| Name | Configuration | Velocity off Rod | Apogee | Velocity at Deployment | Optimum Delay | Max Velocity | Max Acc. | Time to Apogee | Flight Time | Ground hit St | ability at Rail Exit | |
|------------------------------|---------------|------------------|----------|------------------------|----------------------|--------------|-----------------------|----------------|-------------|---------------|----------------------|--|
| M1939-0 Flight Profile | [M1939-0] | 84.8 ft/s | 11085 ft | 86.6 ft/s | 19 s | 948 ft/s | 238 ft/s ² | 25.9 s | 170 s | 20.8 ft/s | 3.513 | |
| M1939-0 Flight Profile 5mph | [M1939-0] | 84.8 ft/s | 11061 ft | 86.6 ft/s | 19 s | 948 ft/s | 238 ft/s ² | 25.9 s | 169 s | 20.8 ft/s | 2.379 | |
| M1939-0 Flight Profile 10mph | [M1939-0] | 84.8 ft/s | 11001 ft | 86.6 ft/s | 19 s | 947 ft/s | 238 ft/s ² | 25.9 s | 169 s | 20.8 ft/s | 1.419 | |
| M1939-0 Flight Profile 15mph | [M1939-0] | 84.8 ft/s | 10899 ft | 86.7 ft/s | 18.8 s | 946 ft/s | 239 ft/s ² | 25.7 s | 169 s | 20.8 ft/s | 1.087 | |
| M1939-0 Flight Profile 20mph | [M1939-0] | 84.8 ft/s | 10813 ft | 86.6 ft/s | 18.7 s | 945 ft/s | 239 ft/s ² | 25.6 s | 167 s | 20.8 ft/s | 0.938 | |
| M1939-0 Flight Profile 25mph | [M1939-0] | 84.8 ft/s | 10679 ft | 86.5 ft/s | 18.5 s | 943 ft/s | 240 ft/s ² | 25.4 s | 165 s | 20.7 ft/s | 0.449 | |
| | | | | | | | | | | | | |
| M1939-0 Flight Profile 5° | [M1939-0] | 84.9 ft/s | 10958 ft | 86.6 ft/s | 18.9 s | 949 ft/s | 238 ft/s ² | 25.8 s | 168 s | 20.8 ft/s | 3.505 | |
| M1939-0 Flight Profile 10° | [M1939-0] | 85 ft/s | 10599 ft | 86.6 ft/s | 18.4 s | 951 ft/s | 239 ft/s ² | 25.3 s | 164 s | 20.8 ft/s | 3.496 | |

| [M1939-0] | 84.9 ft/s | 10958 ft | 86.6 ft/s | 18.9 s | | |
|-----------|-----------------|----------|--------------------------|-----------------|--|--|
| [M1939-0] | 85 ft/s | 10599 ft | 86.6 ft/s | 18.4 s | | |
| | | | | | | |
| | | Altitude | | Stability | | |
| | # Time (s) | (ft) | Vertical velocity (ft/s) | margin calibers | | |
| | # Event LAUNCH | | rred at t=0.5 seconds | ū | | |
| | 0.5 | 17.717 | 84.772 | NaN | | |
| | 0.515 | 19.012 | 87.937 | 0.997 | | |
| | 0.538 | 21.044 | 92.701 | 1.087 | | |
| | 0.571 | 24.294 | 99.885 | 1.212 | | |
| | 0.621 | 29.556 | 110.609 | 1.389 | | |
| | 0.671 | 35.357 | 121.436 | 1.563 | | |
| | 0.721 | 41.702 | 132.357 | 1.711 | | |
| | 0.771 | 48.595 | 143.363 | 1.86 | | |
| | 0.821 | 56.04 | 154.456 | 2.022 | | |
| 15 mph | 0.871 | 64.043 | 165.634 | 2.185 | | |
| 13 111511 | 0.921 | 72.606 | 176.896 | 2.398 | | |
| | 0.971 | 81.734 | 188.24 | 2.652 | | |
| | 1.021 | 91.431 | 199.645 | 2.853 | | |
| | 1.071 | 101.7 | 211.104 | 2.936 | | |
| | 1.121 | 112.54 | 222.615 | 3.111 | | |
| | 1.171 | 123.96 | | 3.425 | | |
| | 1.221 | 135.96 | 234.173 245.772 | | | |
| | | | | 3.664 | | |
| | 1.271 | 148.54 | 257.402 | 3.591 | | |
| | 1.321 | 161.7 | 269.04 | 3.347 | | |
| | # Frank I ALING | IDOD | | | | |
| | | | rred at t=0.5 seconds | N-N | | |
| | 0.5 | 17.717 | 84.771 | NaN | | |
| | 0.515 | 19.012 | 87.936 | 0.938 | | |
| | 0.538 | 21.044 | 92.7 | 0.986 | | |
| | 0.571 | 24.294 | 99.883 | 1.069 | | |
| | 0.621 | 29.556 | 110.606 | 1.209 | | |
| | 0.671 | 35.357 | 121.43 | 1.363 | | |
| | 0.721 | 41.701 | 132.348 | 1.548 | | |
| | 0.771 | 48.594 | 143.353 | 1.729 | | |
| | 0.821 | 56.039 | 154.444 | 1.846 | | |
| 20 mph | 0.871 | 64.04 | 165.62 | 1.943 | | |
| • | 0.921 | 72.603 | 176.879 | 2.119 | | |
| | 0.971 | 81.73 | 188.22 | 2.361 | | |
| | 1.021 | 91.426 | 199.623 | 2.555 | | |
| | 1.071 | 101.69 | 211.08 | 2.813 | | |
| | 1.121 | 112.54 | 222.587 | 3.068 | | |
| | 1.171 | 123.95 | 234.138 | 3.227 | | |
| | 1.221 | 135.95 | 245.73 | 3.393 | | |
| | 1.271 | 148.53 | 257.348 | 3.631 | | |
| | 1.321 | 161.69 | 268.972 | 3.649 | | |
| | 1.371 | 175.43 | 280.596 | 3.471 | | |
| | | | | | | |
| | | | rred at t=0.5 seconds | | | |
| 25 mph | 0.5 | 17.717 | 84.773 | NaN | | |
| | 0.515 | 19.013 | 87.937 | 0.449 | | |
| | 0.538 | 21.045 | 92.7 | 0.541 | | |
| | 0.571 | 24.295 | 99.881 | 0.62 | | |
| | 0.621 | 29.556 | 110.6 | 0.736 | | |
| | 0.671 | 35.357 | 121.418 | 0.899 | | |
| | 0.721 | 41.7 | 132.329 | 0.999 | | |
| | 0.771 | 48.592 | 143.324 | 1.132 | | |
| | 0.821 | 56.035 | 154.406 | 1.338 | | |
| | 0.871 | 64.034 | 165.574 | 1.517 | | |
| | 0.921 | 72.594 | 176.829 | 1.737 | | |
| | 0.971 | 81.719 | 188.167 | 1.959 | | |
| | 1.021 | 91.412 | 199.567 | 2.179 | | |
| | 1.071 | 101.68 | 211.022 | 2.483 | | |
| | 1.121 | 112.52 | 222.526 | 2.786 | | |
| | 1.171 | 123.93 | 234.07 | 3.107 | | |
| | 1.221 | 135.92 | 245.645 | 3.478 | | |
| | 1.271 | 148.5 | 257.234 | 3.669 | | |
| | 1.321 | 161.65 | 268.817 | 3.508 | | |
| | 1.371 | 175.38 | 280.392 | 3.427 | | |
| | | | | | | |