Table I. Cross section per nucleon for inelastic electron scattering from aluminum from this experiment. Also shown are values of $\nu W_2/A$ extracted assuming $R = 0.32/Q^2$. The errors are statistical only, and do not include an overall normalization error of about 3%.

| $E'$ (GeV) | $Q^2$ (GeV/c)$^2$ | $\epsilon$ | $x$ | $\xi$ | $d\sigma/d\Omega dE'$ (nb/sr-GeV) | $\nu W_2/A$ ($\times$1000) |
|---|---|---|---|---|---|---|
| | | | $E = 1.968$ | $\theta = 55.208$ | | |
| 1.100 | 1.859 | 0.565 | 1.141 | 0.798 | $0.683 \pm 0.042$ | $15.7 \pm 1.0$ |
| 1.072 | 1.812 | 0.559 | 1.078 | 0.768 | $0.938 \pm 0.037$ | $22.1 \pm 0.9$ |
| 1.044 | 1.764 | 0.552 | 1.017 | 0.740 | $1.12 \pm 0.04$ | $26.9 \pm 1.1$ |
| 1.016 | 1.717 | 0.545 | 0.961 | 0.712 | $1.32 \pm 0.09$ | $32.3 \pm 2.2$ |
| 0.988 | 1.670 | 0.537 | 0.908 | 0.684 | $1.52 \pm 0.13$ | $37.9 \pm 3.1$ |
| 0.960 | 1.622 | 0.529 | 0.857 | 0.657 | $1.85 \pm 0.11$ | $46.8 \pm 2.8$ |
| 0.932 | 1.575 | 0.521 | 0.810 | 0.630 | $1.89 \pm 0.17$ | $48.7 \pm 4.4$ |
| | | | $E = 2.407$ | $\theta = 41.110$ | | |
| 1.582 | 1.878 | 0.723 | 1.213 | 0.826 | $0.786 \pm 0.111$ | $9.47 \pm 1.34$ |
| 1.550 | 1.839 | 0.718 | 1.143 | 0.796 | $1.12 \pm 0.12$ | $13.9 \pm 1.5$ |
| 1.517 | 1.800 | 0.712 | 1.078 | 0.768 | $1.67 \pm 0.07$ | $21.5 \pm 0.9$ |
| 1.484 | 1.762 | 0.706 | 1.018 | 0.739 | $2.12 \pm 0.07$ | $28.0 \pm 0.9$ |
| 1.452 | 1.723 | 0.699 | 0.961 | 0.712 | $2.53 \pm 0.07$ | $34.3 \pm 1.0$ |
| 1.419 | 1.684 | 0.692 | 0.908 | 0.685 | $2.69 \pm 0.13$ | $37.5 \pm 1.8$ |
| 1.386 | 1.646 | 0.685 | 0.859 | 0.659 | $3.23 \pm 0.12$ | $46.2 \pm 1.7$ |
| 1.354 | 1.607 | 0.678 | 0.813 | 0.634 | $3.51 \pm 0.11$ | $51.4 \pm 1.6$ |
| 1.321 | 1.568 | 0.670 | 0.770 | 0.609 | $3.71 \pm 0.13$ | $55.4 \pm 2.0$ |
| 1.288 | 1.529 | 0.662 | 0.729 | 0.585 | $4.98 \pm 0.77$ | $75.9 \pm 11.7$ |
| | | | $E = 2.407$ | $\theta = 58.882$ | | |
| 1.103 | 2.567 | 0.486 | 1.049 | 0.812 | $0.196 \pm 0.018$ | $11.3 \pm 1.0$ |
| 1.075 | 2.500 | 0.479 | 1.000 | 0.784 | $0.251 \pm 0.016$ | $14.7 \pm 0.9$ |
| 1.046 | 2.434 | 0.471 | 0.953 | 0.756 | $0.301 \pm 0.021$ | $17.7 \pm 1.2$ |
| 1.018 | 2.367 | 0.464 | 0.908 | 0.729 | $0.400 \pm 0.041$ | $23.7 \pm 2.4$ |
| 0.989 | 2.301 | 0.456 | 0.865 | 0.702 | $0.472 \pm 0.033$ | $28.1 \pm 2.0$ |
| 0.961 | 2.235 | 0.448 | 0.823 | 0.675 | $0.644 \pm 0.047$ | $38.5 \pm 2.8$ |
| | | | $E = 2.837$ | $\theta = 44.993$ | | |
| 1.607 | 2.669 | 0.650 | 1.156 | 0.868 | $0.175 \pm 0.025$ | $5.69 \pm 0.80$ |
| 1.573 | 2.613 | 0.644 | 1.101 | 0.840 | $0.317 \pm 0.026$ | $10.5 \pm 0.9$ |
| 1.539 | 2.557 | 0.637 | 1.049 | 0.811 | $0.367 \pm 0.020$ | $12.3 \pm 0.7$ |

