

SPECIAL BEARING CASES.

1. BOW AND BEAM BEARING. DISTANCE RUN BETWEEN THE BOW (45°) AND BEAM (90°) BEARINGS IS EQUAL TO THE DISTANCE PASSED WHEN ABEAM.

2. DOUBLING ANGLE ON THE BOW. DISTANCE OFF AT SECOND BEARING IS EQUAL TO THE DISTANCE RUN BETWEEN BEARINGS, WHEN THE INITIAL RELATIVE BEARING ON THE BOW IS DOUBLED; I.E., FIRST BEARING 20° , SECOND BEARING 40° , ETC.

3. THE $22\frac{1}{2}^{\circ}$ - 45° CASE OR $7/10$ RULE. DISTANCE OFF AT SECOND BEARING IS EQUAL TO DISTANCE RUN BETWEEN BEARINGS; ALSO, PREDICTED DISTANCE OFF WHEN ABEAM IS EQUAL TO $7/10$ THE DISTANCE RUN BETWEEN BEARINGS.

4. THE 30° - 60° CASE OR $7/8$ RULE. DISTANCE OFF AT SECOND BEARING IS EQUAL TO DISTANCE RUN BETWEEN BEARINGS; ALSO, PREDICTED DISTANCE OFF WHEN ABEAM IS EQUAL TO $7/8$ THE DISTANCE RUN BETWEEN BEARINGS.

5. THE $26\frac{1}{2}^{\circ}$ - 45° CASE. PREDICTED DISTANCE OFF WHEN ABEAM IS EQUAL TO THE RUN BETWEEN BEARINGS.

6. THE $22\frac{1}{2}^{\circ}$ - $26\frac{1}{2}^{\circ}$ CASE. PREDICTED DISTANCE OFF WHEN ABEAM IS EQUAL TO $7/3$ THE DISTANCE RUN BETWEEN BEARINGS.

DISTANCE BY VELOCITY

$$\text{DISTANCE (FT)} = \frac{D}{2-AN} \times \text{HEIGHT (FT)}$$