

		TD-FSMLRP - Mathematical model with IS and VIs						
		Instance	Best IS	Upper bound	Lower bound	GAP (%)	Time (s)	
10 CUSTOMERS	3 DEPOTS	SMALL	S_10_3_01	18034.50	18031.30	18029.50	0.01	870
			S_10_3_02	18510.90	18510.90	18509.20	0.01	46
			S_10_3_03	20423.70	20423.70	20421.90	0.01	2
			S_10_3_04	18590.20	18585.80	18585.60	0.00	9
			S_10_3_05	21801.70	21798.90	21796.70	0.01	427
			Average	19472.20	19470.12	19468.58	0.01	271
		MEDIUM	M_10_3_01	17795.00	17777.20	17775.50	0.01	9049
			M_10_3_02	18525.50	18520.90	18519.10	0.01	132
			M_10_3_03	19302.60	19291.60	19289.60	0.01	38
			M_10_3_04	20537.40	20528.20	20526.20	0.01	85
			M_10_3_05	20772.40	19936.80	19899.60	0.19	10800
			Average	19386.58	19210.94	19202.00	0.05	4021
		LARGE	L_10_3_01	21457.60	21454.90	21452.80	0.01	639
			L_10_3_02	19246.60	19246.50	19244.60	0.01	700
			L_10_3_03	18226.90	18226.80	18225.00	0.01	1661
			L_10_3_04	19330.00	19314.70	19312.70	0.01	1550
			L_10_3_05	21406.60	21402.30	21400.10	0.01	6417
			Average	19933.54	19929.04	19927.04	0.01	2193
	5 DEPOTS	SMALL	S_10_5_01	18494.50	18491.60	18490.00	0.01	91
			S_10_5_02	23096.50	22358.20	22356.10	0.01	97
			S_10_5_03	18076.20	18067.30	18065.50	0.01	6493
			S_10_5_04	17207.10	17202.70	17201.00	0.01	1219
			S_10_5_05	17532.50	17524.80	17523.10	0.01	301
			Average	18881.36	18728.92	18727.14	0.01	1640
		MEDIUM	M_10_5_01	17619.40	17619.00	17122.10	2.82	10800
			M_10_5_02	17588.60	17577.90	17068.80	2.90	10800
			M_10_5_03	17585.50	16730.70	16195.10	3.20	10800
			M_10_5_04	17856.40	17854.40	17852.60	0.01	8843
			M_10_5_05	16956.70	16946.10	16944.50	0.01	826
			Average	17521.32	17345.62	17036.62	1.79	8414
		LARGE	L_10_5_01	19468.20	19464.00	19462.10	0.01	189
			L_10_5_02	16708.00	16701.50	16699.80	0.01	1469
			L_10_5_03	18398.30	18396.00	18382.90	0.07	10800
			L_10_5_04	18211.20	17995.10	17993.30	0.01	1718
			L_10_5_05	17453.90	16967.60	16930.70	0.22	10800
			Average	18047.92	17904.84	17893.76	0.06	4995

		TD-FSMLRP - Mathematical model with IS and VIs						
		Instance	Best IS	Upper bound	Lower bound	GAP (%)	Time (s)	
20 CUSTOMERS	3 DEPOTS	SMALL	S_20_3_01	20988.60	20977.30	20954.40	0.11	10800
			S_20_3_02	23361.50	21541.70	20904.30	2.96	10800
			S_20_3_03	18852.60	18833.70	18195.30	3.39	10800
			S_20_3_04	21409.40	21345.30	21300.90	0.21	10800
			S_20_3_05	23031.00	22542.20	22469.60	0.32	10800
			Average	21528.62	21048.04	20764.90	1.40	10800
		MEDIUM	M_20_3_01	23043.50	22526.20	21368.00	5.14	10800
			M_20_3_02	20513.30	20488.10	19406.90	5.28	10800
			M_20_3_03	18803.40	18803.00	18126.00	3.60	10800
			M_20_3_04	20146.80	20132.00	19060.50	5.32	10800
			M_20_3_05	20554.30	20532.00	19439.50	5.32	10800
			Average	20612.26	20496.26	19480.18	4.93	10800
		LARGE	L_20_3_01	19334.70	17794.60	17111.40	3.84	10800
			L_20_3_02	25030.70	24285.80	23075.30	4.98	10800
			L_20_3_03	20321.60	20321.60	19658.20	3.26	10800
			L_20_3_04	19657.50	19253.30	18509.90	3.86	10800
			L_20_3_05	21994.70	21505.00	20934.40	2.65	10800
			Average	21267.84	20632.06	19857.84	3.72	10800
	5 DEPOTS	SMALL	S_20_5_01	20843.30	20290.10	20222.90	0.33	10800
			S_20_5_02	20719.40	20718.80	19648.00	5.17	10800
			S_20_5_03	22574.20	22120.90	22010.80	0.50	10800
			S_20_5_04	20999.30	20929.10	19860.20	5.11	10800
			S_20_5_05	19809.20	18806.20	18678.30	0.68	10800
			Average	20989.08	20573.02	20084.04	2.36	10800
		MEDIUM	M_20_5_01	19999.30	19464.40	19338.80	0.65	10800
			M_20_5_02	22411.10	19468.60	18242.20	6.30	10800
			M_20_5_03	19389.20	19375.30	18237.00	5.88	10800
			M_20_5_04	20144.70	19088.90	19001.60	0.46	10800
			M_20_5_05	19992.90	19990.40	19426.90	2.82	10800
			Average	20387.44	19477.52	18849.30	3.22	10800
		LARGE	L_20_5_01	21181.00	21181.00	21104.30	0.36	10800
			L_20_5_02	20989.70	20939.80	20309.80	3.01	10800
			L_20_5_03	18561.40	18561.40	17815.50	4.02	10800
			L_20_5_04	20923.20	20524.30	18734.40	8.72	10800
			L_20_5_05	19137.10	18731.90	18584.90	0.78	10800
			Average	20158.48	19987.68	19309.78	3.38	10800

