

Results for R instances (CVRP)

Keld Helsgaun, November 19, 2017

Instance	BKS	LKH-3	LKH-3 d	Gap (%)
R-E016-03m	278.73	278.726	278.73	0.00
R-E016-05m	334.96	334.964	334.96	0.00
R-E021-04m	358.40	358.403	358.40	0.00
R-E021-06m	430.88	430.887	430.88	0.00
R-E022-04g	375.28	375.282	375.28	0.00
R-E022-06m	495.85	495.848	495.85	0.00
R-E023-03g	568.56	568.564	568.56	0.00
R-E023-05s	620.60	620.602	620.60	0.00
R-E026-08m	607.65	607.651	607.65	0.00
R-E030-03g	535.80	535.796	535.80	0.00
R-E030-04s	505.01	505.012	505.01	0.00
R-E031-09h	610.00	610.003	610.00	0.00
R-E033-03n	2006.34	2006.345	2006.34	0.00
R-E033-04g	837.67	837.672	837.67	0.00
R-E033-05s	904.55	904.547	904.55	0.00
R-E036-11h	698.61	698.606	698.61	0.00
R-E041-14h	862.62	861.788	861.79	-0.10
R-E045-04f	723.54	723.541	723.54	0.00
R-E048-04y	40000.35	40001.353	40001.35	0.00
R-E051-05e	524.61	524.612	524.61	0.00
R-E072-04f	241.97	241.973	241.97	0.00
R-E076-07s	687.60	687.601	687.60	0.00
R-E076-07u	690.80	687.601	687.60	-0.46
R-E076-08s	740.65	740.654	740.66	0.00
R-E076-08u	742.58	740.654	740.66	-0.26
R-E076-10e	835.26	835.260	835.26	0.00
R-E076-14s	1028.36	1024.691	1024.69	-0.36
R-E076-14u	1028.79	1024.691	1024.69	-0.40
R-E076-15s	1024.41	1024.406	1024.40	0.00
R-E076A10r	1618.35	1618.352	1618.36	0.00
R-E076B09r	1355.18	1355.183	1355.18	0.00
R-E076C09r	1291.01	1291.008	1291.01	0.00
R-E076D09r	1365.42	1365.421	1365.42	0.00
R-E101-08e	826.14	826.132	826.14	0.00
R-E101-10c	819.56	819.557	819.56	0.00
R-E101-14s	1090.28	1082.646	1082.65	-0.70
R-E101-14u	1091.09	1086.362	1082.65	-0.77
R-E101A11r	2041.33	2041.334	2041.34	0.00
R-E101B11r	1940.35	1940.355	1940.36	0.00
R-E101C11r	1406.20	1406.198	1406.20	0.00
R-E101D11r	1581.25	1580.460	1580.46	-0.05

R-E121-07c	1042.11	1042.108	1042.12	0.00
R-E135-07f	1162.96	1162.955	1162.96	0.00
R-E151-12b	1029.48	1029.308	1029.31	-0.02
R-E151-12c	1031.07	1030.142	1030.15	-0.09
R-E151A15r	3055.23	3055.230	3055.23	0.00
R-E151B14r	2728.11	2728.111	2728.11	0.00
R-E151C14r	2366.59	2362.758	2362.76	-0.16
R-E151D14r	2645.56	2645.563	2645.56	0.00
R-E200-16b	1319.26	1312.556	1312.56	-0.51
R-E200-16c	1336.76	1311.996	1312.00	-1.85
R-E200-17b	1291.29	1291.437	<i>1291.45</i>	<i>0.01</i>
R-E200-17c	1309.10	1295.105	1295.11	-1.07
R-E241-22k	707.74	707.740	707.76	0.00
R-E253-27k	857.19	865.997	<i>866.01</i>	<i>1.03</i>
R-E256-14k	580.40	582.911	<i>582.96</i>	<i>0.44</i>
R-E262-25j	5572.11	5539.995	5540.00	-0.58
R-E301-28k	995.39	1006.933	<i>1006.94</i>	<i>1.16</i>
R-E321-30k	1080.55	1089.797	<i>1085.22</i>	<i>0.43</i>
R-E324-16k	738.73	743.203	<i>743.27</i>	<i>0.61</i>
R-E361-33k	1366.14	1367.637	<i>1367.64</i>	<i>0.11</i>
R-E386-47t	24581.66	24521.241	24521.23	-0.25
R-E397-34k	1340.24	1354.000	<i>1354.01</i>	<i>1.03</i>
R-E400-18k	914.75	917.381	<i>917.46</i>	<i>0.30</i>
R-E421-41k	1819.99	1852.131	<i>1852.13</i>	<i>1.77</i>
R-E481-38k	1616.33	1629.965	<i>1629.98</i>	<i>0.84</i>
R-E484-19k	1106.33	1114.818	<i>1114.91</i>	<i>0.78</i>