.500 | 3 | -.0068 |
| 27.750 | 3 | -.0063 |
| 28.000 | 3 | -.0059 |
| 28.250 | 3 | -.0054 |
| 28.500 | 3 | -.0050 |
| 28.750 | 3 | -.0047 |
| 29.000 | 3 | -.0043 |
| 29.250 | 3 | -.0040 |
| 29.500 | 3 | -.0037 |
| 29.750 | 3 | -.0034 |
| 30.000 | 3 | -.0032 |
| 5.250 | 4 | 2251.6612 |
| 5.500 | 4 | 1487.3122 |
| 5.750 | 4 | 979.0631 |
| 6.000 | 4 | 640.5275 |
| 6.250 | 4 | 416.0887 |
| 6.500 | 4 | 268.0061 |
| 6.750 | 4 | 170.9411 |
| 7.000 | 4 | 107.7834 |
| 7.250 | 4 | 67.0534 |
| 7.500 | 4 | 41.0515 |
| 7.750 | 4 | 24.6192 |
| 8.000 | 4 | 14.3100 |
| 8.250 | 4 | 7.9871 |
| 8.500 | 4 | 4.0940 |
| 8.750 | 4 | 1.8745 |
| 9.000 | 4 | .5262 |
| 9.250 | 4 | -.1919 |
| 9.500 | 4 | -.4752 |
| 9.750 | 4 | -.6565 |
| 10.000 | 4 | -.6727 |
| 10.250 | 4 | -.6336 |

| | | |
|--------|---|--------|
| 10.500 | 4 | -.5692 |
| 10.750 | 4 | -.4756 |
| 11.000 | 4 | -.3808 |
| 11.250 | 4 | -.3132 |
| 11.500 | 4 | -.2699 |
| 11.750 | 4 | -.2405 |
| 12.000 | 4 | -.2143 |
| 12.250 | 4 | -.1833 |
| 12.500 | 4 | -.1496 |
| 12.750 | 4 | -.1178 |
| 13.000 | 4 | -.0925 |
| 13.250 | 4 | -.0771 |
| 13.500 | 4 | -.0702 |
| 13.750 | 4 | -.0694 |
| 14.000 | 4 | -.0721 |
| 14.250 | 4 | -.0759 |
| 14.500 | 4 | -.0796 |
| 14.750 | 4 | -.0822 |
| 15.000 | 4 | -.0824 |
| 15.250 | 4 | -.0796 |
| 15.500 | 4 | -.0741 |
| 15.750 | 4 | -.0663 |
| 16.000 | 4 | -.0568 |
| 16.250 | 4 | -.0461 |
| 16.500 | 4 | -.0348 |
| 16.750 | 4 | -.0235 |
| 17.000 | 4 | -.0127 |
| 17.250 | 4 | -.0029 |
| 17.500 | 4 | .0053 |
| 17.750 | 4 | .0115 |
| 18.000 | 4 | .0158 |
| 18.250 | 4 | .0185 |
| 18.500 | 4 | .0198 |
| 18.750 | 4 | .0198 |
| 19.000 | 4 | .0190 |
| 19.250 | 4 | .0174 |
| 19.500 | 4 | .0153 |
| 19.750 | 4 | .0130 |
| 20.000 | 4 | .0107 |
| 20.250 | 4 | .0086 |
| 20.500 | 4 | .0067 |
| 20.750 | 4 | .0049 |
| 21.000 | 4 | .0034 |
| 21.250 | 4 | .0021 |
| 21.500 | 4 | .0009 |
| 21.750 | 4 | -.0001 |
| 22.000 | 4 | -.0009 |
| 22.250 | 4 | -.0016 |

