

ผนวก ค

ข้อมูลที่ใช้ในการวิจัย

ผลลัพธ์ที่ได้จากการรันโปรแกรมที่ใช้ในงานวิจัยบันทึกไว้ข้อมูลในซีดีรอมท้ายเล่ม ประกอบด้วย

ตารางที่ 1. แสดงข้อมูลที่ใช้ในการวิจัยวิธีสตีเฟสแอสเซนท์

ตารางที่ 2. แสดงข้อมูลที่ใช้ในการวิจัยวิธีชิมูเลขเตดแอนนิตลิง

ตารางที่ 3. แสดงข้อมูลที่ใช้ในการวิจัยวิธีผู้งมด

ตารางที่ 4. แสดงผลการทดสอบปัญหาในอุตสาหกรรมด้วยวิธีผู้งมด

ตารางที่ 5. แสดงผลการทดสอบปัญหาในอุตสาหกรรมด้วยวิธีผสมผสาน

ตารางที่ 1. แสดงผลการทดสอบปัญหาในการวิจัยด้วยวิธีสตีเฟสแอสเซนท์

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Branin	2	0	#1	46644	0:00:04	5.918	(3.13, 2.25)	5.912	0.010	15.435
Steepest	Branin	2	0	#2	46986	0:00:04	5.919	(15.69, 12.84)			
Steepest	Branin	2	0	#3	46393	0:00:03	5.918	(9.44, 2.49)			
Steepest	Branin	2	0	#4	46402	0:00:04	5.905	(3.16, 2.33)			
Steepest	Branin	2	0	#5	46757	0:00:04	5.92	(3.13, 2.30)			
Steepest	Branin	2	0	#6	46366	0:00:03	5.909	(9.42, 2.54)			
Steepest	Branin	2	0	#7	46445	0:00:04	5.921	(9.43, 2.48)			
Steepest	Branin	2	0	#8	46207	0:00:03	5.906	(15.74, 12.97)			
Steepest	Branin	2	0	#9	46721	0:00:04	5.92	(15.72, 12.90)			
Steepest	Branin	2	0	#10	46926	0:00:04	5.92	(15.70, 12.87)			
Steepest	Branin	2	0	#11	46553	0:00:03	5.908	(-3.11, 12.18)			
Steepest	Branin	2	0	#12	46149	0:00:04	5.916	(3.12, 2.29)			
Steepest	Branin	2	0	#13	45894	0:00:04	5.894	(-3.12, 12.13)			
Steepest	Branin	2	0	#14	46734	0:00:03	5.915	(3.16, 2.24)			
Steepest	Branin	2	0	#15	46003	0:00:04	5.89	(3.09, 2.31)			
Steepest	Branin	2	1	#1	8644	0:00:25	7.576	(-2.89, 12.01)	7.789	0.511	17.791
Steepest	Branin	2	1	#2	8578	0:00:24	7.194	(15.32, 11.97)			
Steepest	Branin	2	1	#3	8575	0:00:25	7.256	(9.30, 2.76)			
Steepest	Branin	2	1	#4	8616	0:00:24	7.447	(-3.08, 12.00)			
Steepest	Branin	2	1	#5	8625	0:00:25	7.724	(9.40, 2.44)			
Steepest	Branin	2	1	#6	8635	0:00:24	7.656	(9.21, 2.55)			
Steepest	Branin	2	1	#7	8618	0:00:25	8.094	(9.44, 2.49)			
Steepest	Branin	2	1	#8	8541	0:00:24	7.736	(3.14, 3.04)			
Steepest	Branin	2	1	#9	8671	0:00:25	7.056	(3.38, 1.96)			
Steepest	Branin	2	1	#10	8583	0:00:24	8.286	(9.43, 2.46)			
Steepest	Branin	2	1	#11	8572	0:00:24	8.958	(3.15, 2.36)			
Steepest	Branin	2	1	#12	8674	0:00:25	8.417	(15.76, 13.71)			
Steepest	Branin	2	1	#13	8604	0:00:24	7.554	(15.46, 11.18)			
Steepest	Branin	2	1	#14	8465	0:00:25	8.148	(9.53, 2.61)			
Steepest	Branin	2	1	#15	8707	0:00:24	7.728	(9.27, 2.27)			
Steepest	Branin	2	2	#1	8609	0:00:25	10.099	(9.33, 2.79)	10.282	0.714	20.190
Steepest	Branin	2	2	#2	8418	0:00:24	10.145	(-2.77, 12.96)			
Steepest	Branin	2	2	#3	8661	0:00:25	9.924	(2.78, 1.60)			
Steepest	Branin	2	2	#4	8502	0:00:24	11.484	(2.57, 2.55)			
Steepest	Branin	2	2	#5	8631	0:00:25	11.076	(9.13, 2.46)			
Steepest	Branin	2	2	#6	8552	0:00:24	9.772	(14.44, 10.42)			
Steepest	Branin	2	2	#7	8470	0:00:24	9.164	(15.84, 15.08)			
Steepest	Branin	2	2	#8	8551	0:00:25	9.999	(2.80, 3.03)			
Steepest	Branin	2	2	#9	8663	0:00:24	10.004	(-4.67, 15.89)			
Steepest	Branin	2	2	#10	8485	0:00:25	10.781	(15.95, 12.12)			
Steepest	Branin	2	2	#11	8524	0:00:24	9.608	(16.25, 16.72)			
Steepest	Branin	2	2	#12	8604	0:00:25	9.922	(3.56, 3.79)			
Steepest	Branin	2	2	#13	8531	0:00:24	11.018	(-3.19, 11.74)			
Steepest	Branin	2	2	#14	8537	0:00:25	11.516	(15.96, 13.61)			
Steepest	Branin	2	2	#15	8500	0:00:24	9.725	(4.22, 5.07)			
Steepest	Branin	2	3	#1	8524	0:00:24	13.005	(16.35, 16.96)	13.159	0.916	22.329
Steepest	Branin	2	3	#2	8537	0:00:25	12.211	(10.23, 0.45)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Branin	2	3	#3	8543	0:00:24	13.57	(9.20, 3.86)			
Steepest	Branin	2	3	#4	8640	0:00:25	12.099	(3.43, 1.85)			
Steepest	Branin	2	3	#5	8452	0:00:24	15.226	(-3.17, 12.52)			
Steepest	Branin	2	3	#6	8636	0:00:25	13.977	(16.29, 10.61)			
Steepest	Branin	2	3	#7	8579	0:00:24	12.925	(15.78, 11.02)			
Steepest	Branin	2	3	#8	8590	0:00:25	13.157	(8.88, -1.18)			
Steepest	Branin	2	3	#9	8521	0:00:24	12.897	(2.81, 1.69)			
Steepest	Branin	2	3	#10	8566	0:00:24	12.779	(3.07, 3.68)			
Steepest	Branin	2	3	#11	8526	0:00:25	12.333	(16.01, 11.08)			
Steepest	Branin	2	3	#12	8590	0:00:24	14.675	(15.97, 14.01)			
Steepest	Branin	2	3	#13	8602	0:00:25	12.742	(15.43, 11.09)			
Steepest	Branin	2	3	#14	8504	0:00:24	13.606	(3.93, 2.07)			
Steepest	Branin	2	3	#15	8549	0:00:25	12.176	(-2.93, 10.73)			
Steepest	Camelback	2	0	#1	39982	0:00:03	14.081	(0.03, -0.06)	15.018	1.328	23.454
Steepest	Camelback	2	0	#2	39780	0:00:04	15.618	(0.01, -0.03)			
Steepest	Camelback	2	0	#3	40166	0:00:03	16.254	(-0.02, 0.01)			
Steepest	Camelback	2	0	#4	39678	0:00:04	13.324	(-0.02, -0.09)			
