Carriage and mount: 90mm GMC M36 in mount M4(T8), medium tank M26 in mount M67(T99E2),
Length of Chamber (to Rifling): 24.8 inches
Length of Rifling: 152.4 inches
Length of Chamber (to projectile base): 20.8 inches (boat-tailed projectiles)
Travel of Projectile in Bore: 156.4 inches (boat-tailed projectiles)
Length of Bore: 177.15 inches, 50.0 calibers
Depth of Breach Recess: 9.00 inches
Length of Muzzle to rear face of Breach: 186.15 inches, 52.5 calibers
Additional length, Muzzle Brake, etc.: 16.0 inches, Muzzle Brake M3 on Late production
Overall length: 202.2 inches with muzzle brake
Diameter of Bore: 3.543 inches
Chamber Capacity: 300 cubic inches
Weight Complete (without muzzle brake): 2,300 pounds
Weight, muzzle Brake M3: 149.5 pounds
Total Weight: 2,450 pounds
Type of Breechblock: Semiautomatic, vertical sliding wedge.
Rifling: 32 grooves, uniform right hand twist, one turn in 32 calibers
Ammunition: Fixed
Primer: Percussion
Weight Complete Round in pounds: APC M82 early 42.75, M82 late 43.87, HVAP T30E16 37.13, AP T33 43.82, HE M71 41.93
Weight, Projectile in pounds: APC M82 early 24.11, HVAP M304(T30E16) 16.80, AP T33 24.06, HE M71 23.29
Maximum Powder Pressure: 38,000 psi
Maximum Rate of Fire: 8 rounds a minute
Muzzle Velocity: APC M82 early 2650Ft/sec, M82 late 2800Ft/sec, HVAP T30E16 3350ft-sec, AP T33 2800ft-sec, HE M71 2700ft-sec
Muzzle Energy of Projectile: KE=1/2MV² Rotational energy is neglected and value is based on long tons (2,240 pounds)
Maximum Range test stand In yards: APC M82 early 20400 yards, M82 late 21400yards, HVAP T30E16 15700 yards, AP T33 21000 yards, HE M71 19560 yards

<table>
<thead>
<tr>
<th>Homogenous Armor at 30 degrees obliquity</th>
<th>500 Yards</th>
<th>1000 Yards</th>
<th>1500 Yards</th>
<th>2000 yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>APC M82 Projectile (APCBC/HE-T) early</td>
<td>4.7 inches (120mm)</td>
<td>4.4 inches (112mm)</td>
<td>4.1 inches (104mm)</td>
<td>3.8 inches (96mm)</td>
</tr>
<tr>
<td>APC M82 Projectile (APCBC/HE-T) late</td>
<td>5.1 inches (129mm)</td>
<td>4.8 inches (122mm)</td>
<td>4.5 inches (114mm)</td>
<td>4.2 inches (106mm)</td>
</tr>
<tr>
<td>HVAP M304 Shot (APCR-T)</td>
<td>8.7 inches (221mm)</td>
<td>7.9 inches (199mm)</td>
<td>7.0 inches (176mm)</td>
<td>6.1 inches (156mm)</td>
</tr>
<tr>
<td>AP T33 Shot (APBC-T)</td>
<td>4.7 inches (119mm)</td>
<td>4.6 inches (117mm)</td>
<td>4.5 inches (114mm)</td>
<td>4.3 inches (109mm)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Homogenous Armor at 55 degrees obliquity</th>
<th>1000 Yards</th>
<th>2000 yards</th>
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</thead>
<tbody>
<tr>
<td>APC M82 Projectile (APCBC/HE-T) early</td>
<td>2.3 inches (58mm)</td>
<td>2.0 inches (51mm)</td>
</tr>
<tr>
<td>APC M82 Projectile (APCBC/HE-T) late</td>
<td>2.5 inches (64mm)</td>
<td>2.2 inches (56mm)</td>
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<tr>
<td>HVAP M304 Shot (APCR-T)</td>
<td>2.9 inches (74mm)</td>
<td>1.8 inches (46mm)</td>
</tr>
<tr>
<td>AP T33 Shot (APBC-T)</td>
<td>2.5 inches (64mm)</td>
<td>2.3 inches (58mm)</td>
</tr>
</tbody>
</table>

Chart created by the Sherman tank site with data from Hunnicutt's Sherman, Pershing and Firepower books and various technical manuals.

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Notes: