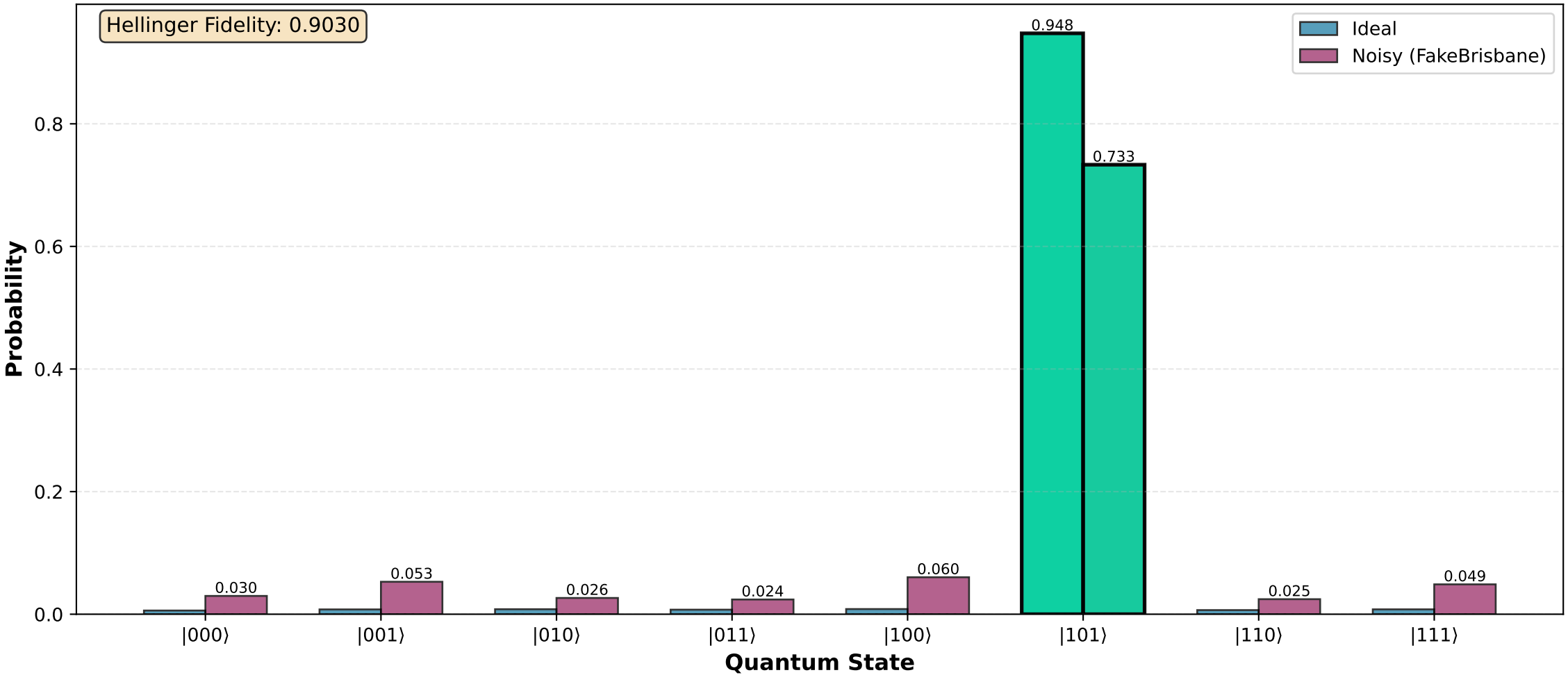
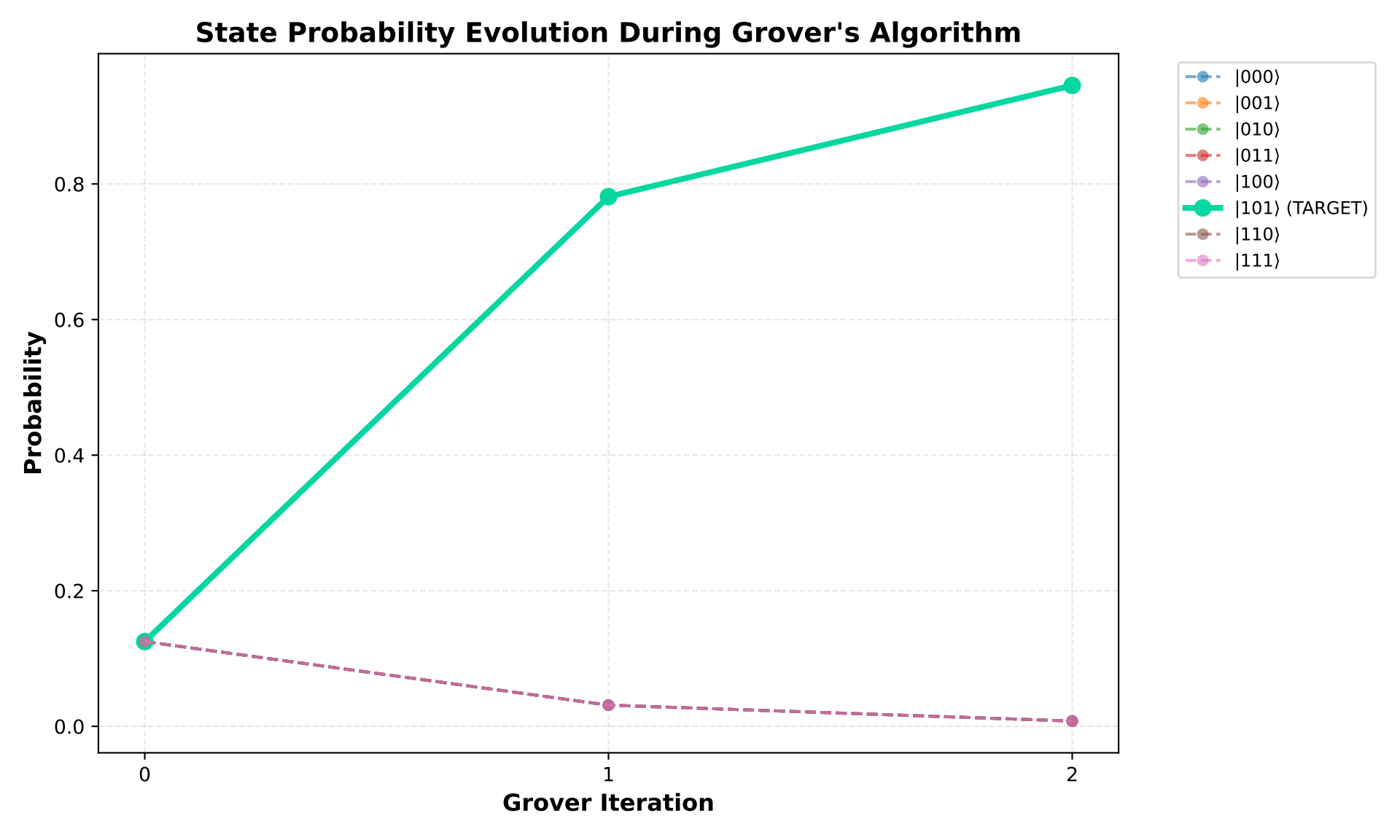

Grover's Algorithm: Ideal vs Noisy Simulation
Target State: |101⟩
Hellinger Fidelity: 0.9030
Ideal
Noisy (FakeBrisbane)
Probability
Quantum State
0.0
0.2
0.4
0.6
0.8
|000⟩
|001⟩
|010⟩
|011⟩
|100⟩
|101⟩
|110⟩
|111⟩
0.030
0.053
0.026
0.024
0.060
0.948
0.733
0.025
0.049


State Probability Evolution During Grover's Algorithm
Probability
0.0
0.2
0.4
0.6
0.8
0
1
2
Grover Iteration
|000⟩
|001⟩
|010⟩
|011⟩
|100⟩
|101⟩ (TARGET)
|110⟩
|111⟩

Grover's Benchmark Report

Generated: 2026-02-05 07:39:07

Source Data: grover_benchmark_20260205_073905.csv

Hellinger Fidelity: 0.903035