



Manufacturer's Information

Test No. 18-5620:

Shooting Reconstruction: Angle Determination

Each sample set contained a wooden box that consisted of one entrance hole, one exit hole and "TOP", "FRONT", and "BACK" labels to distinguish the orientation of the box. In addition, one "A" label was placed on the front and one "1" label was placed on the back of the box to assist participants when reporting the entrance/exit holes and direction of travel. Participants were requested to determine the character associated with the entrance hole, the direction of travel and calculate the angles. The front of the box containing the "A" label was associated with the entrance hole and the direction of travel was left to right, upward. The angles as measured during production are described below.

PRODUCTION: The sample was placed onto a fixed angle set up (jig). A .22 LR Ruger MKIII firearm was affixed above the jig and a digital angle finder was placed on the jig to confirm the angle to be shot.

The Horizontal (Azimuth) angle was measured as 14°(from perpendicular), 76°(left to right) or 104°(right to left) and the Vertical angle was measured as 42.8°(upward) or 137.2°(downward).

SAMPLE SET ASSEMBLY: After each sample was shot, it was securely placed in a sample pack box. This process was repeated until all of the desired samples were produced.

VERIFICATION: All three predistribution laboratories reported Horizontal and Vertical angles within +/-5° from the expected responses.