*continued*

Table I. continued.

| $E'$ (GeV) | $Q^2$ (GeV/c)$^2$ | $\epsilon$ | $x$ | $\xi$ | $d\sigma/d\Omega dE'$ (nb/sr-GeV) | $\nu W_2/A$ ($\times 1000$) |
|---|---|---|---|---|---|---|
| 1.505 | 2.500 | 0.630 | 1.000 | 0.784 | $0.485 \pm 0.026$ | $16.6 \pm 0.9$ |
| 1.471 | 2.444 | 0.623 | 0.953 | 0.757 | $0.576 \pm 0.034$ | $20.0 \pm 1.2$ |
| 1.437 | 2.387 | 0.616 | 0.909 | 0.730 | $0.583 \pm 0.061$ | $20.5 \pm 2.2$ |
| 1.403 | 2.331 | 0.608 | 0.866 | 0.704 | $0.793 \pm 0.048$ | $28.3 \pm 1.7$ |
| 1.369 | 2.275 | 0.600 | 0.826 | 0.679 | $0.992 \pm 0.052$ | $35.8 \pm 1.9$ |
| 1.335 | 2.218 | 0.591 | 0.787 | 0.654 | $1.12 \pm 0.09$ | $40.9 \pm 3.2$ |
| | | | $E = 2.837$ | $\theta = 61.205$ | | |
| 1.155 | 3.397 | 0.438 | 1.076 | 0.867 | $0.0633 \pm 0.0201$ | $6.90 \pm 2.19$ |
| 1.130 | 3.323 | 0.432 | 1.038 | 0.842 | $0.0658 \pm 0.0085$ | $7.19 \pm 0.93$ |
| 1.105 | 3.250 | 0.426 | 1.000 | 0.819 | $0.0943 \pm 0.0100$ | $10.3 \pm 1.1$ |
| 1.080 | 3.177 | 0.420 | 0.964 | 0.795 | $0.120 \pm 0.013$ | $13.2 \pm 1.4$ |
| 1.055 | 3.104 | 0.414 | 0.928 | 0.772 | $0.0990 \pm 0.0225$ | $10.9 \pm 2.5$ |
| 1.030 | 3.030 | 0.408 | 0.894 | 0.748 | $0.157 \pm 0.019$ | $17.2 \pm 2.1$ |
| 1.006 | 2.957 | 0.401 | 0.860 | 0.726 | $0.182 \pm 0.020$ | $20.0 \pm 2.2$ |
| 0.981 | 2.884 | 0.394 | 0.828 | 0.703 | $0.203 \pm 0.033$ | $22.2 \pm 3.6$ |
| | | | $E = 3.400$ | $\theta = 34.694$ | | |
| 2.146 | 2.594 | 0.761 | 1.102 | 0.839 | $0.574 \pm 0.083$ | $10.9 \pm 1.6$ |
| 2.107 | 2.547 | 0.756 | 1.050 | 0.811 | $0.704 \pm 0.044$ | $13.7 \pm 0.9$ |
| 2.068 | 2.500 | 0.750 | 1.000 | 0.784 | $0.912 \pm 0.046$ | $18.2 \pm 0.9$ |
| 2.029 | 2.453 | 0.744 | 0.953 | 0.757 | $0.880 \pm 0.047$ | $17.9 \pm 1.0$ |
| 1.990 | 2.406 | 0.737 | 0.909 | 0.731 | $1.20 \pm 0.10$ | $25.0 \pm 2.0$ |
| | | | $E = 3.400$ | $\theta = 44.482$ | | |
| 1.700 | 3.311 | 0.615 | 1.038 | 0.842 | $0.137 \pm 0.022$ | $7.94 \pm 1.24$ |
| 1.668 | 3.250 | 0.609 | 1.000 | 0.819 | $0.139 \pm 0.020$ | $8.13 \pm 1.16$ |
| 1.637 | 3.189 | 0.602 | 0.964 | 0.795 | $0.194 \pm 0.024$ | $11.5 \pm 1.4$ |
| 1.605 | 3.128 | 0.596 | 0.929 | 0.773 | $0.233 \pm 0.043$ | $13.8 \pm 2.6$ |
| | | | $E = 3.400$ | $\theta = 57.572$ | | |
| 1.289 | 4.066 | 0.441 | 1.027 | 0.862 | $0.0392 \pm 0.0083$ | $5.95 \pm 1.26$ |
| 1.260 | 3.972 | 0.435 | 0.989 | 0.836 | $0.0396 \pm 0.0078$ | $6.01 \pm 1.19$ |
| 1.230 | 3.878 | 0.428 | 0.952 | 0.810 | $0.0724 \pm 0.0132$ | $11.0 \pm 2.0$ |
| | | | $E = 3.956$ | $\theta = 28.409$ | | |
| 2.709 | 2.581 | 0.830 | 1.103 | 0.838 | $0.686 \pm 0.117$ | $8.43 \pm 1.43$ |
| 2.666 | 2.541 | 0.825 | 1.050 | 0.811 | $1.01 \pm 0.10$ | $12.8 \pm 1.2$ |
| 2.624 | 2.500 | 0.820 | 1.000 | 0.784 | $1.25 \pm 0.10$ | $16.3 \pm 1.3$ |
| 2.581 | 2.460 | 0.815 | 0.954 | 0.758 | $1.35 \pm 0.11$ | $18.0 \pm 1.5$ |
| 2.539 | 2.419 | 0.810 | 0.910 | 0.732 | $1.41 \pm 0.15$ | $19.3 \pm 2.0$ |

