Table 1: Performance Results for Styblinski Tang
\ $_5DProblem$

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Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
GD	-1.92×10^{2}	8.48	-1.96×10^{2}	-1.53×10^{2}	106.8	0.0	0.003
QQN-StrongWolfe	-1.89×10^{2}	9.46	-1.96×10^{2}	-1.68×10^{2}	225.4	0.0	0.006
QQN-CubicQuadraticInterpolation	-1.89×10^{2}	9.46	-1.96×10^{2}	-1.53×10^{2}	276.3	0.0	0.009
QQN-Bisection-2	-1.89×10^{2}	9.48	-1.96×10^{2}	-1.68×10^{2}	270.1	0.0	0.005
QQN-GoldenSection	-1.89×10^{2}	9.48	-1.96×10^{2}	-1.68×10^{2}	461.5	0.0	0.007
QQN-Backtracking	-1.88×10^{2}	9.46	-1.96×10^{2}	-1.68×10^{2}	135.4	0.0	0.003
Trust Region-Standard	-1.88×10^{2}	2.03×10^{1}	-1.96×10^{2}	-1.04×10^{2}	583.8	0.0	0.004
L-BFGS-Conservative	-1.87×10^{2}	1.13×10^{1}	-1.96×10^{2}	-1.53×10^{2}	547.4	0.0	0.013
GD-WeightDecay	-1.87×10^{2}	1.21×10^{1}	-1.96×10^{2}	-1.53×10^{2}	72.8	0.0	0.002
QQN-Bisection-1	-1.87×10^{2}	1.04×10^{1}	-1.96×10^{2}	-1.65×10^{2}	350.3	0.0	0.006
L-BFGS	-1.86×10^{2}	1.05×10^{1}	-1.96×10^{2}	-1.60×10^{2}	162.8	0.0	0.002
Adam-Fast	-1.83×10^{2}	8.69	-1.88×10^{2}	-1.62×10^{2}	72.2	0.0	0.001
GD-Nesterov	-1.79×10^{2}	1.84×10^{1}	-1.96×10^{2}	-1.13×10^{2}	62.1	0.0	0.002
GD-Momentum	-1.68×10^{2}	2.89×10^{1}	-1.96×10^{2}	-9.41×10^{1}	69.0	0.0	0.002
QQN-MoreThuente	-1.66×10^{2}	4.65×10^{1}	-1.96×10^{2}	-4.50×10^{1}	349.9	0.0	0.009
L-BFGS-Aggressive	-9.88×10^{1}	3.53×10^{1}	-1.65×10^{2}	-2.37×10^{1}	775.7	0.0	0.007
Trust Region-Adaptive	-5.05×10^{1}	7.73×10^{-1}	-5.24×10^{1}	-4.93×10^{1}	602.0	0.0	0.004
Adam-WeightDecay	-3.39×10^{1}	2.55	-3.76×10^{1}	-2.75×10^{1}	502.0	0.0	0.011
Adam	-6.74	1.55	-1.02×10^{1}	-3.86	502.0	0.0	0.010
Adam-AMSGrad	-6.62	1.45	-9.24	-4.01	502.0	0.0	0.011
Trust Region-Conservative	-2.71	6.60×10^{-1}	-4.44	-1.25	602.0	0.0	0.004