				First-order	Norm of
Iter	F-count	f(x)	Feasibility	optimality	step
0	7	9.834383e+02	0.000e+00	1.887e+02	-
1	18	1.952489e+02	2.069e+00	2.330e+02	2.426e+00
2	27	1.707816e+02	8.280e+00	2.475e+03	6.765e-01
3	42	1.267456e+02	6.303e+00	1.857e+02	8.962e-02
4	50	1.226071e+02	6.135e+00	2.017e+02	1.571e-01
5	58	1.073713e+02	7.819e+00	3.429e+02	4.888e-01
6	83	1.069732e+02	3.932e+00	6.068e+01	4.775e-03
7	91	1.068324e+02	3.925e+00	6.001e+01	6.775e-03
8	100	1.046438e+02	3.346e+00	4.812e+01	5.433e-01
9	109	1.029186e+02	2.767e+00	5.464e+02	7.182e-01
10	140	1.029066e+02	2.160e+00	1.975e+01	6.758e-04
11	149	1.029052e+02	2.159e+00	1.973e+01	7.176e-04
12	163	1.028964e+02	1.219e+00	2.053e+01	6.165e-04
13	172	1.028927e+02	1.198e+00	2.048e+01	1.414e-03
14	189	1.028855e+02	7.819e-01	2.097e+01	5.022e-04
15	198	1.028809e+02	7.370e-01	2.090e+01	1.383e-03
16	215	1.028742e+02	2.741e-01	2.104e+01	3.746e-04
17	224	1.028679e+02	1.680e-01	2.094e+01	1.304e-03
18	241	1.028614e+02	7.415e-02	2.087e+01	3.220e-04
19	251	1.028577e+02	3.144e-02	2.082e+01	6.089e-04
20	268	1.028545e+02	4.448e-03	2.074e+01	1.553e-04
21	278	1.028531e+02	1.746e-03	2.072e+01	3.313e-04
22	293	1.028499e+02	4.104e-03	2.065e+01	1.547e-04
23	302	1.028487e+02	1.398e-03	2.064e+01	3.372e-04
24	317	1.028455e+02	4.069e-03	2.056e+01	1.543e-04
25	326	1.028443e+02	1.011e-03	2.055e+01	3.410e-04
26	341	1.028411e+02	4.170e-03	2.047e+01	1.541e-04
27	350	1.028401e+02	5.898e-04	2.045e+01	3.438e-04
28	367	1.028385e+02	5.273e-04	2.042e+01	7.701e-05
29	377	1.028380e+02	5.928e-04	2.041e+01	1.731e-04
30	392	1.028364e+02	5.444e-04	2.037e+01	7.700e-05
	032	1,0200010.02	0.1110 01	2.0070701	7.7.000 00
				First-order	Norm of
Iter	F-count	f(x)	Feasibility	optimality	step
31	402	1.028359e+02	4.859e-04	2.036e+01	1.739e-04
32	417	1.028344e+02	5.637e-04	2.032e+01	7.699e-05
33	427	1.028339e+02	3.734e-04	2.032e+01	1.748e-04
34	442	1.028323e+02	5.848e-04	2.028e+01	7.699e-05
35	452	1.028319e+02	2.658e-04	2.027e+01	1.756e-04
36	467	1.028303e+02	6.077e-04	2.024e+01	7.699e-05
37	477	1.028300e+02	1.616e-04	2.023e+01	1.762e-04
38	492	1.028284e+02	6.324e-04	2.019e+01	7.699e-05
39	502	1.028280e+02	6.265e-05	2.019e+01	1.768e-04
40	517	1.028264e+02	6.588e-04	2.015e+01	7.699e-05
41	527	1.028261e+02	3.455e-05	2.014e+01	1.774e-04
42	542	1.028245e+02	6.869e-04	2.010e+01	7.700e-05
43	552	1.028242e+02	1.264e-04	2.010e+01	1.779e-04
44	567	1.028226e+02	7.167e-04	2.006e+01	7.701e-05
45	576	1.028220e+02	1.140e-03	2.005e+01	3.566e-04
46	593	1.028205e+02	7.530e-04	2.001e+01	7.701e-05
47	602	1.028199e+02	8.998e-04	2.001e+01	3.574e-04