| | | |
|--------|---|------------|
| 22.500 | 4 | -.0022 |
| 22.750 | 4 | -.0026 |
| 23.000 | 4 | -.0030 |
| 23.250 | 4 | -.0032 |
| 23.500 | 4 | -.0034 |
| 23.750 | 4 | -.0035 |
| 24.000 | 4 | -.0035 |
| 24.250 | 4 | -.0035 |
| 24.500 | 4 | -.0034 |
| 24.750 | 4 | -.0034 |
| 25.000 | 4 | -.0032 |
| 25.250 | 4 | -.0031 |
| 25.500 | 4 | -.0030 |
| 25.750 | 4 | -.0028 |
| 26.000 | 4 | -.0027 |
| 26.250 | 4 | -.0025 |
| 26.500 | 4 | -.0024 |
| 26.750 | 4 | -.0022 |
| 27.000 | 4 | -.0021 |
| 27.250 | 4 | -.0019 |
| 27.500 | 4 | -.0017 |
| 27.750 | 4 | -.0015 |
| 28.000 | 4 | -.0014 |
| 28.250 | 4 | -.0012 |
| 28.500 | 4 | -.0010 |
| 28.750 | 4 | -.0008 |
| 29.000 | 4 | -.0006 |
| 29.250 | 4 | -.0005 |
| 29.500 | 4 | -.0003 |
| 29.750 | 4 | -.0001 |
| 30.000 | 4 | .0001 |
| 5.250 | 5 | -1034.5417 |
| 5.500 | 5 | -663.5585 |
| 5.750 | 5 | -427.1985 |
| 6.000 | 5 | -273.9745 |
| 6.250 | 5 | -174.6811 |
| 6.500 | 5 | -110.4919 |
| 6.750 | 5 | -69.1500 |
| 7.000 | 5 | -42.7718 |
| 7.250 | 5 | -26.1563 |
| 7.500 | 5 | -15.7528 |
| 7.750 | 5 | -9.3828 |
| 8.000 | 5 | -5.5109 |
| 8.250 | 5 | -3.2281 |
| 8.500 | 5 | -1.7367 |
| 8.750 | 5 | -1.0432 |
| 9.000 | 5 | -.5780 |
| 9.250 | 5 | -.3488 |

| | | |
|--------|---|--------|
| 9.500 | 5 | -.1556 |
| 9.750 | 5 | -.1563 |
| 10.000 | 5 | -.1034 |
| 10.250 | 5 | -.0971 |
| 10.500 | 5 | -.1331 |
| 10.750 | 5 | -.1559 |
| 11.000 | 5 | -.1580 |
| 11.250 | 5 | -.1442 |
| 11.500 | 5 | -.1199 |
| 11.750 | 5 | -.0910 |
| 12.000 | 5 | -.0631 |
| 12.250 | 5 | -.0411 |
| 12.500 | 5 | -.0253 |
| 12.750 | 5 | -.0153 |
| 13.000 | 5 | -.0105 |
| 13.250 | 5 | -.0100 |
| 13.500 | 5 | -.0109 |
| 13.750 | 5 | -.0102 |
| 14.000 | 5 | -.0046 |
| 14.250 | 5 | .0081 |
| 14.500 | 5 | .0256 |
| 14.750 | 5 | .0448 |
| 15.000 | 5 | .0625 |
| 15.250 | 5 | .0762 |
| 15.500 | 5 | .0858 |
| 15.750 | 5 | .0916 |
| 16.000 | 5 | .0943 |
| 16.250 | 5 | .0942 |
| 16.500 | 5 | .0920 |
| 16.750 | 5 | .0881 |
| 17.000 | 5 | .0829 |
| 17.250 | 5 | .0771 |
| 17.500 | 5 | .0710 |
| 17.750 | 5 | .0651 |
| 18.000 | 5 | .0595 |
| 18.250 | 5 | .0542 |
| 18.500 | 5 | .0491 |
| 18.750 | 5 | .0443 |
| 19.000 | 5 | .0399 |
| 19.250 | 5 | .0357 |
| 19.500 | 5 | .0319 |
| 19.750 | 5 | .0283 |
| 20.000 | 5 | .0251 |
| 20.250 | 5 | .0222 |
| 20.500 | 5 | .0195 |
| 20.750 | 5 | .0172 |
| 21.000 | 5 | .0151 |
| 21.250 | 5 | .0133 |

| | | |
|--------|---|----------|
| 21.500 | 5 | .0117 |
| 21.750 | 5 | .0104 |
| 22.000 | 5 | .0092 |
| 22.250 | 5 | .0082 |
| 22.500 | 5 | .0074 |
| 22.750 | 5 | .0067 |
| 23.000 | 5 | .0061 |
| 23.250 | 5 | .0057 |
| 23.500 | 5 | .0054 |
| 23.750 | 5 | .0051 |
| 24.000 | 5 | .0049 |
| 24.250 | 5 | .0047 |
| 24.500 | 5 | .0046 |
| 24.750 | 5 | .0044 |
| 25.000 | 5 | .0043 |
| 25.250 | 5 | .0041 |
| 25.500 | 5 | .0039 |
| 25.750 | 5 | .0037 |
| 26.000 | 5 | .0034 |
| 26.250 | 5 | .0032 |
| 26.500 | 5 | .0029 |
| 26.750 | 5 | .0026 |
| 27.000 | 5 | .0023 |
| 27.250 | 5 | .0020 |
| 27.500 | 5 | .0016 |
| 27.750 | 5 | .0013 |
| 28.000 | 5 | .0009 |
| 28.250 | 5 | .0006 |
| 28.500 | 5 | .0002 |
| 28.750 | 5 | -.0001 |
| 29.000 | 5 | -.0005 |
| 29.250 | 5 | -.0008 |
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| 29.750 | 5 | -.0015 |
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| 5.250 | 6 | 897.5629 |
| 5.500 | 6 | 567.1025 |
| 5.750 | 6 | 362.4928 |
| 6.000 | 6 | 232.3053 |
| 6.250 | 6 | 148.9237 |
| 6.500 | 6 | 95.3231 |
| 6.750 | 6 | 60.7329 |
| 7.000 | 6 | 38.4798 |
| 7.250 | 6 | 24.1870 |
| 7.500 | 6 | 15.1106 |
| 7.750 | 6 | 9.3120 |
| 8.000 | 6 | 5.6937 |
| 8.250 | 6 | 3.4827 |