Steepest	Camelback	2	0	#5	40145	0:00:03	15.019	(-0.04, 0.02)			
Steepest	Camelback	2	0	#6	39978	0:00:04	14.227	(0.04, 0.04)			
Steepest	Camelback	2	0	#7	40580	0:00:04	15.025	(0.03, -0.03)			
Steepest	Camelback	2	0	#8	39724	0:00:03	15.195	(0.02, 0.03)			
Steepest	Camelback	2	0	#9	39797	0:00:04	14.456	(0.01, 0.05)			
Steepest	Camelback	2	0	#10	39848	0:00:03	14.981	(-0.01, -0.04)			
Steepest	Camelback	2	0	#11	39962	0:00:04	14.254	(0.06, -0.01)			
Steepest	Camelback	2	0	#12	40030	0:00:03	14.187	(0.04, -0.05)			
Steepest	Camelback	2	0	#13	40688	0:00:04	19.099	(0.01, 0.00)			
Steepest	Camelback	2	0	#14	40131	0:00:03	14.928	(0.04, -0.02)			
Steepest	Camelback	2	0	#15	40019	0:00:04	14.618	(-0.01, 0.05)			
Steepest	Camelback	2	1	#1	8825	0:00:24	15.825	(-0.03, 0.03)	13.824	1.512	22.682
Steepest	Camelback	2	1	#2	8817	0:00:24	12.325	(-0.23, 0.09)			
Steepest	Camelback	2	1	#3	8818	0:00:24	13.852	(-0.30, 0.09)			
Steepest	Camelback	2	1	#4	8867	0:00:24	12.879	(-0.04, 0.13)			
Steepest	Camelback	2	1	#5	8910	0:00:24	13.808	(-0.14, -0.09)			
Steepest	Camelback	2	1	#6	8681	0:00:24	11.474	(0.63, -0.29)			
Steepest	Camelback	2	1	#7	8795	0:00:25	15.137	(0.07, -0.01)			
Steepest	Camelback	2	1	#8	8871	0:00:24	17.448	(0.00, -0.03)			
Steepest	Camelback	2	1	#9	8717	0:00:24	14.744	(0.10, -0.08)			
Steepest	Camelback	2	1	#10	8765	0:00:24	13.21	(0.05, -0.07)			
Steepest	Camelback	2	1	#11	8850	0:00:24	13.504	(-0.09, 0.00)			
Steepest	Camelback	2	1	#12	8838	0:00:24	14.243	(0.08, -0.04)			
Steepest	Camelback	2	1	#13	8760	0:00:24	13.636	(0.20, -0.01)			
Steepest	Camelback	2	1	#14	8827	0:00:24	12.87	(-0.14, 0.22)			
Steepest	Camelback	2	1	#15	8765	0:00:24	12.405	(-0.09, -0.25)			
Steepest	Camelback	2	2	#1	8558	0:00:24	14.49	(-0.14, -0.26)	15.170	1.038	23.575
Steepest	Camelback	2	2	#2	8612	0:00:24	14.336	(-0.09, 0.01)			
Steepest	Camelback	2	2	#3	8610	0:00:24	14.981	(0.26, -0.17)			
Steepest	Camelback	2	2	#4	8613	0:00:24	14.75	(-0.11, 0.14)			
Steepest	Camelback	2	2	#5	8614	0:00:24	14.795	(0.69, -0.32)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Camelback	2	2	#6	8726	0:00:24	17.279	(0.05, -0.07)			
Steepest	Camelback	2	2	#7	8501	0:00:24	14.134	(0.14, -0.37)			
Steepest	Camelback	2	2	#8	8719	0:00:24	17.067	(-0.02, -0.08)			
Steepest	Camelback	2	2	#9	8651	0:00:24	15.208	(0.04, -0.08)			
Steepest	Camelback	2	2	#10	8649	0:00:24	15.775	(-0.03, -0.02)			
Steepest	Camelback	2	2	#11	8556	0:00:24	14.609	(0.06, 0.08)			
Steepest	Camelback	2	2	#12	8698	0:00:24	16.263	(0.08, 0.06)			
Steepest	Camelback	2	2	#13	8632	0:00:24	14.114	(-0.20, 0.18)			
Steepest	Camelback	2	2	#14	8654	0:00:24	15.681	(-0.06, 0.13)			
Steepest	Camelback	2	2	#15	8504	0:00:23	14.075	(0.11, 0.09)			
Steepest	Camelback	2	3	#1	8594	0:00:24	18.397	(-0.18, 0.02)	16.414	1.233	24.237
Steepest	Camelback	2	3	#2	8664	0:00:24	15.794	(-1.60, -0.15)			
Steepest	Camelback	2	3	#3	8614	0:00:24	15.114	(-2.20, -1.48)			
Steepest	Camelback	2	3	#4	8608	0:00:23	16.162	(1.85, -0.60)			
Steepest	Camelback	2	3	#5	8685	0:00:24	16.426	(1.25, -1.97)			
Steepest	Camelback	2	3	#6	8570	0:00:24	17.478	(0.25, 0.13)			
Steepest	Camelback	2	3	#7	8576	0:00:24	16.518	(0.18, 0.24)			
Steepest	Camelback	2	3	#8	8698	0:00:24	16.543	(-0.65, -0.62)			
Steepest	Camelback	2	3	#9	8620	0:00:24	15.569	(0.12, 0.80)			
Steepest	Camelback	2	3	#10	8661	0:00:24	17.157	(-1.04, 0.56)			
Steepest	Camelback	2	3	#11	8572	0:00:24	14.718	(-0.51, -0.87)			
Steepest	Camelback	2	3	#12	8719	0:00:24	17.667	(0.81, -0.16)			
Steepest	Camelback	2	3	#13	8562	0:00:24	14.194	(1.73, -0.01)			
Steepest	Camelback	2	3	#14	8661	0:00:24	16.229	(-0.55, 0.33)			
Steepest	Camelback	2	3	#15	8643	0:00:24	18.249	(-0.65, -0.21)			
Steepest	GoldsteinPrice	2	0	#1	30405	0:00:03	8.595	(0.02, -1.04)	8.604	0.214	18.687
Steepest	GoldsteinPrice	2	0	#2	30558	0:00:04	8.865	(0.02, -0.99)			
Steepest	GoldsteinPrice	2	0	#3	30825	0:00:03	8.891	(0.00, -1.01)			
Steepest	GoldsteinPrice	2	0	#4	30791	0:00:04	8.484	(0.00, -0.94)			
Steepest	GoldsteinPrice	2	0	#5	30654	0:00:03	8.507	(0.03, -0.94)			
Steepest	GoldsteinPrice	2	0	#6	30784	0:00:03	8.731	(0.05, -0.99)			
Steepest	GoldsteinPrice	2	0	#7	30672	0:00:04	8.761	(-0.04, -1.00)			
Steepest	GoldsteinPrice	2	0	#8	30629	0:00:03	8.307	(-0.02, -1.07)			
Steepest	GoldsteinPrice	2	0	#9	30497	0:00:03	8.689	(-0.05, -1.01)			
Steepest	GoldsteinPrice	2	0	#10	30713	0:00:04	8.825	(-0.03, -1.02)			
Steepest	GoldsteinPrice	2	0	#11	30208	0:00:03	8.685	(-0.03, -1.04)			
