

Instance	LP Relaxation Bound			MIP Lower Bound		
	OCI	Cliques	OCI+Cliques	OCI	Cliques	OCI+Cliques
50 – 200 – 199	0.0	0.0	0.0	0.0	0.0	0.0
50 – 200 – 398	1.7	1.4	1.4	0.1	0.0	0.0
50 – 200 – 597	2.3	0.7	2.0	0.1	0.0	0.1
50 – 200 – 995	22.9	7.1	23.3	0.0	0.0	0.0
100 – 300 – 448	0.0	0.0	0.0	0.0	0.0	0.0
100 – 300 – 897	6.2	2.4	6.4	0.0	0.0	0.0
100 – 300 – 1344	18.3	6.5	18.5	-1.5	2.8	-0.9
100 – 500 – 1247	0.0	0.0	0.1	0.0	0.0	0.0
100 – 500 – 2495	6.6	1.6	6.6	0.0	0.0	-0.7
100 – 500 – 3741	17.0	7.6	17.0	2.6	4.6	2.7
100 – 500 – 6237	30.4	23.0	30.8	13.5	15.9	14.6
100 – 500 – 12474	44.1	62.2	62.8	6.3	19.8	14.1
200 – 600 – 1797	3.7	0.7	3.7	-0.5	-0.1	-1.2
200 – 600 – 3594	26.2	10.5	26.2	14.2	7.2	16.5
200 – 800 – 3196	3.2	0.8	3.4	-0.9	0.5	-0.4
200 – 800 – 6392	24.1	9.1	24.0	18.6	8.5	18.8
200 – 800 – 9588	38.5	31.2	39.2	26.5	24.2	26.4
200 – 800 – 15980	48.1	52.6	53.7	31.8	46.0	37.8
300 – 1000 – 4995	15.8	3.3	15.8	12.5	2.8	12.0
300 – 1000 – 9990	33.8	21.8	33.8	26.9	17.0	25.4
Average	17.2	12.1	18.4	7.5	7.5	8.3