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| 8.500 | 6 | 1.9272 |
| 8.750 | 6 | 1.1759 |
| 9.000 | 6 | .6747 |
| 9.250 | 6 | .3806 |
| 9.500 | 6 | .1543 |
| 9.750 | 6 | .1257 |
| 10.000 | 6 | .0598 |
| 10.250 | 6 | -.0005 |
| 10.500 | 6 | -.0283 |
| 10.750 | 6 | -.0321 |
| 11.000 | 6 | -.0304 |
| 11.250 | 6 | -.0396 |
| 11.500 | 6 | -.0588 |
| 11.750 | 6 | -.0825 |
| 12.000 | 6 | -.1055 |
| 12.250 | 6 | -.1229 |
| 12.500 | 6 | -.1332 |
| 12.750 | 6 | -.1352 |
| 13.000 | 6 | -.1282 |
| 13.250 | 6 | -.1119 |
| 13.500 | 6 | -.0897 |
| 13.750 | 6 | -.0659 |
| 14.000 | 6 | -.0446 |
| 14.250 | 6 | -.0292 |
| 14.500 | 6 | -.0196 |
| 14.750 | 6 | -.0149 |
| 15.000 | 6 | -.0142 |
| 15.250 | 6 | -.0166 |
| 15.500 | 6 | -.0215 |
| 15.750 | 6 | -.0284 |
| 16.000 | 6 | -.0367 |
| 16.250 | 6 | -.0459 |
| 16.500 | 6 | -.0553 |
| 16.750 | 6 | -.0645 |
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| 17.750 | 6 | -.0876 |
| 18.000 | 6 | -.0882 |
| 18.250 | 6 | -.0869 |
| 18.500 | 6 | -.0840 |
| 18.750 | 6 | -.0798 |
| 19.000 | 6 | -.0746 |
| 19.250 | 6 | -.0688 |
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| 19.750 | 6 | -.0562 |
| 20.000 | 6 | -.0500 |
| 20.250 | 6 | -.0444 |

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| 20.750 | 6 | -.0345 |
| 21.000 | 6 | -.0302 |
| 21.250 | 6 | -.0263 |
| 21.500 | 6 | -.0228 |
| 21.750 | 6 | -.0197 |
| 22.000 | 6 | -.0170 |
| 22.250 | 6 | -.0145 |
| 22.500 | 6 | -.0124 |
| 22.750 | 6 | -.0105 |
| 23.000 | 6 | -.0089 |
| 23.250 | 6 | -.0075 |
| 23.500 | 6 | -.0063 |
| 23.750 | 6 | -.0052 |
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| 24.250 | 6 | -.0037 |
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| 24.750 | 6 | -.0025 |
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| 25.500 | 6 | -.0012 |
| 25.750 | 6 | -.0008 |
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| 26.750 | 6 | .0003 |
| 27.000 | 6 | .0005 |
| 27.250 | 6 | .0007 |
| 27.500 | 6 | .0009 |
| 27.750 | 6 | .0010 |
| 28.000 | 6 | .0012 |
| 28.250 | 6 | .0013 |
| 28.500 | 6 | .0014 |
| 28.750 | 6 | .0015 |
| 29.000 | 6 | .0015 |
| 29.250 | 6 | .0016 |
| 29.500 | 6 | .0016 |
| 29.750 | 6 | .0017 |
| 30.000 | 6 | .0017 |
| 5.250 | 7 | -481.1059 |
| 5.500 | 7 | -291.6166 |
| 5.750 | 7 | -181.6207 |
| 6.000 | 7 | -114.2237 |
| 6.250 | 7 | -72.3330 |
| 6.500 | 7 | -45.8880 |
| 6.750 | 7 | -28.9961 |
| 7.000 | 7 | -18.2370 |
| 7.250 | 7 | -11.3893 |