		TD-FSMLRP - Mathematical model with IS and VIs						
		Instance	Best IS	Upper bound	Lower bound	GAP (%)	Time (s)	
50 CUSTOMERS	3 DEPOTS	SMALL	S_50_3_01	34904.90	27606.70	24444.50	11.45	10800
			S_50_3_02	32438.30	31919.00	28912.20	9.42	10800
			S_50_3_03	28366.90	28366.70	25976.70	8.43	10800
			S_50_3_04	25046.20	25042.90	24297.00	2.98	10800
			S_50_3_05	34102.00	29189.20	23576.30	19.23	10800
			Average	30971.66	28424.90	25441.34	10.30	10800
		MEDIUM	M_50_3_01	30550.30	30541.90	26627.80	12.82	10800
			M_50_3_02	26374.70	26362.50	25432.00	3.53	10800
			M_50_3_03	32151.40	32129.40	28207.60	12.21	10800
			M_50_3_04	26859.70	26859.70	25964.10	3.33	10800
			M_50_3_05	37798.00	28244.70	24990.90	11.52	10800
			Average	30746.82	28827.64	26244.48	8.68	10800
		LARGE	L_50_3_01	28406.20	27961.20	25995.20	7.03	10800
			L_50_3_02	29140.70	29140.70	25588.80	12.19	10800
			L_50_3_03	37040.50	37040.20	24918.10	32.73	10800
			L_50_3_04	27276.60	27274.60	24310.70	10.87	10800
			L_50_3_05	40934.70	29836.40	29125.70	2.38	10800
			Average	32559.74	30250.62	25987.70	13.04	10800
	5 DEPOTS	SMALL	S_50_5_01	29213.20	29149.90	26669.00	8.51	10800
			S_50_5_02	28451.90	27427.40	23814.10	13.17	10800
			S_50_5_03	28482.60	28478.60	24262.10	14.81	10800
			S_50_5_04	28375.20	28375.20	26130.60	7.91	10800
			S_50_5_05	28093.50	28061.00	22524.50	19.73	10800
			Average	28523.28	28298.42	24680.06	12.83	10800
		MEDIUM	M_50_5_01	25794.70	25794.70	24757.60	4.02	10800
			M_50_5_02	30893.20	28111.30	24879.80	11.50	10800
			M_50_5_03	31647.60	31634.70	26509.50	16.20	10800
			M_50_5_04	31541.10	31541.10	22668.00	28.13	10800
			M_50_5_05	28557.00	28557.00	22894.20	19.83	10800
			Average	29686.72	29127.76	24341.82	15.94	10800
		LARGE	L_50_5_01	29186.90	29173.00	25059.30	14.10	10800
			L_50_5_02	27094.80	27094.70	22947.00	15.31	10800
			L_50_5_03	30368.80	30368.80	25659.40	15.51	10800
			L_50_5_04	28015.70	28006.40	23465.20	16.21	10800
			L_50_5_05	27871.80	27871.80	24233.70	13.05	10800
			Average	28507.60	28502.94	24272.92	14.84	10800

