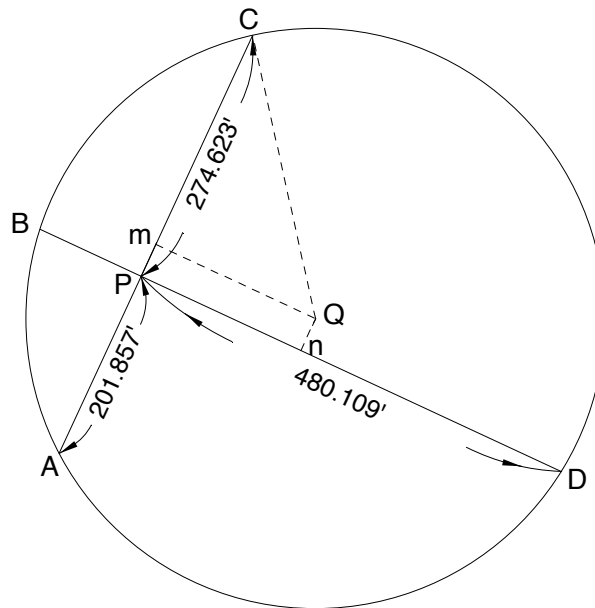


Solution
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by David Lindell, LS



When two chords intersect at right angles the product of their parts is equal.

$BP \cdot PD = AP \cdot PC$, so that

$$BP = \frac{201.857 \cdot 274.623}{480.109} = 115.4625$$

The radius point, Q, must be at right angles to the midpoint, m & n, of each chord:

$$Am = mC = \frac{201.857 + 274.623}{2} = 238.240,$$

$$\text{making } Pm = nQ = 274.623 - 238.240 = 36.383$$

$$Dn = nB = \frac{480.109 + 115.4625}{2} = 297.7858$$

$$\text{making } Pn = mQ = 480.109 - 297.7858 = 182.3232$$

$$\overline{mC}^2 + \overline{mQ}^2 = \overline{cQ}^2$$

$$238.240^2 + 182.3232^2 = 90,000.047, \quad cQ = 300.0001$$