$$\Psi_{87} = C_1 \left(i \left| 002d \right\rangle - \left| 00d2 \right\rangle - i \left| 020d \right\rangle - \left| 02d0 \right\rangle + i \left| 0d02 \right\rangle - i \left| 0d20 \right\rangle + i \left| 200d \right\rangle + \left| 20d0 \right\rangle - i \left| 2d00 \right\rangle + \left| d002 \right\rangle - \left| d020 \right\rangle + \left| d200 \right\rangle \right)$$

$$C_1 = \frac{-1}{2\sqrt{3}}$$