*continued*

Table I. continued.

| $E'$ (GeV) | $Q^2$ (GeV/c)$^2$ | $\epsilon$ | $x$ | $\xi$ | $d\sigma/d\Omega dE'$ (nb/sr-GeV) | $\nu W_2/A$ ($\times$1000) |
|---|---|---|---|---|---|---|
| | | | $E = 3.956$ | $\theta = 35.382$ | | |
| 2.296 | 3.355 | 0.730 | 1.077 | 0.865 | $0.206 \pm 0.048$ | $7.26 \pm 1.71$ |
| 2.260 | 3.303 | 0.724 | 1.038 | 0.842 | $0.190 \pm 0.030$ | $6.78 \pm 1.08$ |
| 2.224 | 3.250 | 0.719 | 1.000 | 0.819 | $0.277 \pm 0.035$ | $10.0 \pm 1.3$ |
| 2.188 | 3.198 | 0.713 | 0.964 | 0.796 | $0.343 \pm 0.040$ | $12.6 \pm 1.5$ |
| 2.152 | 3.145 | 0.707 | 0.929 | 0.774 | $0.429 \pm 0.058$ | $16.0 \pm 2.1$ |
| | | | $E = 3.956$ | $\theta = 43.707$ | | |
| 1.887 | 4.138 | 0.604 | 1.066 | 0.887 | $0.0655 \pm 0.0252$ | $5.67 \pm 2.18$ |
| 1.850 | 4.057 | 0.598 | 1.027 | 0.861 | $0.0655 \pm 0.0126$ | $5.72 \pm 1.10$ |
| 1.813 | 3.976 | 0.591 | 0.989 | 0.836 | $0.0555 \pm 0.0111$ | $4.87 \pm 0.97$ |
| 1.777 | 3.895 | 0.583 | 0.952 | 0.811 | $0.0887 \pm 0.0161$ | $7.84 \pm 1.42$ |
| | | | $E = 3.956$ | $\theta = 59.291$ | | |
| 1.310 | 5.071 | 0.393 | 1.021 | 0.883 | $0.0086 \pm 0.0033$ | $2.23 \pm 0.85$ |
| 1.284 | 4.970 | 0.388 | 0.991 | 0.861 | $0.0187 \pm 0.0047$ | $4.81 \pm 1.20$ |
| 1.258 | 4.869 | 0.382 | 0.962 | 0.839 | $0.0236 \pm 0.0060$ | $6.05 \pm 1.54$ |
| | | | $E = 4.507$ | $\theta = 35.592$ | | |
| 2.447 | 4.121 | 0.705 | 1.066 | 0.887 | $0.0969 \pm 0.0354$ | $5.42 \pm 1.98$ |
| 2.405 | 4.050 | 0.699 | 1.027 | 0.861 | $0.0977 \pm 0.0190$ | $5.54 \pm 1.07$ |
| 2.363 | 3.979 | 0.692 | 0.989 | 0.836 | $0.137 \pm 0.022$ | $7.84 \pm 1.24$ |
| 2.321 | 3.908 | 0.686 | 0.953 | 0.811 | $0.127 \pm 0.023$ | $7.34 \pm 1.31$ |
| 2.279 | 3.837 | 0.679 | 0.918 | 0.787 | $0.240 \pm 0.058$ | $14.1 \pm 3.4$ |
| | | | $E = 4.507$ | $\theta = 45.658$ | | |
| 1.865 | 5.062 | 0.543 | 1.021 | 0.883 | $0.0173 \pm 0.0062$ | $2.67 \pm 0.95$ |
| 1.833 | 4.974 | 0.536 | 0.991 | 0.861 | $0.0150 \pm 0.0055$ | $2.32 \pm 0.86$ |
| 1.800 | 4.885 | 0.530 | 0.962 | 0.840 | $0.0395 \pm 0.0097$ | $6.10 \pm 1.50$ |
| | | | $E = 5.507$ | $\theta = 15.145$ | | |
| 4.765 | 1.823 | 0.956 | 1.309 | 0.851 | $8.59 \pm 1.21$ | $11.0 \pm 1.6$ |
| 4.721 | 1.806 | 0.955 | 1.224 | 0.821 | $7.42 \pm 0.82$ | $10.1 \pm 1.1$ |
| 4.676 | 1.789 | 0.953 | 1.148 | 0.793 | $12.6 \pm 1.0$ | $18.0 \pm 1.4$ |
| 4.632 | 1.772 | 0.952 | 1.079 | 0.765 | $14.2 \pm 1.0$ | $21.4 \pm 1.5$ |
| 4.588 | 1.755 | 0.950 | 1.018 | 0.739 | $17.9 \pm 1.1$ | $28.3 \pm 1.8$ |
| 4.544 | 1.738 | 0.949 | 0.961 | 0.714 | $22.3 \pm 1.2$ | $36.8 \pm 2.0$ |