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| 7.500 | 7 | -7.0513 |
| 7.750 | 7 | -4.3241 |
| 8.000 | 7 | -2.6190 |
| 8.250 | 7 | -1.6044 |
| 8.500 | 7 | -.8370 |
| 8.750 | 7 | -.5997 |
| 9.000 | 7 | -.3260 |
| 9.250 | 7 | -.2108 |
| 9.500 | 7 | -.2257 |
| 9.750 | 7 | -.0971 |
| 10.000 | 7 | -.1043 |
| 10.250 | 7 | -.0855 |
| 10.500 | 7 | -.0298 |
| 10.750 | 7 | .0056 |
| 11.000 | 7 | .0238 |
| 11.250 | 7 | .0402 |
| 11.500 | 7 | .0566 |
| 11.750 | 7 | .0716 |
| 12.000 | 7 | .0839 |
| 12.250 | 7 | .0923 |
| 12.500 | 7 | .0963 |
| 12.750 | 7 | .0957 |
| 13.000 | 7 | .0902 |
| 13.250 | 7 | .0796 |
| 13.500 | 7 | .0644 |
| 13.750 | 7 | .0450 |
| 14.000 | 7 | .0218 |
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| 15.750 | 7 | -.0795 |
| 16.000 | 7 | -.0705 |
| 16.250 | 7 | -.0575 |
| 16.500 | 7 | -.0420 |
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| 17.000 | 7 | -.0078 |
| 17.250 | 7 | .0084 |
| 17.500 | 7 | .0224 |
| 17.750 | 7 | .0333 |
| 18.000 | 7 | .0411 |
| 18.250 | 7 | .0462 |
| 18.500 | 7 | .0489 |
| 18.750 | 7 | .0498 |
| 19.000 | 7 | .0491 |
| 19.250 | 7 | .0471 |

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| 19.500 | 7 | .0444 |
| 19.750 | 7 | .0412 |
| 20.000 | 7 | .0379 |
| 20.250 | 7 | .0348 |
| 20.500 | 7 | .0320 |
| 20.750 | 7 | .0295 |
| 21.000 | 7 | .0271 |
| 21.250 | 7 | .0250 |
| 21.500 | 7 | .0232 |
| 21.750 | 7 | .0215 |
| 22.000 | 7 | .0200 |
| 22.250 | 7 | .0186 |
| 22.500 | 7 | .0174 |
| 22.750 | 7 | .0164 |
| 23.000 | 7 | .0154 |
| 23.250 | 7 | .0146 |
| 23.500 | 7 | .0138 |
| 23.750 | 7 | .0132 |
| 24.000 | 7 | .0126 |
| 24.250 | 7 | .0120 |
| 24.500 | 7 | .0115 |
| 24.750 | 7 | .0109 |
| 25.000 | 7 | .0104 |
| 25.250 | 7 | .0099 |
| 25.500 | 7 | .0093 |
| 25.750 | 7 | .0088 |
| 26.000 | 7 | .0082 |
| 26.250 | 7 | .0076 |
| 26.500 | 7 | .0071 |
| 26.750 | 7 | .0065 |
| 27.000 | 7 | .0059 |
| 27.250 | 7 | .0053 |
| 27.500 | 7 | .0048 |
| 27.750 | 7 | .0042 |
| 28.000 | 7 | .0036 |
| 28.250 | 7 | .0031 |
| 28.500 | 7 | .0025 |
| 28.750 | 7 | .0020 |
| 29.000 | 7 | .0015 |
| 29.250 | 7 | .0010 |
| 29.500 | 7 | .0005 |
| 29.750 | 7 | .0000 |
| 30.000 | 7 | -.0004 |
| 5.250 | 8 | 346.6572 |
| 5.500 | 8 | 197.3724 |
| 5.750 | 8 | 117.5926 |
| 6.000 | 8 | 71.2361 |
| 6.250 | 8 | 43.8827 |