		TD-FSMLRP - Mathematical model with IS and VIs						
		Instance	Best IS	Upper bound	Lower bound	GAP (%)	Time (s)	
80 CUSTOMERS	3 DEPOTS	SMALL	S_80_3_01	41519.60	41514.80	30386.00	26.81	10800
			S_80_3_02	46020.20	46019.80	33437.10	27.34	10800
			S_80_3_03	40191.10	40182.40	26642.50	33.70	10800
			S_80_3_04	40521.00	40520.40	29359.80	27.54	10800
			S_80_3_05	43018.30	43018.20	30715.80	28.60	10800
			Average	42254.04	42251.12	30108.24	28.80	10800
		MEDIUM	M_80_3_01	43118.30	43117.30	29940.80	30.56	10800
			M_80_3_02	39391.40	39391.40	27841.60	29.32	10800
			M_80_3_03	42134.50	42107.80	29290.60	30.44	10800
			M_80_3_04	35699.30	35679.60	31209.40	12.53	10800
			M_80_3_05	40397.60	40397.60	28789.70	28.73	10800
			Average	40148.22	40138.74	29414.42	26.32	10800
		LARGE	L_80_3_01	44375.10	44375.00	30651.20	30.93	10800
			L_80_3_02	41494.20	41494.20	28637.70	30.98	10800
			L_80_3_03	44169.50	44168.40	30729.90	30.43	10800
			L_80_3_04	40444.30	40436.50	27004.90	33.22	10800
			L_80_3_05	44697.60	44697.60	30431.30	31.92	10800
			Average	43036.14	43034.34	29491.00	31.49	10800
	5 DEPOTS	SMALL	S_80_5_01	33949.70	33935.70	27718.70	18.32	10800
			S_80_5_02	34354.20	33856.50	27105.80	19.94	10800
			S_80_5_03	32459.50	32457.50	28186.60	13.16	10800
			S_80_5_04	33006.00	33000.30	29241.80	11.39	10800
			S_80_5_05	33408.80	33408.80	26169.00	21.67	10800
			Average	33435.64	33331.76	27684.38	16.90	10800
		MEDIUM	M_80_5_01	37594.00	37592.60	26169.50	30.39	10800
			M_80_5_02	35233.40	35229.70	31240.20	11.32	10800
			M_80_5_03	31197.70	31197.70	28107.10	9.91	10800
			M_80_5_04	37597.40	37597.40	29334.10	21.98	10800
			M_80_5_05	36781.60	36775.10	29582.20	19.56	10800
			Average	35680.82	35678.50	28886.62	18.63	10800
		LARGE	L_80_5_01	39498.80	39497.20	28157.70	28.71	10800
			L_80_5_02	35856.00	35799.80	29658.10	17.16	10800
			L_80_5_03	39724.30	39724.30	33206.30	16.41	10800
			L_80_5_04	35528.70	35528.70	29567.20	16.78	10800
			L_80_5_05	38740.60	38739.30	27809.60	28.21	10800
			Average	37869.68	37857.86	29679.78	21.45	10800

		TD-FSMLRP - Mathematical model with IS and VIs						
		Instance	Best IS	Upper bound	Lower bound	GAP (%)	Time (s)	
100 CUSTOMERS	3 DEPOTS	SMALL	S_100_3_01	41876.20	41875.40	30471.40	27.23	10800
			S_100_3_02	51586.00	51074.40	36462.70	28.61	10800
			S_100_3_03	50897.20	50896.30	34812.10	31.60	10800
			S_100_3_04	47824.50	47824.50	32360.80	32.33	10800
			S_100_3_05	39638.70	39634.70	34269.70	13.54	10800
			Average	46364.52	46261.06	33675.34	26.66	10800
		MEDIUM	M_100_3_01	44438.40	44438.40	31809.60	28.42	10800
			M_100_3_02	45114.70	45112.70	32152.50	28.73	10800
			M_100_3_03	39014.00	39014.00	35295.70	9.53	10800
			M_100_3_04	48117.50	48117.50	33558.30	30.26	10800
			M_100_3_05	47253.90	47251.40	34061.10	27.92	10800
			Average	44787.70	44786.80	33375.44	24.97	10800
		LARGE	L_100_3_01	49885.60	49885.60	35809.40	28.22	10800
			L_100_3_02	48513.50	48016.20	34381.00	28.40	10800
			L_100_3_03	48874.90	48874.80	35106.40	28.17	10800
			L_100_3_04	47549.90	47548.40	33903.50	28.70	10800
			L_100_3_05	47478.70	47478.70	32448.40	31.66	10800
			Average	48460.52	48360.74	34329.74	29.03	10800
	5 DEPOTS	SMALL	S_100_5_01	38682.70	38167.60	31606.70	17.19	10800
			S_100_5_02	37170.50	37170.00	29403.00	20.90	10800
			S_100_5_03	43567.60	43563.30	32794.20	24.72	10800
			S_100_5_04	42184.80	42184.80	34838.90	17.41	10800
			S_100_5_05	41544.50	41108.20	29874.00	27.33	10800
			Average	40630.02	40438.78	31703.36	21.51	10800
		MEDIUM	M_100_5_01	44846.10	44846.10	32564.40	27.39	10800
			M_100_5_02	39125.10	39120.10	32402.90	17.17	10800
			M_100_5_03	38767.00	38767.00	32566.60	15.99	10800
			M_100_5_04	36575.90	36536.30	30855.50	15.55	10800
			M_100_5_05	42739.00	42735.70	33261.20	22.17	10800
			Average	40410.62	40401.04	32330.12	19.65	10800
		LARGE	L_100_5_01	35152.50	35146.50	29388.50	16.38	10800
			L_100_5_02	33798.90	33798.30	30299.20	10.35	10800
			L_100_5_03	38896.70	38896.70	32105.70	17.46	10800
			L_100_5_04	39332.20	39332.10	32287.40	17.91	10800
			L_100_5_05	38314.10	38306.00	32730.80	14.55	10800
			Average	37098.88	37095.92	31362.32	15.33	10800