*continued*

Table I. continued.

| $E'$ (GeV) | $Q^2$ (GeV/c)$^2$ | $\epsilon$ | $x$ | $\xi$ | $d\sigma/d\Omega dE'$ (nb/sr-GeV) | $\nu W_2/A$ ($\times 1000$) |
|---|---|---|---|---|---|---|
| 4.499 | 1.721 | 0.947 | 0.910 | 0.689 | $23.9 \pm 1.1$ | $41.4 \pm 2.0$ |
| 4.455 | 1.704 | 0.945 | 0.863 | 0.666 | $25.2 \pm 1.3$ | $45.4 \pm 2.3$ |
| 4.411 | 1.687 | 0.943 | 0.820 | 0.643 | $26.3 \pm 1.6$ | $49.3 \pm 3.1$ |
| 4.367 | 1.670 | 0.941 | 0.781 | 0.622 | $30.4 \pm 1.8$ | $59.2 \pm 3.5$ |
| 4.322 | 1.654 | 0.939 | 0.744 | 0.601 | $31.3 \pm 1.9$ | $63.2 \pm 3.8$ |
| 4.278 | 1.637 | 0.936 | 0.710 | 0.581 | $32.1 \pm 2.0$ | $67.1 \pm 4.3$ |
| 4.234 | 1.620 | 0.934 | 0.678 | 0.562 | $36.0 \pm 2.8$ | $77.8 \pm 6.0$ |
| 4.189 | 1.603 | 0.931 | 0.648 | 0.543 | $33.7 \pm 8.4$ | $75.3 \pm 18.7$ |
| | | | $E = 5.507$ | $\theta = 18.981$ | | |
| 4.466 | 2.674 | 0.927 | 1.369 | 0.956 | $0.390 \pm 0.108$ | $1.69 \pm 0.47$ |
| 4.417 | 2.645 | 0.925 | 1.294 | 0.925 | $0.794 \pm 0.116$ | $3.59 \pm 0.52$ |
| 4.369 | 2.616 | 0.923 | 1.225 | 0.895 | $0.949 \pm 0.119$ | $4.47 \pm 0.56$ |
| 4.320 | 2.587 | 0.921 | 1.162 | 0.866 | $1.35 \pm 0.11$ | $6.62 \pm 0.54$ |
| 4.272 | 2.558 | 0.918 | 1.104 | 0.837 | $1.75 \pm 0.10$ | $8.91 \pm 0.51$ |
| 4.223 | 2.529 | 0.915 | 1.050 | 0.810 | $2.70 \pm 0.12$ | $14.2 \pm 0.6$ |
| 4.175 | 2.500 | 0.913 | 1.000 | 0.784 | $2.80 \pm 0.13$ | $15.3 \pm 0.7$ |
| 4.126 | 2.471 | 0.910 | 0.954 | 0.758 | $3.06 \pm 0.13$ | $17.3 \pm 0.7$ |