Steepest	GoldsteinPrice	2	0	#12	30547	0:00:04	8.558	(0.06, -0.95)			
Steepest	GoldsteinPrice	2	0	#13	30257	0:00:03	8.172	(-0.04, -1.08)			
Steepest	GoldsteinPrice	2	0	#14	30581	0:00:03	8.316	(-0.02, -0.93)			
Steepest	GoldsteinPrice	2	0	#15	30545	0:00:04	8.667	(-0.04, -1.04)			
Steepest	GoldsteinPrice	2	1	#1	9615	0:00:25	7.734	(0.17, -1.00)	8.817	0.913	18.787
Steepest	GoldsteinPrice	2	1	#2	9492	0:00:24	8.882	(0.15, -0.91)			
Steepest	GoldsteinPrice	2	1	#3	9567	0:00:25	11.032	(0.02, -0.98)			
Steepest	GoldsteinPrice	2	1	#4	9535	0:00:24	8.798	(0.01, -0.92)			
Steepest	GoldsteinPrice	2	1	#5	9668	0:00:25	8.171	(-0.09, -1.00)			
Steepest	GoldsteinPrice	2	1	#6	9545	0:00:25	10.11	(-0.02, -1.00)			
Steepest	GoldsteinPrice	2	1	#7	9452	0:00:24	9.339	(0.02, -0.97)			
Steepest	GoldsteinPrice	2	1	#8	9591	0:00:25	9.179	(0.10, -0.94)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	GoldsteinPrice	2	1	#9	9704	0:00:25	7.635	(0.35, -0.72)			
Steepest	GoldsteinPrice	2	1	#10	9608	0:00:24	8.136	(0.18, -1.11)			
Steepest	GoldsteinPrice	2	1	#11	9563	0:00:25	8.702	(-0.21, -0.94)			
Steepest	GoldsteinPrice	2	1	#12	9490	0:00:24	9.348	(0.02, -1.05)			
Steepest	GoldsteinPrice	2	1	#13	9604	0:00:25	8.293	(-0.57, -0.46)			
Steepest	GoldsteinPrice	2	1	#14	9344	0:00:25	8.011	(-0.18, -0.97)			
Steepest	GoldsteinPrice	2	1	#15	9596	0:00:24	8.878	(-0.52, -0.52)			
Steepest	GoldsteinPrice	2	2	#1	8809	0:00:25	10.041	(-0.03, -1.14)	9.335	1.016	19.271
Steepest	GoldsteinPrice	2	2	#2	8911	0:00:24	9.707	(-0.58, -0.66)			
Steepest	GoldsteinPrice	2	2	#3	8848	0:00:24	9.351	(-0.09, -0.84)			
Steepest	GoldsteinPrice	2	2	#4	8936	0:00:24	8.636	(-0.35, -1.15)			
Steepest	GoldsteinPrice	2	2	#5	8770	0:00:24	9.224	(-0.66, -0.68)			
Steepest	GoldsteinPrice	2	2	#6	8785	0:00:24	9.152	(-0.13, -1.16)			
Steepest	GoldsteinPrice	2	2	#7	8900	0:00:25	9.007	(-0.20, -0.74)			
Steepest	GoldsteinPrice	2	2	#8	8840	0:00:24	9.268	(-0.07, -1.00)			
Steepest	GoldsteinPrice	2	2	#9	8971	0:00:24	8.995	(0.42, -1.42)			
Steepest	GoldsteinPrice	2	2	#10	8783	0:00:24	9.983	(-0.10, -0.87)			
Steepest	GoldsteinPrice	2	2	#11	8818	0:00:24	7.516	(0.59, -0.69)			
Steepest	GoldsteinPrice	2	2	#12	8758	0:00:24	9.407	(-0.27, -0.81)			
Steepest	GoldsteinPrice	2	2	#13	8892	0:00:24	8.056	(-0.62, -0.52)			
Steepest	GoldsteinPrice	2	2	#14	8836	0:00:24	9.594	(0.15, -0.81)			
Steepest	GoldsteinPrice	2	2	#15	8775	0:00:24	12.094	(-0.13, -0.67)			
Steepest	GoldsteinPrice	2	3	#1	8642	0:00:24	12.902	(-0.84, -0.31)	11.751	1.359	21.240
Steepest	GoldsteinPrice	2	3	#2	8650	0:00:24	12.176	(0.87, -0.36)			
Steepest	GoldsteinPrice	2	3	#3	8747	0:00:24	13.786	(1.90, 0.43)			
Steepest	GoldsteinPrice	2	3	#4	8750	0:00:24	11.496	(-0.71, -0.63)			
Steepest	GoldsteinPrice	2	3	#5	8758	0:00:24	10.517	(0.09, -1.04)			
Steepest	GoldsteinPrice	2	3	#6	8815	0:00:24	9.439	(1.05, -0.07)			
Steepest	GoldsteinPrice	2	3	#7	8693	0:00:24	13.141	(1.49, 0.08)			
Steepest	GoldsteinPrice	2	3	#8	8745	0:00:24	12.799	(0.55, -0.20)			
Steepest	GoldsteinPrice	2	3	#9	8638	0:00:24	11.264	(2.69, 2.26)			
Steepest	GoldsteinPrice	2	3	#10	8735	0:00:24	9.352	(2.02, 0.19)			
Steepest	GoldsteinPrice	2	3	#11	8595	0:00:24	11.535	(0.03, -0.96)			
Steepest	GoldsteinPrice	2	3	#12	8709	0:00:24	12.949	(1.66, 0.13)			
Steepest	GoldsteinPrice	2	3	#13	8858	0:00:24	11.983	(-0.20, -1.00)			
Steepest	GoldsteinPrice	2	3	#14	8610	0:00:24	12.594	(0.00, -1.31)			
Steepest	GoldsteinPrice	2	3	#15	8690	0:00:24	10.331	(-0.40, -0.77)			
Steepest	Parabolic	2	0	#1	52024	0:00:03	12	(0.00, 0.00)	12.000	0.000	21.584
Steepest	Parabolic	2	0	#2	52348	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#3	51859	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#4	52225	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#5	52442	0:00:03	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#6	52081	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#7	51772	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#8	52693	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#9	52233	0:00:03	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#10	51930	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#11	52463	0:00:04	12	(0.00, 0.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Parabolic	2	0	#12	52291	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#13	52359	0:00:03	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#14	52022	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	0	#15	52514	0:00:04	12	(0.00, 0.00)			
Steepest	Parabolic	2	1	#1	8551	0:00:24	14.926	(-4.24, -8.59)	15.035	0.254	23.539