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| 6.500 | 8 | 27.3108 |
| 6.750 | 8 | 17.0492 |
| 7.000 | 8 | 10.6117 |
| 7.250 | 8 | 6.6534 |
| 7.500 | 8 | 4.1150 |
| 7.750 | 8 | 2.5431 |
| 8.000 | 8 | 1.5754 |
| 8.250 | 8 | .9359 |
| 8.500 | 8 | .3689 |
| 8.750 | 8 | .3550 |
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| 9.250 | 8 | .1481 |
| 9.500 | 8 | .1821 |
| 9.750 | 8 | .1752 |
| 10.000 | 8 | .1258 |
| 10.250 | 8 | .1159 |
| 10.500 | 8 | .1190 |
| 10.750 | 8 | .0910 |
| 11.000 | 8 | .0491 |
| 11.250 | 8 | .0198 |
| 11.500 | 8 | .0055 |
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| 15.000 | 8 | .0562 |
| 15.250 | 8 | .0641 |
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| 15.750 | 8 | .0713 |
| 16.000 | 8 | .0715 |
| 16.250 | 8 | .0698 |
| 16.500 | 8 | .0666 |
| 16.750 | 8 | .0624 |
| 17.000 | 8 | .0575 |
| 17.250 | 8 | .0522 |
| 17.500 | 8 | .0471 |
| 17.750 | 8 | .0422 |
| 18.000 | 8 | .0378 |
| 18.250 | 8 | .0338 |

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| 18.500 | 8 | .0301 |
| 18.750 | 8 | .0268 |
| 19.000 | 8 | .0237 |
| 19.250 | 8 | .0209 |
| 19.500 | 8 | .0183 |
| 19.750 | 8 | .0159 |
| 20.000 | 8 | .0137 |
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| 20.750 | 8 | .0078 |
| 21.000 | 8 | .0061 |
| 21.250 | 8 | .0046 |
| 21.500 | 8 | .0031 |
| 21.750 | 8 | .0018 |
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| 23.250 | 8 | -.0038 |
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| 25.750 | 8 | -.0060 |
| 26.000 | 8 | -.0058 |
| 26.250 | 8 | -.0056 |
| 26.500 | 8 | -.0054 |
| 26.750 | 8 | -.0051 |
| 27.000 | 8 | -.0047 |
| 27.250 | 8 | -.0043 |
| 27.500 | 8 | -.0039 |
| 27.750 | 8 | -.0035 |
| 28.000 | 8 | -.0030 |
| 28.250 | 8 | -.0025 |
| 28.500 | 8 | -.0021 |
| 28.750 | 8 | -.0016 |
| 29.000 | 8 | -.0011 |
| 29.250 | 8 | -.0006 |
| 29.500 | 8 | -.0001 |
| 29.750 | 8 | .0004 |
| 30.000 | 8 | .0009 |
| 5.250 | 9 | -217.7613 |

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| 5.500 | 9 | -114.1183 |
| 5.750 | 9 | -64.3094 |
| 6.000 | 9 | -37.1029 |
| 6.250 | 9 | -22.0121 |
| 6.500 | 9 | -13.4215 |
| 6.750 | 9 | -8.2992 |
| 7.000 | 9 | -5.1637 |
| 7.250 | 9 | -3.1938 |
| 7.500 | 9 | -1.9961 |
| 7.750 | 9 | -1.2748 |
| 8.000 | 9 | -.7849 |
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| 13.750 | 9 | -.0822 |
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| 14.250 | 9 | -.0223 |
| 14.500 | 9 | .0037 |
| 14.750 | 9 | .0249 |
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| 15.250 | 9 | .0482 |
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| 15.750 | 9 | .0461 |
| 16.000 | 9 | .0380 |
| 16.250 | 9 | .0267 |
| 16.500 | 9 | .0131 |
| 16.750 | 9 | -.0017 |
| 17.000 | 9 | -.0167 |
| 17.250 | 9 | -.0308 |

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| 17.750 | 9 | -.0523 |
| 18.000 | 9 | -.0591 |
| 18.250 | 9 | -.0634 |
| 18.500 | 9 | -.0656 |
| 18.750 | 9 | -.0661 |
| 19.000 | 9 | -.0651 |
| 19.250 | 9 | -.0630 |
| 19.500 | 9 | -.0599 |
| 19.750 | 9 | -.0563 |
| 20.000 | 9 | -.0525 |
| 20.250 | 9 | -.0486 |
| 20.500 | 9 | -.0448 |
| 20.750 | 9 | -.0410 |
| 21.000 | 9 | -.0373 |
| 21.250 | 9 | -.0337 |
| 21.500 | 9 | -.0302 |
| 21.750 | 9 | -.0268 |
| 22.000 | 9 | -.0234 |
| 22.250 | 9 | -.0202 |
| 22.500 | 9 | -.0172 |
| 22.750 | 9 | -.0142 |
| 23.000 | 9 | -.0114 |
| 23.250 | 9 | -.0088 |
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| 23.750 | 9 | -.0040 |
| 24.000 | 9 | -.0019 |
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| 24.750 | 9 | .0032 |
| 25.000 | 9 | .0044 |
| 25.250 | 9 | .0055 |
| 25.500 | 9 | .0063 |
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| 26.000 | 9 | .0073 |
| 26.250 | 9 | .0075 |
| 26.500 | 9 | .0076 |
| 26.750 | 9 | .0075 |
| 27.000 | 9 | .0072 |
| 27.250 | 9 | .0069 |
| 27.500 | 9 | .0064 |
| 27.750 | 9 | .0058 |
| 28.000 | 9 | .0052 |
| 28.250 | 9 | .0044 |
| 28.500 | 9 | .0036 |
| 28.750 | 9 | .0028 |
| 29.000 | 9 | .0019 |
| 29.250 | 9 | .0011 |