| 4.078 | 2.442 | 0.907 | 0.911 | 0.734 | $3.85 \pm 0.14$ | $22.4 \pm 0.8$ |
| 4.029 | 2.413 | 0.904 | 0.870 | 0.710 | $4.61 \pm 0.17$ | $27.7 \pm 1.0$ |
| 3.981 | 2.384 | 0.901 | 0.832 | 0.687 | $4.76 \pm 0.24$ | $29.4 \pm 1.5$ |
| 3.932 | 2.355 | 0.897 | 0.797 | 0.665 | $5.87 \pm 0.28$ | $37.4 \pm 1.8$ |
| 3.884 | 2.326 | 0.894 | 0.764 | 0.644 | $6.72 \pm 0.36$ | $43.9 \pm 2.3$ |
| 3.836 | 2.297 | 0.890 | 0.732 | 0.623 | $8.06 \pm 0.78$ | $54.1 \pm 5.2$ |
| | | | $E = 5.507$ | $\theta = 22.804$ | | |
| 3.907 | 3.363 | 0.875 | 1.120 | 0.889 | $0.406 \pm 0.064$ | $5.35 \pm 0.84$ |
| 3.863 | 3.326 | 0.871 | 1.078 | 0.865 | $0.505 \pm 0.045$ | $6.81 \pm 0.60$ |
| 3.819 | 3.288 | 0.868 | 1.038 | 0.841 | $0.604 \pm 0.043$ | $8.34 \pm 0.60$ |
| 3.775 | 3.250 | 0.865 | 1.000 | 0.819 | $0.743 \pm 0.046$ | $10.5 \pm 0.6$ |
| 3.731 | 3.212 | 0.861 | 0.964 | 0.796 | $0.841 \pm 0.043$ | $12.1 \pm 0.6$ |
| 3.688 | 3.175 | 0.858 | 0.930 | 0.775 | $0.959 \pm 0.045$ | $14.1 \pm 0.7$ |
| 3.644 | 3.137 | 0.854 | 0.897 | 0.754 | $1.00 \pm 0.05$ | $15.1 \pm 0.8$ |
| 3.600 | 3.099 | 0.850 | 0.866 | 0.734 | $1.26 \pm 0.07$ | $19.2 \pm 1.1$ |
| 3.556 | 3.061 | 0.846 | 0.836 | 0.714 | $1.48 \pm 0.09$ | $23.0 \pm 1.4$ |
| 3.512 | 3.024 | 0.841 | 0.808 | 0.694 | $1.64 \pm 0.11$ | $26.0 \pm 1.7$ |
| 3.468 | 2.986 | 0.837 | 0.781 | 0.676 | $2.13 \pm 0.25$ | $34.4 \pm 4.0$ |

*continued*

Table I. continued.