Steepest	Parabolic	2	1	#2	8621	0:00:24	14.921	(1.92, -1.13)			
Steepest	Parabolic	2	1	#3	8650	0:00:24	14.748	(-2.23, -0.34)			
Steepest	Parabolic	2	1	#4	8496	0:00:23	14.735	(0.13, 6.10)			
Steepest	Parabolic	2	1	#5	8690	0:00:24	15.168	(-0.55, -5.37)			
Steepest	Parabolic	2	1	#6	8745	0:00:24	14.892	(-3.09, 1.85)			
Steepest	Parabolic	2	1	#7	8746	0:00:24	15.267	(-3.69, 0.17)			
Steepest	Parabolic	2	1	#8	8701	0:00:24	15.379	(-3.21, 1.11)			
Steepest	Parabolic	2	1	#9	8547	0:00:24	14.933	(0.37, 1.54)			
Steepest	Parabolic	2	1	#10	8652	0:00:24	14.833	(-6.86, 3.92)			
Steepest	Parabolic	2	1	#11	8606	0:00:24	15.514	(-1.38, 5.03)			
Steepest	Parabolic	2	1	#12	8603	0:00:24	15.122	(-2.60, -0.78)			
Steepest	Parabolic	2	1	#13	8625	0:00:23	15.364	(-6.55, 0.44)			
Steepest	Parabolic	2	1	#14	8598	0:00:24	14.726	(-2.74, -4.46)			
Steepest	Parabolic	2	1	#15	8559	0:00:24	14.991	(-2.24, -2.29)			
Steepest	Parabolic	2	2	#1	8592	0:00:24	18.999	(3.89, 4.85)	18.814	0.947	25.465
Steepest	Parabolic	2	2	#2	8602	0:00:24	18.271	(9.16, 0.47)			
Steepest	Parabolic	2	2	#3	8587	0:00:23	19.134	(-6.15, 5.29)			
Steepest	Parabolic	2	2	#4	8614	0:00:24	18.468	(-7.02, 5.59)			
Steepest	Parabolic	2	2	#5	8573	0:00:24	18.318	(3.02, 2.08)			
Steepest	Parabolic	2	2	#6	8518	0:00:23	19.072	(5.21, -2.77)			
Steepest	Parabolic	2	2	#7	8581	0:00:24	18.4	(2.58, -0.90)			
Steepest	Parabolic	2	2	#8	8612	0:00:24	21.691	(-1.88, 9.29)			
Steepest	Parabolic	2	2	#9	8633	0:00:24	19.757	(-10.05, -4.05)			
Steepest	Parabolic	2	2	#10	8650	0:00:24	18.017	(2.46, -1.14)			
Steepest	Parabolic	2	2	#11	8610	0:00:23	18.594	(-3.16, -3.36)			
Steepest	Parabolic	2	2	#12	8497	0:00:24	19.182	(12.28, -6.70)			
Steepest	Parabolic	2	2	#13	8447	0:00:24	18.062	(4.69, 1.35)			
Steepest	Parabolic	2	2	#14	8617	0:00:23	18.051	(7.87, -3.14)			
Steepest	Parabolic	2	2	#15	8588	0:00:24	18.195	(6.71, -7.53)			
Steepest	Parabolic	2	3	#1	8588	0:00:24	21.856	(5.12, -12.57)	22.216	0.788	26.923
Steepest	Parabolic	2	3	#2	8530	0:00:24	22.433	(-8.31, -2.90)			
Steepest	Parabolic	2	3	#3	8512	0:00:24	21.61	(-6.11, -1.20)			
Steepest	Parabolic	2	3	#4	8641	0:00:23	22.009	(-3.40, -1.10)			
Steepest	Parabolic	2	3	#5	8531	0:00:24	21.953	(1.76, 2.44)			
Steepest	Parabolic	2	3	#6	8438	0:00:24	22.633	(-14.98, -0.39)			
Steepest	Parabolic	2	3	#7	8599	0:00:23	23.903	(0.60, -10.09)			
Steepest	Parabolic	2	3	#8	8582	0:00:24	22.771	(-5.49, 0.96)			
Steepest	Parabolic	2	3	#9	8521	0:00:24	23.564	(-2.81, -0.32)			
Steepest	Parabolic	2	3	#10	8605	0:00:24	21.827	(-9.41, 0.75)			
Steepest	Parabolic	2	3	#11	8578	0:00:23	22.571	(7.99, 5.55)			
Steepest	Parabolic	2	3	#12	8613	0:00:24	21.666	(4.70, 1.74)			
Steepest	Parabolic	2	3	#13	8565	0:00:24	21.976	(0.47, -3.15)			
Steepest	Parabolic	2	3	#14	8680	0:00:24	21.643	(-7.48, 4.63)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Parabolic	2	3	#15	8622	0:00:23	20.829	(-7.49, -9.06)			
Steepest	Shekel	2	0	#1	39300	0:00:05	18.978	(5.93, -6.96)	18.980	0.001	25.566
Steepest	Shekel	2	0	#2	39333	0:00:05	18.98	(5.96, -6.97)			
Steepest	Shekel	2	0	#3	39627	0:00:05	18.98	(5.94, -6.96)			
Steepest	Shekel	2	0	#4	39559	0:00:05	18.98	(5.96, -6.96)			
Steepest	Shekel	2	0	#5	40059	0:00:05	18.979	(5.96, -6.94)			
Steepest	Shekel	2	0	#6	39454	0:00:05	18.98	(5.96, -6.97)			
Steepest	Shekel	2	0	#7	39222	0:00:05	18.979	(5.93, -6.96)			
Steepest	Shekel	2	0	#8	39727	0:00:05	18.98	(5.95, -6.96)			
Steepest	Shekel	2	0	#9	39954	0:00:05	18.98	(5.96, -6.95)			
Steepest	Shekel	2	0	#10	39788	0:00:05	18.98	(5.97, -6.96)			
Steepest	Shekel	2	0	#11	39540	0:00:05	18.98	(5.95, -6.96)			
Steepest	Shekel	2	0	#12	40123	0:00:05	18.98	(5.97, -6.97)			
Steepest	Shekel	2	0	#13	39520	0:00:05	18.98	(5.96, -6.97)			
Steepest	Shekel	2	0	#14	40037	0:00:05	18.98	(5.96, -6.97)			
Steepest	Shekel	2	0	#15	39557	0:00:05	18.98	(5.96, -6.95)			
Steepest	Shekel	2	1	#1	8952	0:00:25	20.771	(5.84, -6.45)	20.428	0.569	26.197
Steepest	Shekel	2	1	#2	8864	0:00:25	20.698	(6.23, -7.45)			
Steepest	Shekel	2	1	#3	8943	0:00:24	20.338	(6.30, -6.82)			
Steepest	Shekel	2	1	#4	8814	0:00:25	20.099	(5.95, -7.07)			
Steepest	Shekel	2	1	#5	8859	0:00:25	20.447	(5.63, -6.82)			
Steepest	Shekel	2	1	#6	8878	0:00:25	20.96	(5.97, -7.48)			
Steepest	Shekel	2	1	#7	8874	0:00:25	19.855	(5.81, -6.41)			
Steepest	Shekel	2	1	#8	8981	0:00:25	19.439	(6.12, -6.92)			
Steepest	Shekel	2	1	#9	8819	0:00:24	20.255	(5.73, -6.99)			
Steepest	Shekel	2	1	#10	9025	0:00:25	19.602	(5.49, -7.02)			
Steepest	Shekel	2	1	#11	9032	0:00:25	21.247	(5.72, -6.54)			