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| 29.750 | 9 | -.0007 |
| 30.000 | 9 | -.0016 |
| 30.250 | 9 | -.0024 |
| 30.500 | 9 | -.0032 |
| 30.750 | 9 | -.0039 |
| 31.000 | 9 | -.0046 |
| 31.250 | 9 | -.0053 |
| 31.500 | 9 | -.0060 |
| 31.750 | 9 | -.0066 |
| 32.000 | 9 | -.0072 |
| 32.250 | 9 | -.0077 |
| 32.500 | 9 | -.0082 |
| 32.750 | 9 | -.0087 |
| 33.000 | 9 | -.0092 |
| 5.250 | 10 | 197.7597 |
| 5.500 | 10 | 91.5781 |
| 5.750 | 10 | 46.9772 |
| 6.000 | 10 | 24.5980 |
| 6.250 | 10 | 13.4385 |
| 6.500 | 10 | 7.6987 |
| 6.750 | 10 | 4.5270 |
| 7.000 | 10 | 2.7657 |
| 7.250 | 10 | 1.7013 |
| 7.500 | 10 | 1.0356 |
| 7.750 | 10 | .6836 |
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| 8.250 | 10 | .2545 |
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| 9.000 | 10 | .0554 |
| 9.250 | 10 | .0281 |
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| 10.500 | 10 | .0142 |
| 10.750 | 10 | .0287 |
| 11.000 | 10 | .0401 |
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| 12.000 | 10 | .0712 |
| 12.250 | 10 | .0800 |
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| 12.750 | 10 | .0929 |
| 13.000 | 10 | .0921 |
| 13.250 | 10 | .0838 |

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| 13.750 | 10 | .0489 |
| 14.000 | 10 | .0254 |
| 14.250 | 10 | .0001 |
| 14.500 | 10 | -.0249 |
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| 15.000 | 10 | -.0640 |
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| 15.500 | 10 | -.0772 |
| 15.750 | 10 | -.0749 |
| 16.000 | 10 | -.0681 |
| 16.250 | 10 | -.0577 |
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| 16.750 | 10 | -.0307 |
| 17.000 | 10 | -.0161 |
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| 17.500 | 10 | .0101 |
| 17.750 | 10 | .0199 |
| 18.000 | 10 | .0272 |
| 18.250 | 10 | .0323 |
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| 18.750 | 10 | .0371 |
| 19.000 | 10 | .0374 |
| 19.250 | 10 | .0365 |
| 19.500 | 10 | .0348 |
| 19.750 | 10 | .0325 |
| 20.000 | 10 | .0299 |
| 20.250 | 10 | .0273 |
| 20.500 | 10 | .0246 |
| 20.750 | 10 | .0219 |
| 21.000 | 10 | .0193 |
| 21.250 | 10 | .0166 |
| 21.500 | 10 | .0140 |
| 21.750 | 10 | .0114 |
| 22.000 | 10 | .0089 |
| 22.250 | 10 | .0064 |
| 22.500 | 10 | .0041 |
| 22.750 | 10 | .0018 |
| 23.000 | 10 | -.0004 |
| 23.250 | 10 | -.0025 |
| 23.500 | 10 | -.0045 |
| 23.750 | 10 | -.0063 |
| 24.000 | 10 | -.0080 |
| 24.250 | 10 | -.0095 |
| 24.500 | 10 | -.0109 |
| 24.750 | 10 | -.0120 |
| 25.000 | 10 | -.0130 |
| 25.250 | 10 | -.0138 |