| $E'$ (GeV) | $Q^2$ (GeV/c)$^2$ | $\epsilon$ | $x$ | $\xi$ | $d\sigma/d\Omega dE'$ (nb/sr-GeV) | $\nu W_2/A$ ($\times$1000) |
|---|---|---|---|---|---|---|
| | | | $E = 5.507$ | $\theta = 26.823$ | | |
| 3.508 | 4.157 | 0.818 | 1.108 | 0.913 | $0.0717 \pm 0.0250$ | $2.13 \pm 0.74$ |
| 3.459 | 4.099 | 0.813 | 1.066 | 0.886 | $0.114 \pm 0.015$ | $3.45 \pm 0.44$ |
| 3.410 | 4.041 | 0.808 | 1.027 | 0.861 | $0.156 \pm 0.015$ | $4.81 \pm 0.45$ |
| 3.361 | 3.983 | 0.803 | 0.989 | 0.836 | $0.221 \pm 0.015$ | $6.93 \pm 0.47$ |
| 3.312 | 3.925 | 0.798 | 0.953 | 0.812 | $0.267 \pm 0.013$ | $8.51 \pm 0.42$ |
| 3.263 | 3.867 | 0.793 | 0.918 | 0.788 | $0.321 \pm 0.015$ | $10.4 \pm 0.5$ |
| 3.214 | 3.809 | 0.787 | 0.885 | 0.765 | $0.413 \pm 0.020$ | $13.6 \pm 0.6$ |
| 3.165 | 3.750 | 0.781 | 0.853 | 0.743 | $0.495 \pm 0.024$ | $16.5 \pm 0.8$ |
| 3.116 | 3.692 | 0.775 | 0.823 | 0.721 | $0.548 \pm 0.038$ | $18.5 \pm 1.3$ |
| | | | $E = 5.507$ | $\theta = 32.829$ | | |
| 2.913 | 5.124 | 0.713 | 1.052 | 0.905 | $0.0378 \pm 0.0079$ | $2.89 \pm 0.60$ |
| 2.871 | 5.051 | 0.708 | 1.021 | 0.883 | $0.0586 \pm 0.0085$ | $4.52 \pm 0.65$ |
| 2.830 | 4.978 | 0.703 | 0.991 | 0.861 | $0.0588 \pm 0.0083$ | $4.57 \pm 0.64$ |
| 2.789 | 4.906 | 0.697 | 0.962 | 0.840 | $0.0830 \pm 0.0103$ | $6.50 \pm 0.81$ |
| 2.748 | 4.833 | 0.691 | 0.933 | 0.819 | $0.0875 \pm 0.0137$ | $6.90 \pm 1.08$ |
| | | | $E = 9.800$ | $\theta = 13.248$ | | |
| 7.900 | 4.121 | 0.952 | 1.156 | 0.938 | $0.260 \pm 0.076$ | $1.57 \pm 0.46$ |
| 7.837 | 4.088 | 0.950 | 1.110 | 0.911 | $0.589 \pm 0.091$ | $3.66 \pm 0.57$ |
| 7.775 | 4.056 | 0.949 | 1.067 | 0.886 | $0.696 \pm 0.091$ | $4.47 \pm 0.58$ |
| 7.712 | 4.023 | 0.947 | 1.027 | 0.860 | $0.860 \pm 0.098$ | $5.68 \pm 0.65$ |
| 7.650 | 3.990 | 0.945 | 0.989 | 0.836 | $1.07 \pm 0.11$ | $7.24 \pm 0.73$ |
| 7.587 | 3.958 | 0.943 | 0.953 | 0.813 | $1.16 \pm 0.11$ | $8.10 \pm 0.80$ |
| 7.525 | 3.925 | 0.941 | 0.919 | 0.790 | $1.42 \pm 0.13$ | $10.1 \pm 0.9$ |
| 7.462 | 3.892 | 0.939 | 0.887 | 0.769 | $1.75 \pm 0.16$ | $12.8 \pm 1.2$ |
| 7.400 | 3.860 | 0.937 | 0.857 | 0.748 | $2.06 \pm 0.21$ | $15.5 \pm 1.6$ |
| 7.337 | 3.827 | 0.935 | 0.828 | 0.727 | $2.27 \pm 0.42$ | $17.5 \pm 3.2$ |

*continued*

Table I. continued.