Steepest	Shekel	2	1	#12	8857	0:00:25	19.965	(6.18, -6.94)			
Steepest	Shekel	2	1	#13	9105	0:00:25	20.828	(5.80, -7.34)			
Steepest	Shekel	2	1	#14	8869	0:00:25	20.567	(5.71, -6.89)			
Steepest	Shekel	2	1	#15	8950	0:00:25	21.351	(5.84, -7.15)			
Steepest	Shekel	2	2	#1	8622	0:00:25	22.211	(6.23, -7.43)	22.297	1.161	26.933
Steepest	Shekel	2	2	#2	8670	0:00:24	21.756	(6.80, -6.38)			
Steepest	Shekel	2	2	#3	8684	0:00:25	21.56	(6.33, -7.64)			
Steepest	Shekel	2	2	#4	8686	0:00:25	23.728	(5.57, -7.02)			
Steepest	Shekel	2	2	#5	8669	0:00:24	22.393	(5.71, -6.47)			
Steepest	Shekel	2	2	#6	8804	0:00:25	21.208	(5.93, -6.22)			
Steepest	Shekel	2	2	#7	8648	0:00:25	22.411	(5.90, -6.46)			
Steepest	Shekel	2	2	#8	8694	0:00:24	24.656	(5.78, -6.88)			
Steepest	Shekel	2	2	#9	8657	0:00:25	21.62	(6.22, -6.44)			
Steepest	Shekel	2	2	#10	8582	0:00:25	21.769	(6.43, -7.53)			
Steepest	Shekel	2	2	#11	8722	0:00:24	23.167	(5.56, -7.23)			
Steepest	Shekel	2	2	#12	8601	0:00:25	20.547	(5.65, -6.28)			
Steepest	Shekel	2	2	#13	8698	0:00:24	21.932	(6.29, -6.47)			
Steepest	Shekel	2	2	#14	8581	0:00:25	21.31	(6.11, -7.16)			
Steepest	Shekel	2	2	#15	8692	0:00:25	24.182	(6.19, -6.92)			
Steepest	Shekel	2	3	#1	8619	0:00:25	25.609	(6.48, -6.74)	24.461	1.394	27.737
Steepest	Shekel	2	3	#2	8725	0:00:24	23.499	(5.66, -7.12)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Shekel	2	3	#3	8661	0:00:25	25.515	(5.95, -6.84)			
Steepest	Shekel	2	3	#4	8676	0:00:25	24.145	(5.12, -7.79)			
Steepest	Shekel	2	3	#5	8631	0:00:24	26.28	(6.12, -7.01)			
Steepest	Shekel	2	3	#6	8486	0:00:25	23.888	(6.03, -6.69)			
Steepest	Shekel	2	3	#7	8507	0:00:24	23.896	(5.58, -7.69)			
Steepest	Shekel	2	3	#8	8627	0:00:25	24.651	(6.45, -7.31)			
Steepest	Shekel	2	3	#9	8551	0:00:24	23.372	(5.47, -6.61)			
Steepest	Shekel	2	3	#10	8622	0:00:25	21.568	(6.83, -7.33)			
Steepest	Shekel	2	3	#11	8609	0:00:25	23.686	(6.52, -7.54)			
Steepest	Shekel	2	3	#12	8538	0:00:24	23.4	(7.23, -6.62)			
Steepest	Shekel	2	3	#13	8595	0:00:25	24.917	(5.47, -6.61)			
Steepest	Shekel	2	3	#14	8602	0:00:24	25.269	(4.76, -8.00)			
Steepest	Shekel	2	3	#15	8693	0:00:25	27.222	(6.53, -6.86)			
Steepest	Rastrigin	2	0	#1	17783	0:00:03	99.794	(0.05, 0.00)	99.038	0.952	39.915
Steepest	Rastrigin	2	0	#2	17427	0:00:03	99.673	(0.03, -0.05)			
Steepest	Rastrigin	2	0	#3	17546	0:00:02	99.98	(-0.01, -0.01)			
Steepest	Rastrigin	2	0	#4	17656	0:00:03	99.991	(0.00, -0.01)			
Steepest	Rastrigin	2	0	#5	17431	0:00:02	98.25	(-0.13, 0.03)			
Steepest	Rastrigin	2	0	#6	17703	0:00:03	98.056	(0.14, -0.01)			
Steepest	Rastrigin	2	0	#7	17619	0:00:03	99.95	(-0.02, 0.01)			
Steepest	Rastrigin	2	0	#8	17938	0:00:02	98.799	(-0.01, 0.11)			
Steepest	Rastrigin	2	0	#9	17531	0:00:03	99.477	(0.04, -0.06)			
Steepest	Rastrigin	2	0	#10	17724	0:00:03	99.454	(-0.07, -0.02)			
Steepest	Rastrigin	2	0	#11	17688	0:00:02	96.989	(0.09, 0.15)			
Steepest	Rastrigin	2	0	#12	17651	0:00:03	99.164	(0.07, 0.06)			
Steepest	Rastrigin	2	0	#13	17740	0:00:03	98.803	(-0.08, -0.08)			
Steepest	Rastrigin	2	0	#14	17532	0:00:02	99.693	(-0.04, 0.04)			
Steepest	Rastrigin	2	0	#15	17937	0:00:03	97.493	(-0.16, 0.01)			
Steepest	Rastrigin	2	1	#1	17633	0:00:30	99.056	(0.12, -0.04)	100.170	1.223	40.013
Steepest	Rastrigin	2	1	#2	17571	0:00:29	100.442	(-0.05, 0.02)			
Steepest	Rastrigin	2	1	#3	17785	0:00:30	99.905	(-0.13, -0.01)			
Steepest	Rastrigin	2	1	#4	17796	0:00:30	100.228	(-0.01, -0.04)			
Steepest	Rastrigin	2	1	#5	17605	0:00:29	100.554	(0.12, 0.04)			
Steepest	Rastrigin	2	1	#6	17680	0:00:30	100.567	(0.00, -0.04)			
Steepest	Rastrigin	2	1	#7	17764	0:00:30	99.427	(0.08, 0.03)			
Steepest	Rastrigin	2	1	#8	17585	0:00:29	99.298	(-0.02, -0.10)			
Steepest	Rastrigin	2	1	#9	17632	0:00:30	102.003	(0.01, 0.01)			
Steepest	Rastrigin	2	1	#10	17391	0:00:30	100.721	(0.04, 0.06)			
Steepest	Rastrigin	2	1	#11	17711	0:00:29	99.988	(0.10, -0.02)			
Steepest	Rastrigin	2	1	#12	17605	0:00:30	103.253	(-0.01, -0.01)			
Steepest	Rastrigin	2	1	#13	17490	0:00:29	98.456	(-0.02, -0.08)			
Steepest	Rastrigin	2	1	#14	17496	0:00:30	99.764	(-0.08, 0.09)			
Steepest	Rastrigin	2	1	#15	17576	0:00:29	98.887	(0.12, 0.01)			
Steepest	Rastrigin	2	2	#1	17485	0:00:29	100.509	(0.07, 0.08)	100.796	1.022	40.068
Steepest	Rastrigin	2	2	#2	17405	0:00:30	100.762	(0.00, 0.02)			
Steepest	Rastrigin	2	2	#3	17563	0:00:29	100.657	(0.03, -0.03)			
Steepest	Rastrigin	2	2	#4	17462	0:00:30	102.366	(-0.05, -0.03)			