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| 25.750 | 10 | -.0148 |
| 26.000 | 10 | -.0150 |
| 26.250 | 10 | -.0151 |
| 26.500 | 10 | -.0151 |
| 26.750 | 10 | -.0149 |
| 27.000 | 10 | -.0146 |
| 27.250 | 10 | -.0141 |
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| 27.750 | 10 | -.0130 |
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| 28.250 | 10 | -.0116 |
| 28.500 | 10 | -.0108 |
| 28.750 | 10 | -.0100 |
| 29.000 | 10 | -.0092 |
| 29.250 | 10 | -.0083 |
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| 29.750 | 10 | -.0066 |
| 30.000 | 10 | -.0058 |
| 5.250 | 11 | -203.2202 |
| 5.500 | 11 | -85.6728 |
| 5.750 | 11 | -40.9156 |
| 6.000 | 11 | -19.5549 |
| 6.250 | 11 | -9.7463 |
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| 6.750 | 11 | -2.8603 |
| 7.000 | 11 | -1.6512 |
| 7.250 | 11 | -1.0504 |
| 7.500 | 11 | -.6390 |
| 7.750 | 11 | -.3516 |
| 8.000 | 11 | -.1833 |
| 8.250 | 11 | -.1405 |
| 8.500 | 11 | .4761 |
| 8.750 | 11 | -.0762 |
| 9.000 | 11 | -.0322 |
| 9.250 | 11 | .0118 |
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| 10.500 | 11 | .1102 |
| 10.750 | 11 | .1148 |
| 11.000 | 11 | .1178 |
| 11.250 | 11 | .1054 |
| 11.500 | 11 | .0823 |
| 11.750 | 11 | .0577 |
| 12.000 | 11 | .0411 |
| 12.250 | 11 | .0389 |

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| 13.000 | 11 | .0662 |
| 13.250 | 11 | .0650 |
| 13.500 | 11 | .0561 |
| 13.750 | 11 | .0428 |
| 14.000 | 11 | .0279 |
| 14.250 | 11 | .0141 |
| 14.500 | 11 | .0023 |
| 14.750 | 11 | -.0073 |
| 15.000 | 11 | -.0143 |
| 15.250 | 11 | -.0184 |
| 15.500 | 11 | -.0199 |
| 15.750 | 11 | -.0191 |
| 16.000 | 11 | -.0166 |
| 16.250 | 11 | -.0126 |
| 16.500 | 11 | -.0076 |
| 16.750 | 11 | -.0021 |
| 17.000 | 11 | .0037 |
| 17.250 | 11 | .0093 |
| 17.500 | 11 | .0142 |
| 17.750 | 11 | .0182 |
| 18.000 | 11 | .0213 |
| 18.250 | 11 | .0236 |
| 18.500 | 11 | .0252 |
| 18.750 | 11 | .0262 |
| 19.000 | 11 | .0267 |
| 19.250 | 11 | .0268 |
| 19.500 | 11 | .0267 |
| 19.750 | 11 | .0263 |
| 20.000 | 11 | .0258 |
| 20.250 | 11 | .0253 |
| 20.500 | 11 | .0249 |
| 20.750 | 11 | .0244 |
| 21.000 | 11 | .0240 |
| 21.250 | 11 | .0235 |
| 21.500 | 11 | .0231 |
| 21.750 | 11 | .0226 |
| 22.000 | 11 | .0222 |
| 22.250 | 11 | .0217 |
| 22.500 | 11 | .0213 |
| 22.750 | 11 | .0208 |
| 23.000 | 11 | .0204 |
| 23.250 | 11 | .0199 |
| 23.500 | 11 | .0194 |
| 23.750 | 11 | .0189 |
| 24.000 | 11 | .0184 |
| 24.250 | 11 | .0179 |