48	619	1.028183e+02	7.927e-04	1.997e+01	7.702e-05
49	628	1.028178e+02	6.710e-04	1.996e+01	3.581e-04
50	645	1.028163e+02	8.347e-04	1.992e+01	7.703e-05
51	654	1.028158e+02	4.578e-04	1.991e+01	3.587e-04
52	671	1.028142e+02	8.792e-04	1.987e+01	7.705e-05
53	680	1.028137e+02	2.528e-04	1.987e+01	3.593e-04
54	697	1.028122e+02	9.261e-04	1.983e+01	7.706e-05
55	706	1.028118e+02	5.998e-05	1.982e+01	3.598e-04
56	723	1.028102e+02	9.756e-04	1.979e+01	7.707e-05
57	732	1.028098e+02	1.194e-04	1.978e+01	3.602e-04
58	749	1.028082e+02	1.028e-03	1.974e+01	7.708e-05
59	758	1.028079e+02	2.890e-04	1.974e+01	3.606e-04
60	775	1.028063e+02	1.083e-03	1.970e+01	7.709e-05
				First-order	Norm of
Iter	F-count	f(x)	Feasibility	optimality	step
61	784	1.028060e+02	4.519e-04	1.969e+01	3.609e-04
62	801	1.028044e+02	1.141e-03	1.966e+01	7.710e-05
63	810	1.028041e+02	6.030e-04	1.965e+01	3.613e-04
64	827	1.028026e+02	1.202e-03	1.961e+01	7.711e-05
65	836	1.028022e+02	7.536e-04	1.961e+01	3.615e-04
66	853	1.028007e+02	1.267e-03	1.957e+01	7.712e-05
67	862	1.028004e+02	8.932e-04	1.957e+01	3.618e-04
68	879	1.027989e+02	1.335e-03	1.953e+01	7.713e-05
69	888	1.027986e+02	1.032e-03	1.953e+01	3.620e-04
70	905	1.027971e+02	1.408e-03	1.949e+01	7.715e-05
71	914	1.027968e+02	1.167e-03	1.948e+01	3.622e-04
72	931	1.027953e+02	1.484e-03	1.945e+01	7.716e-05
73	940	1.027951e+02	1.297e-03	1.944e+01	3.624e-04
74	947	1.020628e+02	3.262e-01	6.757e+01	2.306e+00
75	954	1.011508e+02	9.245e-01	6.440e+01	8.437e-01
76	968	1.010739e+02	5.378e-01	5.874e+01	1.889e-02
77	976	1.010327e+02	5.403e-01	5.714e+01	6.961e-02
78	983	9.864004e+01	1.345e-01	4.553e+01	1.619e+00
79	991	9.623120e+01	1.053e-01	1.054e+02	3.380e+00
80	998	9.340755e+01	1.067e-02	5.970e+01	1.321e+00
81	1005	9.196172e+01	7.412e-03	5.722e+01	1.858e+00
82	1012	9.020730e+01	4.138e-03	6.042e+01	1.412e+00
83	1019	8.909489e+01	2.947e-03	2.977e+01	9.492e-01
84	1026	8.901711e+01	1.504e-04	3.909e+01	5.746e-01
85	1033	8.901402e+01	3.328e-06	3.737e+01	2.015e-01
86	1040	8.901251e+01	6.973e-07	3.707e+01	8.125e-02
87	1047	8.900165e+01	1.621e-05	3.648e+01	3.289e-01
88	1054	8.897042e+01	1.002e-04	3.600e+01	7.807e-01
89	1061	8.892204e+01	1.366e-04	3.610e+01	8.535e-01
90	1068	8.880758e+01	3.358e-04	3.653e+01	1.352e+00
50	1000	0.000/300/01	3.3300 04	3.0330101	1.3320100
				First-order	Norm of
Iter	F-count	f(x)	Feasibility	optimality	step
91	1075	8.854828e+01	8.391e-04	3.665e+01	2.068e+00
92	1082	8.789206e+01	2.199e-03	3.310e+01	3.743e+00
93	1089	8.621534e+01	3.031e-03	1.923e+01	8.940e+00
94	1096	8.587130e+01	1.157e-03	3.840e+01	1.023e+01
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95	1103	8.526554e+01	1.283e-03	1.814e+01	4.648e+00
96	1110	8.511282e+01	2.381e-04	1.620e+01	2.471e+00
97	1117	8.462219e+01	1.253e-04	2.053e+01	1.894e+00
98	1124	8.282028e+01	1.422e-03	3.033e+01	1.187e+01
99	1131	8.283463e+01	5.141e-05	2.497e+01	5.617e+00
100	1138	8.257780e+01	8.900e-05	1.743e+01	3.270e+00
101	1145	8.228893e+01	2.926e-04	1.111e+01	3.157e+00
102	1152	8.221356e+01	2.216e-05	2.096e+01	2.347e+00
103	1159	8.214068e+01	4.091e-06	7.258e+00	5.906e-01
104	1166	8.203194e+01	3.236e-05	6.637e+00	7.928e-01
105	1173	8.174791e+01	1.304e-04	1.949e+01	2.776e+00
106	1180	8.165224e+01	6.473e-05	6.855e+00	8.644e-01
107	1187	8.143077e+01	1.944e-05	1.813e+00	1.606e+00
108	1194	8.139051e+01	3.571e-06	2.367e+00	8.556e-01
109	1201	8.139522e+01	9.228e-08	2.808e+00	1.490e-01
110	1201	8.139406e+01	4.057e-09	2.816e+00	1.232e-01
111	1215	8.139389e+01	2.561e-09	2.695e+00	2.669e-01
			4.642e-09	2.263e+00	5.048e-01
112	1222	8.139115e+01			
113	1229	8.138482e+01	2.254e-08	2.441e+00	1.004e+00
114	1236	8.137213e+01	2.416e-08	2.532e+00	1.655e+00
115	1243	8.135496e+01	3.894e-08	1.864e+00	2.118e+00
116	1250	8.134591e+01	1.287e-07	5.415e-01	1.511e+00
117	1257	8.134587e+01	2.804e-08	2.856e-01	1.646e-01
118	1264	8.126962e+01	4.344e-07	1.076e+00	2.688e-01
119	1271	8.126286e+01	1.449e-08	6.133e-01	1.570e-01
120	1278	8.126097e+01	7.991e-09	9.739e-02	4.040e-02
				T' ' '	N
T.L		£ ()	D	First-order	Norm of
	F-count	f(x)	Feasibility	optimality	step
121	1285	8.126095e+01	2.388e-11	optimality 2.074e-02	step 4.083e-02
121 122	1285 1292	8.126095e+01 8.124818e+01	2.388e-11 3.253e-08	optimality 2.074e-02 1.227e-01	step 4.083e-02 3.771e-02
121 122 123	1285 1292 1299	8.126095e+01 8.124818e+01 8.124515e+01	2.388e-11 3.253e-08 4.313e-09	optimality 2.074e-02 1.227e-01 2.562e-02	step 4.083e-02 3.771e-02 7.204e-03
121 122 123 124	1285 1292 1299 1306	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02
121 122 123 124 125	1285 1292 1299 1306 1313	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03
121 122 123 124 125 126	1285 1292 1299 1306 1313 1320	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02
121 122 123 124 125 126 127	1285 1292 1299 1306 1313	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03
121 122 123 124 125 126 127	1285 1292 1299 1306 1313 1320 1327 1334	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03
121 122 123 124 125 126 127 128 129	1285 1292 1299 1306 1313 1320 1327 1334 1341	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02
121 122 123 124 125 126 127 128 129 130	1285 1292 1299 1306 1313 1320 1327 1334	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03