Steepest	Rastrigin	2	2	#5	17469	0:00:29	99.821	(0.06, 0.05)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rastrigin	2	2	#6	17367	0:00:30	100.117	(0.11, -0.07)			
Steepest	Rastrigin	2	2	#7	17466	0:00:29	100.332	(0.00, -0.02)			
Steepest	Rastrigin	2	2	#8	17512	0:00:30	99.862	(-1.96, 0.11)			
Steepest	Rastrigin	2	2	#9	17400	0:00:29	100.418	(2.04, -0.09)			
Steepest	Rastrigin	2	2	#10	17583	0:00:30	102.282	(-0.03, 0.00)			
Steepest	Rastrigin	2	2	#11	17321	0:00:29	100.817	(0.13, 0.16)			
Steepest	Rastrigin	2	2	#12	17522	0:00:30	100.02	(0.06, -0.16)			
Steepest	Rastrigin	2	2	#13	17464	0:00:30	99.784	(-0.11, 0.05)			
Steepest	Rastrigin	2	2	#14	17533	0:00:29	101.044	(-0.10, 0.00)			
Steepest	Rastrigin	2	2	#15	17498	0:00:30	103.142	(-0.10, -0.02)			
Steepest	Rastrigin	2	3	#1	16960	0:00:29	102.212	(-0.08, 0.00)	101.734	2.175	40.144
Steepest	Rastrigin	2	3	#2	17101	0:00:29	99.56	(0.11, 2.00)			
Steepest	Rastrigin	2	3	#3	16870	0:00:29	100.271	(-0.11, -0.05)			
Steepest	Rastrigin	2	3	#4	17175	0:00:30	100.963	(-0.09, -0.11)			
Steepest	Rastrigin	2	3	#5	17003	0:00:29	102.905	(0.16, 0.05)			
Steepest	Rastrigin	2	3	#6	17051	0:00:29	101.921	(-0.02, 0.13)			
Steepest	Rastrigin	2	3	#7	16572	0:00:29	100.867	(1.99, 1.95)			
Steepest	Rastrigin	2	3	#8	16780	0:00:29	98.823	(-0.09, -0.12)			
Steepest	Rastrigin	2	3	#9	16956	0:00:29	104.843	(0.00, -0.03)			
Steepest	Rastrigin	2	3	#10	16809	0:00:29	107.135	(0.03, 0.01)			
Steepest	Rastrigin	2	3	#11	16900	0:00:30	103.575	(0.07, -0.03)			
Steepest	Rastrigin	2	3	#12	16688	0:00:29	99.629	(0.07, -1.88)			
Steepest	Rastrigin	2	3	#13	16996	0:00:29	100.934	(0.04, -0.03)			
Steepest	Rastrigin	2	3	#14	16811	0:00:29	101.168	(-0.11, 0.04)			
Steepest	Rastrigin	2	3	#15	16980	0:00:29	101.208	(-0.05, -0.09)			
Steepest	Rosenbrock	2	0	#1	37603	0:00:04	80	(0.00, 0.01)	80.000	0.000	38.062
Steepest	Rosenbrock	2	0	#2	37906	0:00:04	80	(0.00, -0.08)			
Steepest	Rosenbrock	2	0	#3	37631	0:00:03	80	(-0.01, 0.01)			
Steepest	Rosenbrock	2	0	#4	37541	0:00:04	80	(0.03, 0.09)			
Steepest	Rosenbrock	2	0	#5	37889	0:00:04	80	(0.02, 0.00)			
Steepest	Rosenbrock	2	0	#6	38018	0:00:04	80	(-0.02, -0.01)			
Steepest	Rosenbrock	2	0	#7	37792	0:00:04	80	(0.03, 0.00)			
Steepest	Rosenbrock	2	0	#8	38222	0:00:03	80	(0.02, 0.01)			
Steepest	Rosenbrock	2	0	#9	37663	0:00:04	80	(-0.01, -0.03)			
Steepest	Rosenbrock	2	0	#10	38225	0:00:04	80	(-0.04, -0.01)			
Steepest	Rosenbrock	2	0	#11	38100	0:00:04	80	(0.00, 0.03)			
Steepest	Rosenbrock	2	0	#12	38000	0:00:03	80	(-0.03, -0.02)			
Steepest	Rosenbrock	2	0	#13	38194	0:00:04	80	(-0.03, 0.00)			
Steepest	Rosenbrock	2	0	#14	38198	0:00:04	80	(0.00, 0.03)			
Steepest	Rosenbrock	2	0	#15	38182	0:00:04	80	(-0.02, 0.01)			
Steepest	Rosenbrock	2	1	#1	21413	0:00:33	83.045	(-2.54, -0.03)	83.417	0.252	38.425
Steepest	Rosenbrock	2	1	#2	21091	0:00:32	83.076	(0.84, 10.04)			
Steepest	Rosenbrock	2	1	#3	21421	0:00:33	83.359	(-2.49, 4.52)			
Steepest	Rosenbrock	2	1	#4	20700	0:00:32	83.274	(-2.10, -6.29)			
Steepest	Rosenbrock	2	1	#5	20815	0:00:33	83.472	(-1.71, -2.08)			
Steepest	Rosenbrock	2	1	#6	21069	0:00:32	83.541	(5.37, -7.17)			
Steepest	Rosenbrock	2	1	#7	21045	0:00:33	83.401	(3.77, -3.37)			
Steepest	Rosenbrock	2	1	#8	21225	0:00:32	83.359	(-2.36, 6.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rosenbrock	2	1	#9	21273	0:00:33	83.753	(1.39, -2.40)			
Steepest	Rosenbrock	2	1	#10	21241	0:00:33	83.569	(2.21, -1.60)			
Steepest	Rosenbrock	2	1	#11	20787	0:00:32	83.263	(-2.97, -2.89)			
Steepest	Rosenbrock	2	1	#12	21352	0:00:33	83.865	(2.36, -3.16)			
Steepest	Rosenbrock	2	1	#13	20828	0:00:32	83.125	(1.58, 6.41)			
Steepest	Rosenbrock	2	1	#14	21143	0:00:32	83.792	(-1.94, 1.24)			
Steepest	Rosenbrock	2	1	#15	20622	0:00:33	83.357	(0.29, -5.33)			
Steepest	Rosenbrock	2	2	#1	16059	0:00:29	87.166	(-1.06, -7.59)	86.794	0.638	38.769
Steepest	Rosenbrock	2	2	#2	16160	0:00:29	86.682	(2.73, 0.11)			
Steepest	Rosenbrock	2	2	#3	15835	0:00:29	87.139	(-0.52, 3.56)			
Steepest	Rosenbrock	2	2	#4	15632	0:00:29	85.984	(-2.65, -3.44)			
Steepest	Rosenbrock	2	2	#5	15818	0:00:29	86.605	(-2.13, -6.34)			
Steepest	Rosenbrock	2	2	#6	15405	0:00:29	86.975	(0.46, -2.04)			
Steepest	Rosenbrock	2	2	#7	15762	0:00:28	87.057	(-0.95, 6.64)			
Steepest	Rosenbrock	2	2	#8	15683	0:00:29	85.987	(0.64, -0.08)			
Steepest	Rosenbrock	2	2	#9	15905	0:00:29	85.8	(5.16, -6.57)			
Steepest	Rosenbrock	2	2	#10	15839	0:00:29	87.131	(0.28, -6.36)			
Steepest	Rosenbrock	2	2	#11	15892	0:00:29	87.43	(-5.49, 2.16)			
Steepest	Rosenbrock	2	2	#12	15743	0:00:29	86.601	(0.37, 0.01)			