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| 24.500 | 11 | .0173 |
| 24.750 | 11 | .0167 |
| 25.000 | 11 | .0161 |
| 25.250 | 11 | .0155 |
| 25.500 | 11 | .0149 |
| 25.750 | 11 | .0142 |
| 26.000 | 11 | .0135 |
| 26.250 | 11 | .0128 |
| 26.500 | 11 | .0121 |
| 26.750 | 11 | .0114 |
| 27.000 | 11 | .0106 |
| 27.250 | 11 | .0099 |
| 27.500 | 11 | .0091 |
| 27.750 | 11 | .0084 |
| 28.000 | 11 | .0076 |
| 28.250 | 11 | .0069 |
| 28.500 | 11 | .0062 |
| 28.750 | 11 | .0055 |
| 29.000 | 11 | .0047 |
| 29.250 | 11 | .0040 |
| 29.500 | 11 | .0034 |
| 29.750 | 11 | .0027 |
| 30.000 | 11 | .0021 |
| 5.250 | 12 | 99.2122 |
| 5.500 | 12 | 40.6278 |
| 5.750 | 12 | 18.9406 |
| 6.000 | 12 | 8.7644 |
| 6.250 | 12 | 4.1887 |
| 6.500 | 12 | 2.1331 |
| 6.750 | 12 | 1.1538 |
| 7.000 | 12 | .6411 |
| 7.250 | 12 | .4089 |
| 7.500 | 12 | .2443 |
| 7.750 | 12 | .1319 |
| 8.000 | 12 | .0491 |
| 8.250 | 12 | .0543 |
| 8.500 | 12 | -.2667 |
| 8.750 | 12 | .0246 |
| 9.000 | 12 | .0297 |
| 9.250 | 12 | .0078 |
| 9.500 | 12 | -.0181 |
| 9.750 | 12 | -.0426 |
| 10.000 | 12 | -.0547 |
| 10.250 | 12 | -.0747 |
| 10.500 | 12 | -.0939 |
| 10.750 | 12 | -.0986 |
| 11.000 | 12 | -.0909 |
| 11.250 | 12 | -.0769 |

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| 11.500 | 12 | -.0612 |
| 11.750 | 12 | -.0481 |
| 12.000 | 12 | -.0417 |
| 12.250 | 12 | -.0450 |
| 12.500 | 12 | -.0541 |
| 12.750 | 12 | -.0638 |
| 13.000 | 12 | -.0690 |
| 13.250 | 12 | -.0655 |
| 13.500 | 12 | -.0550 |
| 13.750 | 12 | -.0400 |
| 14.000 | 12 | -.0232 |
| 14.250 | 12 | -.0072 |
| 14.500 | 12 | .0071 |
| 14.750 | 12 | .0191 |
| 15.000 | 12 | .0280 |
| 15.250 | 12 | .0333 |
| 15.500 | 12 | .0353 |
| 15.750 | 12 | .0345 |
| 16.000 | 12 | .0315 |
| 16.250 | 12 | .0266 |
| 16.500 | 12 | .0205 |
| 16.750 | 12 | .0136 |
| 17.000 | 12 | .0064 |
| 17.250 | 12 | -.0006 |
| 17.500 | 12 | -.0069 |
| 17.750 | 12 | -.0121 |
| 18.000 | 12 | -.0162 |
| 18.250 | 12 | -.0193 |
| 18.500 | 12 | -.0216 |
| 18.750 | 12 | -.0231 |
| 19.000 | 12 | -.0241 |
| 19.250 | 12 | -.0244 |
| 19.500 | 12 | -.0244 |
| 19.750 | 12 | -.0241 |
| 20.000 | 12 | -.0237 |
| 20.250 | 12 | -.0231 |
| 20.500 | 12 | -.0225 |
| 20.750 | 12 | -.0219 |
| 21.000 | 12 | -.0212 |
| 21.250 | 12 | -.0204 |
| 21.500 | 12 | -.0196 |
| 21.750 | 12 | -.0188 |
| 22.000 | 12 | -.0180 |
| 22.250 | 12 | -.0171 |
| 22.500 | 12 | -.0163 |
| 22.750 | 12 | -.0154 |
| 23.000 | 12 | -.0145 |
| 23.250 | 12 | -.0136 |

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| 23.500 | 12 | -.0127 |
| 23.750 | 12 | -.0118 |
| 24.000 | 12 | -.0110 |
| 24.250 | 12 | -.0101 |
| 24.500 | 12 | -.0093 |
| 24.750 | 12 | -.0085 |
| 25.000 | 12 | -.0077 |
| 25.250 | 12 | -.0070 |
| 25.500 | 12 | -.0063 |
| 25.750 | 12 | -.0057 |
| 26.000 | 12 | -.0051 |
| 26.250 | 12 | -.0045 |
| 26.500 | 12 | -.0039 |
| 26.750 | 12 | -.0034 |
| 27.000 | 12 | -.0029 |
| 27.250 | 12 | -.0025 |
| 27.500 | 12 | -.0020 |
| 27.750 | 12 | -.0016 |
| 28.000 | 12 | -.0012 |
| 28.250 | 12 | -.0008 |
| 28.500 | 12 | -.0005 |
| 28.750 | 12 | -.0001 |
| 29.000 | 12 | .0002 |
| 29.250 | 12 | .0005 |
| 29.500 | 12 | .0008 |
| 29.750 | 12 | .0011 |
| 30.000 | 12 | .0013 |