| $E'$ (GeV) | $Q^2$ (GeV/c)$^2$ | $\epsilon$ | $x$ | $\xi$ | $d\sigma/d\Omega dE'$ (nb/sr-GeV) | $\nu W_2/A$ ($\times 1000$) |
|---|---|---|---|---|---|---|
| | | | $E = 9.800$ | $\theta = 15.367$ | | |
| 7.351 | 5.151 | 0.927 | 1.121 | 0.949 | $0.131 \pm 0.052$ | $1.81 \pm 0.71$ |
| 7.293 | 5.110 | 0.925 | 1.086 | 0.926 | $0.176 \pm 0.038$ | $2.47 \pm 0.54$ |
| 7.235 | 5.069 | 0.923 | 1.053 | 0.904 | $0.150 \pm 0.033$ | $2.15 \pm 0.47$ |
| 7.176 | 5.029 | 0.921 | 1.021 | 0.882 | $0.199 \pm 0.037$ | $2.92 \pm 0.54$ |
| 7.118 | 4.988 | 0.918 | 0.991 | 0.861 | $0.289 \pm 0.044$ | $4.31 \pm 0.65$ |
| 7.060 | 4.947 | 0.916 | 0.962 | 0.841 | $0.383 \pm 0.051$ | $5.83 \pm 0.78$ |
| 7.002 | 4.906 | 0.914 | 0.934 | 0.821 | $0.682 \pm 0.072$ | $10.6 \pm 1.1$ |
| 6.944 | 4.866 | 0.911 | 0.908 | 0.802 | $0.644 \pm 0.078$ | $10.2 \pm 1.2$ |
| 6.885 | 4.825 | 0.909 | 0.882 | 0.783 | $0.802 \pm 0.109$ | $12.9 \pm 1.7$ |
| 6.827 | 4.784 | 0.906 | 0.858 | 0.765 | $0.784 \pm 0.219$ | $12.8 \pm 3.6$ |
| | | | $E = 9.800$ | $\theta = 17.515$ | | |
| 6.802 | 6.181 | 0.896 | 1.099 | 0.956 | $0.0265 \pm 0.0100$ | $0.730 \pm 0.275$ |
| 6.748 | 6.132 | 0.893 | 1.071 | 0.936 | $0.0643 \pm 0.0125$ | $1.80 \pm 0.35$ |
| 6.694 | 6.083 | 0.891 | 1.044 | 0.917 | $0.0873 \pm 0.0131$ | $2.48 \pm 0.37$ |
| 6.640 | 6.034 | 0.888 | 1.018 | 0.898 | $0.122 \pm 0.015$ | $3.51 \pm 0.43$ |
| 6.587 | 5.985 | 0.885 | 0.993 | 0.880 | $0.107 \pm 0.014$ | $3.13 \pm 0.41$ |
| 6.533 | 5.936 | 0.883 | 0.968 | 0.862 | $0.127 \pm 0.016$ | $3.75 \pm 0.46$ |
| 6.479 | 5.888 | 0.880 | 0.945 | 0.844 | $0.157 \pm 0.018$ | $4.71 \pm 0.54$ |
| 6.425 | 5.839 | 0.877 | 0.922 | 0.827 | $0.189 \pm 0.022$ | $5.73 \pm 0.66$ |
| 6.371 | 5.790 | 0.874 | 0.900 | 0.810 | $0.234 \pm 0.029$ | $7.20 \pm 0.91$ |
| 6.317 | 5.741 | 0.871 | 0.878 | 0.794 | $0.285 \pm 0.052$ | $8.87 \pm 1.62$ |
| | | | $E = 9.800$ | $\theta = 19.753$ | | |
| 6.203 | 7.154 | 0.855 | 1.060 | 0.944 | $0.0328 \pm 0.0107$ | $1.68 \pm 0.55$ |
| 6.154 | 7.097 | 0.852 | 1.037 | 0.927 | $0.0250 \pm 0.0085$ | $1.29 \pm 0.44$ |
| 6.104 | 7.040 | 0.849 | 1.015 | 0.910 | $0.0433 \pm 0.0108$ | $2.26 \pm 0.57$ |
| 6.055 | 6.983 | 0.846 | 0.994 | 0.894 | $0.0415 \pm 0.0106$ | $2.19 \pm 0.56$ |
| 6.005 | 6.926 | 0.843 | 0.973 | 0.877 | $0.0679 \pm 0.0137$ | $3.62 \pm 0.73$ |
| 5.956 | 6.869 | 0.840 | 0.952 | 0.862 | $0.0689 \pm 0.0145$ | $3.70 \pm 0.78$ |
| 5.906 | 6.812 | 0.836 | 0.932 | 0.846 | $0.0728 \pm 0.0166$ | $3.95 \pm 0.90$ |
| 5.857 | 6.755 | 0.833 | 0.913 | 0.831 | $0.100 \pm 0.023$ | $5.49 \pm 1.28$ |
| 5.807 | 6.698 | 0.830 | 0.894 | 0.816 | $0.142 \pm 0.044$ | $7.82 \pm 2.44$ |