Steepest	Rosenbrock	2	2	#13	15469	0:00:29	88.028	(2.71, -0.83)			
Steepest	Rosenbrock	2	2	#14	15514	0:00:29	85.994	(1.20, 1.18)			
Steepest	Rosenbrock	2	2	#15	16339	0:00:29	87.326	(-1.24, -9.76)			
Steepest	Rosenbrock	2	3	#1	12529	0:00:27	89.536	(-3.56, -11.69)	90.386	1.170	39.120
Steepest	Rosenbrock	2	3	#2	12995	0:00:27	91.757	(-0.38, 3.20)			
Steepest	Rosenbrock	2	3	#3	12919	0:00:27	90.329	(5.81, -8.06)			
Steepest	Rosenbrock	2	3	#4	12642	0:00:27	93.822	(2.83, -7.37)			
Steepest	Rosenbrock	2	3	#5	12731	0:00:27	90.504	(-6.06, -8.57)			
Steepest	Rosenbrock	2	3	#6	12789	0:00:27	90.657	(-5.70, -4.50)			
Steepest	Rosenbrock	2	3	#7	12760	0:00:26	89.056	(4.51, 2.46)			
Steepest	Rosenbrock	2	3	#8	12963	0:00:27	90.368	(5.22, -5.70)			
Steepest	Rosenbrock	2	3	#9	12862	0:00:27	89.407	(5.06, -19.21)			
Steepest	Rosenbrock	2	3	#10	12949	0:00:27	90.697	(1.42, 4.58)			
Steepest	Rosenbrock	2	3	#11	12782	0:00:27	89.877	(-3.53, -7.85)			
Steepest	Rosenbrock	2	3	#12	12807	0:00:27	89.175	(1.43, 5.30)			
Steepest	Rosenbrock	2	3	#13	12621	0:00:27	90.218	(-6.26, -17.92)			
Steepest	Rosenbrock	2	3	#14	12659	0:00:27	90.224	(0.40, 5.30)			
Steepest	Rosenbrock	2	3	#15	12539	0:00:26	90.165	(3.29, -9.06)			
Steepest	Styblinski	2	0	#1	41570	0:00:03	353.31	(-2.88, -2.88)	353.310	0.026	50.963
Steepest	Styblinski	2	0	#2	41190	0:00:04	353.295	(-2.92, -2.86)			
Steepest	Styblinski	2	0	#3	41554	0:00:03	353.327	(-2.92, -2.91)			
Steepest	Styblinski	2	0	#4	41345	0:00:04	353.324	(-2.92, -2.91)			
Steepest	Styblinski	2	0	#5	41342	0:00:04	353.325	(-2.89, -2.92)			
Steepest	Styblinski	2	0	#6	41202	0:00:03	353.331	(-2.90, -2.90)			
Steepest	Styblinski	2	0	#7	41549	0:00:04	353.313	(-2.93, -2.92)			
Steepest	Styblinski	2	0	#8	41180	0:00:03	353.228	(-2.97, -2.94)			
Steepest	Styblinski	2	0	#9	41485	0:00:04	353.304	(-2.90, -2.86)			
Steepest	Styblinski	2	0	#10	40960	0:00:04	353.306	(-2.94, -2.89)			
Steepest	Styblinski	2	0	#11	41288	0:00:03	353.327	(-2.92, -2.91)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Styblinski	2	0	#12	41227	0:00:04	353.322	(-2.88, -2.91)			
Steepest	Styblinski	2	0	#13	41523	0:00:03	353.293	(-2.94, -2.88)			
Steepest	Styblinski	2	0	#14	41406	0:00:04	353.321	(-2.88, -2.92)			
Steepest	Styblinski	2	0	#15	41415	0:00:04	353.331	(-2.90, -2.90)			
Steepest	Styblinski	2	1	#1	42246	0:00:46	355.148	(-2.73, -2.78)	354.941	0.510	51.003
Steepest	Styblinski	2	1	#2	41430	0:00:46	354.88	(-3.06, -2.99)			
Steepest	Styblinski	2	1	#3	41829	0:00:47	356.467	(-2.87, -3.01)			
Steepest	Styblinski	2	1	#4	41742	0:00:46	354.745	(-3.01, -2.64)			
Steepest	Styblinski	2	1	#5	41590	0:00:46	354.96	(-2.84, -2.66)			
Steepest	Styblinski	2	1	#6	41565	0:00:46	354.335	(-3.08, -2.96)			
Steepest	Styblinski	2	1	#7	41814	0:00:47	354.793	(-3.00, -2.98)			
Steepest	Styblinski	2	1	#8	41571	0:00:46	355.036	(-2.97, -2.64)			
Steepest	Styblinski	2	1	#9	41691	0:00:46	354.544	(-2.77, -2.78)			
Steepest	Styblinski	2	1	#10	41309	0:00:46	354.637	(-2.99, -2.85)			
Steepest	Styblinski	2	1	#11	41151	0:00:46	355.159	(-2.91, -2.90)			
Steepest	Styblinski	2	1	#12	41246	0:00:46	355.279	(-2.91, -2.99)			
Steepest	Styblinski	2	1	#13	41271	0:00:46	354.512	(-2.77, -2.89)			
Steepest	Styblinski	2	1	#14	41108	0:00:45	354.491	(-2.78, -2.82)			
Steepest	Styblinski	2	1	#15	41408	0:00:46	355.124	(-2.92, -2.81)			
Steepest	Styblinski	2	2	#1	41638	0:00:46	356.123	(-3.05, -3.05)	357.289	0.847	51.060
Steepest	Styblinski	2	2	#2	41142	0:00:46	357.818	(-3.07, -2.78)			
Steepest	Styblinski	2	2	#3	41137	0:00:46	359.224	(-3.07, -2.85)			
Steepest	Styblinski	2	2	#4	41246	0:00:46	357.299	(-2.73, -2.90)			
Steepest	Styblinski	2	2	#5	41394	0:00:46	357.238	(-3.02, -3.07)			
Steepest	Styblinski	2	2	#6	41118	0:00:46	357.963	(-2.75, -2.82)			
Steepest	Styblinski	2	2	#7	41784	0:00:46	357.538	(-2.64, -3.01)			
Steepest	Styblinski	2	2	#8	41521	0:00:46	356.166	(-2.65, -2.79)			
Steepest	Styblinski	2	2	#9	41664	0:00:46	356.639	(-2.85, -2.88)			
Steepest	Styblinski	2	2	#10	40954	0:00:46	356.508	(-2.82, -2.64)			
Steepest	Styblinski	2	2	#11	41295	0:00:46	357.239	(-3.06, -3.03)			
Steepest	Styblinski	2	2	#12	41329	0:00:46	357.721	(-3.12, -3.07)			
Steepest	Styblinski	2	2	#13	41216	0:00:46	356.424	(-2.88, -2.75)			
Steepest	Styblinski	2	2	#14	41778	0:00:46	358.238	(-2.70, -2.98)			
Steepest	Styblinski	2	2	#15	41396	0:00:46	357.201	(-2.67, -2.79)			
Steepest	Styblinski	2	3	#1	41470	0:00:46	359.398	(-2.87, -3.07)	359.769	1.561	51.120
Steepest	Styblinski	2	3	#2	40845	0:00:46	358.186	(-2.85, -2.63)			
