

RESULTS OF MCER- k FOR INSTANCES CM1-CM9

Instance				Optimal Solution		Performance metrics						
Name	n	m	k	Selected Ellipses	Income	CLS size $ S_k $	# E3P subproblems	Backtracking Tree		CPU Time (s)		
								# nodes	#sol leaves	CLS-MCER	Total	
CM1			1	2	2.8	27		91	61	0.08	0.08	
CM2	25	3	2	1,2	4.8	24	340	231	98	0.08	0.08	
CM3			3	1,2,3	5.0	37		416	148	0.08	0.08	
CM4			1	2	5.8	70		307	208	0.48	0.48	
CM5	50	3	2	2,3	10.0	93	2028	212	115	0.48	0.48	
CM6			3	1,2,3	13.0	115		651	115	0.49	0.49	
CM7			1	3	13.2	204		736	730	5.93	5.93	
CM8	100	3	2	2,3	22.0	370	18,693	1834	1460	5.99	5.99	
CM9			3	1,2,3	28.0	730		13,838	3643	5.91	5.93	