121 122 123 124 125 126 127 128 129	1285 1292 1299 1306 1313 1320 1327 1334 1341	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03
121 122 123 124 125 126 127 128 129 130	1285 1292 1299 1306 1313 1320 1327 1334 1341	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04
121 122 123 124 125 126 127 128 129 130 131	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124097e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04
121 122 123 124 125 126 127 128 129 130 131	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124097e+01 8.124087e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04
121 122 123 124 125 126 127 128 129 130 131 132	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124087e+01 8.124084e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04 1.332e-04	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04
121 122 123 124 125 126 127 128 129 130 131 132 133	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124097e+01 8.124087e+01 8.124084e+01 8.124084e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04 1.332e-04 3.206e-05	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05
121 122 123 124 125 126 127 128 129 130 131 132 133 134	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124097e+01 8.124084e+01 8.124084e+01 8.124082e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04 1.332e-04 3.206e-05 7.733e-05	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124087e+01 8.124084e+01 8.124082e+01 8.124082e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 1.603e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390 1397	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124098e+01 8.124087e+01 8.124084e+01 8.124082e+01 8.124082e+01 8.124082e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13 2.297e-14	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 1.603e-04 3.542e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05 6.412e-06	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04 3.683e-05
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390 1397 1404	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124097e+01 8.124087e+01 8.124084e+01 8.124082e+01 8.124082e+01 8.124082e+01 8.124081e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13 2.297e-14 1.024e-13	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05 6.412e-06 5.342e-05	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04 3.683e-05 1.733e-04
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390 1397 1404 1411	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124097e+01 8.124087e+01 8.124084e+01 8.124082e+01 8.124082e+01 8.124082e+01 8.124081e+01 8.124081e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13 2.297e-14 1.024e-13 6.104e-14	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05 6.412e-06 5.342e-05 1.578e-05	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04 3.683e-05 1.733e-04 1.026e-04
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390 1397 1404 1411 1418	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124097e+01 8.124087e+01 8.124084e+01 8.124082e+01 8.124082e+01 8.124081e+01 8.124081e+01 8.124081e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13 2.297e-14 1.024e-13 6.104e-14 9.870e-15	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05 6.412e-06 5.342e-05 1.578e-05 3.482e-06	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04 1.763e-04 3.683e-05 1.733e-04 1.026e-04 3.984e-05
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390 1397 1404 1411 1418 1426	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.124110e+01 8.124097e+01 8.124097e+01 8.124084e+01 8.124084e+01 8.124082e+01 8.124082e+01 8.124081e+01 8.124081e+01 8.124081e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13 2.297e-14 1.024e-13 6.104e-14 9.870e-15 5.024e-15 4.438e-15	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05 6.412e-06 5.342e-05 1.578e-05 3.482e-06 3.080e-06 2.532e-06	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 4.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04 1.763e-04 1.763e-04 3.683e-05 1.733e-04 1.026e-04 3.984e-05 8.715e-06
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	1285 1292 1299 1306 1313 1320 1327 1334 1341 1348 1355 1362 1369 1376 1383 1390 1397 1404 1411 1418 1426 1436	8.126095e+01 8.124818e+01 8.124515e+01 8.124482e+01 8.124482e+01 8.124231e+01 8.124168e+01 8.124161e+01 8.12410e+01 8.124097e+01 8.124087e+01 8.124082e+01 8.124082e+01 8.124082e+01 8.124081e+01 8.124081e+01 8.124081e+01 8.124081e+01 8.124081e+01	2.388e-11 3.253e-08 4.313e-09 1.110e-11 1.520e-12 7.311e-10 1.602e-10 2.371e-12 3.388e-13 3.459e-12 1.493e-13 1.742e-13 1.865e-13 5.296e-14 7.439e-14 1.426e-13 2.297e-14 1.024e-13 6.104e-14 9.870e-15 5.024e-15 4.438e-15	optimality 2.074e-02 1.227e-01 2.562e-02 7.523e-03 4.000e-03 2.778e-02 6.256e-03 8.014e-04 4.119e-03 6.036e-04 1.603e-04 3.542e-04 1.332e-04 3.206e-05 7.733e-05 4.219e-05 6.412e-06 5.342e-05 1.578e-05 3.482e-06 3.080e-06 2.532e-06	step 4.083e-02 3.771e-02 7.204e-03 1.265e-02 4.658e-03 2.200e-02 1.601e-02 1.363e-03 2.286e-03 8.076e-04 3.348e-04 8.176e-04 2.634e-04 7.280e-05 3.745e-04 1.763e-04 3.683e-05 1.733e-04 1.026e-04 3.984e-05 8.715e-06 6.416e-06

