Optimal solution: (stylized map)
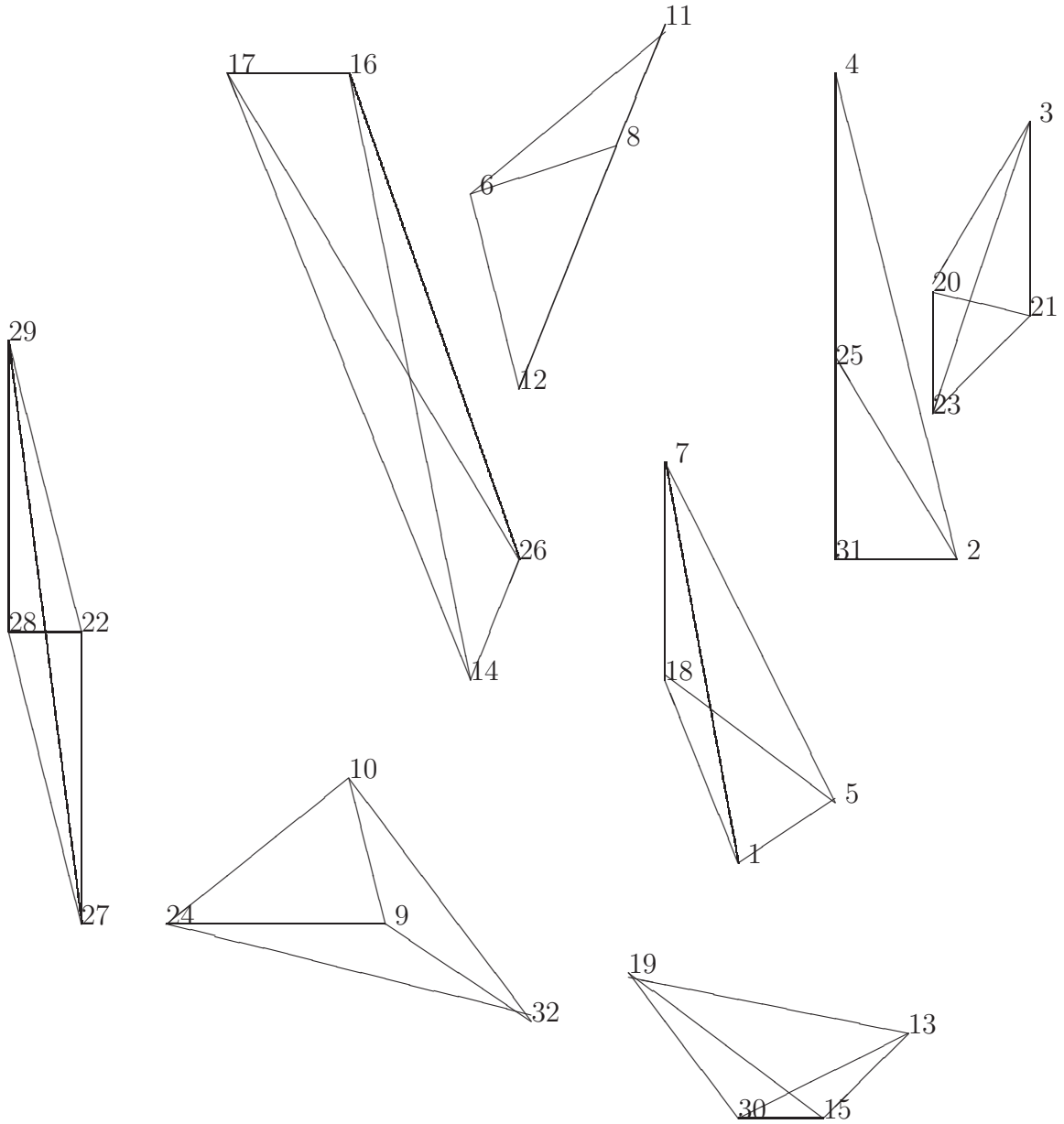
Optimal value: 27957 km
(confirmed by CPLEX)

Figure 1: Optimal solution for the unrestricted problem