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|-----------------|---------------|------------------|-----------------------|---------------|---------------|--------------|--------------|
| $O_2O_4 = 1.00$ | $L_2 = 0.450$ | $L_3 = 0.990$ | $L_6 = 0.325$ | $L_7 = 0.938$ | $L_8 = 0.572$ | $CD = 0.325$ | $CE = 1.145$ |
| | $DE = 0.823$ | $O_4O_6 = 0.419$ | $O_4B = O_4C = 0.590$ | | | | |

FIGURE 3-36

Eightbar linkage with $\pm 360^\circ$ oscillatory rotation of link 8 when crank 2 revolves fully (Source: Hain⁽²²⁾ pp. 368-370)

- 6-78 Figure 3-36 (p. 144) shows an eightbar mechanism. Find all its instant centers in the position shown in part (a) of the figure.
- 6-79 Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or *TKSolver* to calculate and plot the angular velocity of link 8 in the linkage of Figure 3-36 (p. 144) as a function of θ_2 for a constant $\omega_2 = 1$ rad/sec CCW.