145	1465	8.124081e+01	1.385e-17	2.094e-05	1.772e-06
146	1475	8.124081e+01	1.275e-17	1.709e-05	3.663e-07
147	1493	8.124081e+01	1.171e-21	1.518e-05	2.402e-09

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the value of the step size tolerance and constraints are satisfied to within the value of the constraint tolerance.

<stopping criteria details>

params =

46.9057	0.4781	0.0002	15.0692	0.4545	0.0001
40.9037	0.4/01	0.0002	13.0032	0.4545	0.0001

				First-order	Norm of
Iter	F-count	f(x)	Feasibility	optimality	step
0	2	2.578531e+01	0.000e+00	2.659e+01	
1	4	2.515206e-01	0.000e+00	4.167e-02	2.426e+01
2	6	2.499349e-01	0.000e+00	4.154e-02	3.812e-02
3	8	2.421007e-01	0.000e+00	4.092e-02	1.900e-01
4	10	2.051566e-01	0.000e+00	3.808e-02	9.359e-01
5	12	6.283949e-02	0.000e+00	2.807e-02	4.354e+00
6	16	1.513279e-02	0.000e+00	2.320e-02	3.054e+00
7	19	1.241047e-03	0.000e+00	2.423e-02	6.905e-01
8	23	8.883724e-04	0.000e+00	2.405e-02	8.820e-02
9	25	1.707634e-04	0.000e+00	2.417e-02	4.393e-02
10	28	9.496477e-05	0.000e+00	2.410e-02	1.101e-02
11	30	3.766735e-05	0.000e+00	2.416e-02	5.497e-03
12	32	2.874798e-05	0.000e+00	2.410e-02	2.752e-03
13	34	4.414099e-06	0.000e+00	2.416e-02	1.374e-03
14	37	3.887371e-06	0.000e+00	2.410e-02	3.440e-04
15	39	2.581172e-07	0.000e+00	2.416e-02	1.718e-04
16	44	1.301872e-09	0.000e+00	2.410e-02	1.075e-05
17	56	7.223081e-10	0.000e+00	2.116e-02	8.388e-08

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the value of the step size tolerance and constraints are satisfied to within the value of the constraint tolerance.

<stopping criteria details>

 $nu_Z =$ 

33.1924

>> Run final project group2A