

Overall Performance Comparison

Combination	Avg Fitness	Avg Time (s)	Avg Gap to BKS (%)
Baseline_Short	1449.9	35.00	3.09%
LS_Set2_Ranking	1461.6	91.02	3.43%
Baseline_Long	1472.7	52.75	4.24%
No_Mutation	1476.5	28.72	4.43%
No_LocalSearch	1629.9	38.02	11.04%
LS_Set2_OneShot	2236.5	43.48	36.81%
LS_Set2_LS_Init	2380.1	50.36	99.18%
LS_Set2_Shorter	13448.4	56.93	881.33%