Table 1: Performance Results for NoisySphere_10D_sigma 0.01 Problem

Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
QQN-	9.08e0	1.54e0	4.69e0	1.10e1	55.0	45.0	0.016
Bisection-1	0.0000						0.020
L-BFGS-	9.49e0	1.72e-1	9.16e0	9.70e0	93.8	85.0	0.006
Conservative							
Adam-	1.04e1	4.40e-1	9.79e0	1.14e1	28.9	0.0	0.006
WeightDecay							
Adam-	1.04e1	6.28e-1	9.75e0	1.18e1	18.9	0.0	0.004
AMSGrad							
Adam	1.07e1	5.64e-1	9.87e0	1.20e1	18.2	0.0	0.003
Adam-Robust	1.05e1	6.12e-1	9.71e0	1.19e1	18.1	5.0	0.003
GD	1.10e1	7.03e-1	9.54e0	1.19e1	10.2	10.0	0.003
GD-	1.03e1	7.39e-1	9.45e0	1.20e1	8.0	35.0	0.002
AdaptiveMomentum							
L-BFGS	2.28e1	1.18e1	7.46e0	4.18e1	31.4	20.0	0.002
GD-Nesterov	1.09e1	8.10e-1	9.63e0	1.25e1	7.5	15.0	0.002
L-BFGS-	9.77e0	1.48e0	6.61e0	1.14e1	12.4	10.0	0.002
MoreThuente							
GD-Momentum	1.11e1	9.34e-1	9.66e0	1.26e1	6.8	10.0	0.002
QQN-	1.03e1	5.55e-1	9.18e0	1.11e1	22.1	5.0	0.002
GoldenSection							
GD-	1.10e1	7.21e-1	9.66e0	1.25e1	6.0	5.0	0.002
WeightDecay							
QQN-	9.41e0	1.31e0	7.23e0	1.10e1	19.9	25.0	0.002
StrongWolfe							
Adam-Fast	1.11e1	1.47e0	9.46e0	1.54e1	9.7	15.0	0.002
L-BFGS-	9.06e0	1.17e0	6.79e0	1.08e1	32.2	45.0	0.002
Limited		0.04			0.4		0.004
Trust Region-	1.04e1	3.84e-1	9.82e0	1.13e1	6.4	0.0	0.001
Conservative	1001	0.04			4.0		0.004
Trust Region-	1.06e1	3.31e-1	9.93e0	1.12e1	4.8	0.0	0.001
Precise	1.00.1	F 00 1	0.75.0	1 11 1	F 4	0.0	0.001
L-BFGS-	1.06e1	5.02e-1	9.75e0	1.11e1	5.4	0.0	0.001
Aggressive	1.04-1	F 4F - 1	0.77-0	1 1 / - 1	2.5	0.0	0.001
Trust Region-	1.04e1	5.45e-1	9.77e0	1.14e1	3.5	0.0	0.001
Aggressive	1.06e1	5.93e-1	9.80e0	1 16.1	3.2	0.0	0.000
Trust Region- Standard	1.00e1	5.95e-1	9.80e0	1.16e1	3.2	0.0	0.000
QQN-	1.04-1	1.61e-1	1.02-1	1.07.1	1.0	0.0	0.000
QQN- CubicQuadraticIn	1.04e1	1.016-1	1.03e1	1.07e1	1.9	0.0	0.000
Trust Region-	terpolation 1.04e1	6.06e-1	9.73e0	1.17e1	2.8	0.0	0.000
Adaptive	1.0401	0.00e-1	9.73eU	1.1761	2.0	0.0	0.000
Auapuve							