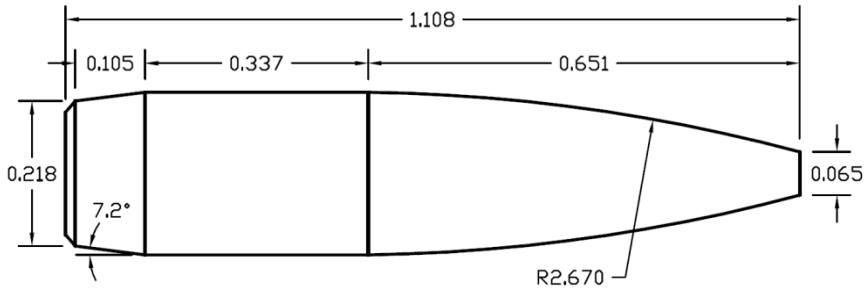
Dimensioned Drawings and Measured Drag (BC) Data for over 175 Bullets

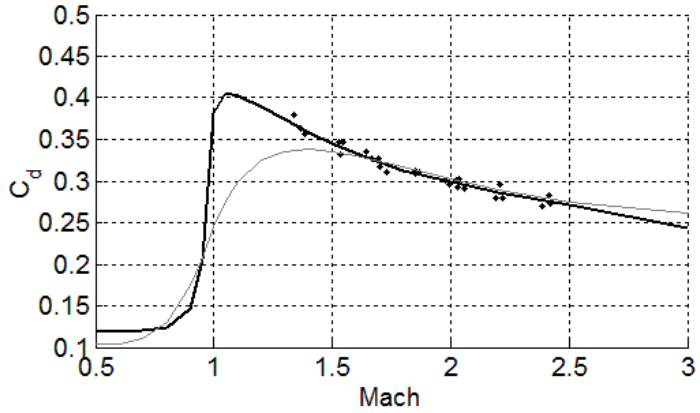
Lapua .243 caliber 90 grain Scenar



Dimensions taken from Lot#P00365701

Sample Size:	**9**	**Ogive Radius:**	**10.94 calibers**
Sectional Density:	**0.216 lb/in^2**	**Rt/R:**	**0.79**

Drag and Ballistic Coefficient



fps / Mach	C_d	i_7	BC_{G7}	i_1	BC_{G1}
1500 / 1.34	0.364	0.991	0.220	0.551	0.395
2000 / 1.79	0.316	1.009	0.216	0.508	0.429
2500 / 2.23	0.284	0.998	0.218	0.501	0.434
3000 / 2.68	0.260	0.998	0.218	0.489	0.445
Average:		**0.999**	**0.218**	**0.512**	**0.426**
Variation:		**0.018**	**0.004**	**0.061**	**0.050**

This is a typical entry for one of the 175 long range bullets included in the book: *Applied Ballistics For Long Range Shooting*. In this example, data for the Lapua .243 caliber 90 grain Scenar match bullet is presented. Each bullet includes a 2d dimensioned drawing with all of the relevant dimensions labeled in inches. Some basic information about the bullets geometry is given including ogive radius and Rt/R ratio (the significance of these values is explained in Chapter 16: *Anatomy of a Bullet.*

The bottom half of the page includes a plot showing the measured drag data for that specific bullet, corrected for (ICAO) standard sea level atmospheric conditions. ***The method used to measure BCs for this book is repeatable within +/- 1%.*** The drag coefficient, form factors, and BCs are given for 4 velocities. Form factors and BCs are referenced to both the G1 and G7 standard projectiles. One of the major themes of the book is to demonstrate the benefits of referencing BCs to the G7 standard which is more representative for long range bullets. The reasoning, instructions, and software required for using G7 BCs are all covered in clear language throughout the book.