

37 Angle DAB has measure $180^\circ - 118^\circ - 28^\circ = 34^\circ$.

$$\frac{BD}{\sin 34^\circ} = \frac{24.2}{\sin 28^\circ} \Rightarrow BD = \frac{24.2 \sin 34^\circ}{\sin 28^\circ} \approx 28.8 \text{ ft}$$