Steepest	Styblinski	2	3	#3	41432	0:00:46	363.848	(-2.80, -2.67)			
Steepest	Styblinski	2	3	#4	41386	0:00:46	358.446	(-2.79, -2.65)			
Steepest	Styblinski	2	3	#5	41558	0:00:46	359.042	(-2.96, -2.70)			
Steepest	Styblinski	2	3	#6	40920	0:00:46	359.113	(-2.83, -2.97)			
Steepest	Styblinski	2	3	#7	40817	0:00:45	360.113	(-3.06, -2.86)			
Steepest	Styblinski	2	3	#8	41781	0:00:47	360.216	(-2.60, -2.94)			
Steepest	Styblinski	2	3	#9	41213	0:00:46	360.517	(-2.78, -2.68)			
Steepest	Styblinski	2	3	#10	41375	0:00:46	360.509	(-2.90, -3.28)			
Steepest	Styblinski	2	3	#11	41737	0:00:46	358.453	(-3.06, -2.97)			
Steepest	Styblinski	2	3	#12	41533	0:00:46	360.451	(-2.97, -2.77)			
Steepest	Styblinski	2	3	#13	41098	0:00:46	361.294	(-2.93, -2.85)			
Steepest	Styblinski	2	3	#14	42445	0:00:47	357.284	(-2.95, -3.05)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Styblinski	2	3	#15	41498	0:00:46	359.669	(-2.99, -2.88)			
Steepest	Parabolic	3	0	#1	55226	0:00:06	12	(0.00, 0.00, 0.00)	12.000	0.000	21.584
Steepest	Parabolic	3	0	#2	55235	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#3	55116	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#4	55038	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#5	55714	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#6	55329	0:00:06	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#7	55691	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#8	55438	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#9	55767	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#10	55185	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#11	55441	0:00:06	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#12	55543	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#13	55378	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#14	55279	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	0	#15	55441	0:00:05	12	(0.00, 0.00, 0.00)			
Steepest	Parabolic	3	1	#1	8673	0:00:38	15.078	(2.05, -1.73, -7.77)	14.708	0.336	23.346
Steepest	Parabolic	3	1	#2	8579	0:00:37	14.65	(-1.45, -1.77, -6.04)			
Steepest	Parabolic	3	1	#3	8626	0:00:38	14.37	(0.29, -2.57, 5.26)			
Steepest	Parabolic	3	1	#4	8738	0:00:38	14.86	(-1.09, -3.33, -2.45)			
Steepest	Parabolic	3	1	#5	8692	0:00:38	14.439	(-7.72, -5.44, -0.66)			
Steepest	Parabolic	3	1	#6	8698	0:00:38	15.208	(1.34, 1.69, 3.31)			
Steepest	Parabolic	3	1	#7	8575	0:00:37	14.794	(2.06, -0.73, 3.04)			
Steepest	Parabolic	3	1	#8	8610	0:00:38	15.088	(5.20, -4.71, 0.55)			
Steepest	Parabolic	3	1	#9	8609	0:00:38	14.521	(-2.93, -0.84, 2.39)			
Steepest	Parabolic	3	1	#10	8600	0:00:38	15.227	(-6.15, 0.77, -4.03)			
Steepest	Parabolic	3	1	#11	8721	0:00:38	14.284	(2.32, -7.03, -1.23)			
Steepest	Parabolic	3	1	#12	8701	0:00:38	14.194	(3.79, -3.18, 0.29)			
Steepest	Parabolic	3	1	#13	8652	0:00:38	14.725	(-2.93, 2.02, 4.11)			
Steepest	Parabolic	3	1	#14	8654	0:00:37	14.427	(-0.91, -0.64, 2.30)			
Steepest	Parabolic	3	1	#15	8621	0:00:38	14.749	(-1.33, 7.20, 5.30)			
Steepest	Parabolic	3	2	#1	8573	0:00:38	17.351	(0.41, 0.89, -6.40)	18.012	0.902	25.092
Steepest	Parabolic	3	2	#2	8551	0:00:38	18.006	(8.89, -2.11, 2.08)			
Steepest	Parabolic	3	2	#3	8538	0:00:38	17.247	(5.38, -2.01, -3.59)			
Steepest	Parabolic	3	2	#4	8651	0:00:38	17.095	(-4.63, -5.42, -8.85)			
Steepest	Parabolic	3	2	#5	8576	0:00:37	17.48	(2.84, -9.60, -6.96)			
Steepest	Parabolic	3	2	#6	8559	0:00:38	17.664	(-1.51, 2.54, -5.35)			
Steepest	Parabolic	3	2	#7	8631	0:00:38	17.134	(9.86, -3.89, -5.84)			
Steepest	Parabolic	3	2	#8	8506	0:00:38	18.254	(5.42, -7.03, 2.50)			
Steepest	Parabolic	3	2	#9	8504	0:00:38	16.914	(14.41, -7.47, 7.92)			
Steepest	Parabolic	3	2	#10	8567	0:00:37	18.747	(-1.99, -0.78, 4.63)			
Steepest	Parabolic	3	2	#11	8458	0:00:38	18.98	(5.18, 12.03, -1.94)			
Steepest	Parabolic	3	2	#12	8501	0:00:38	18.428	(3.45, 3.00, -0.57)			
Steepest	Parabolic	3	2	#13	8580	0:00:37	18.805	(-5.86, 7.52, -0.12)			
Steepest	Parabolic	3	2	#14	8637	0:00:38	20.203	(-10.09, -0.82, -3.90)			
Steepest	Parabolic	3	2	#15	8551	0:00:38	17.875	(-5.22, 0.18, 2.43)			
Steepest	Parabolic	3	3	#1	8543	0:00:38	21.952	(-5.96, 13.35, -11.23)	21.581	0.875	26.663
Steepest	Parabolic	3	3	#2	8414	0:00:38	21.857	(3.62, -1.68, -7.77)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Parabolic	3	3	#3	8555	0:00:37	20.291	(6.48, 0.69, 2.77)			
Steepest	Parabolic	3	3	#4	8662	0:00:38	21.468	(0.32, -1.09, -2.98)			
Steepest	Parabolic	3	3	#5	8508	0:00:38	23.544	(3.20, 4.33, 3.39)			
Steepest	Parabolic	3	3	#6	8534	0:00:38	20.702	(-5.11, 0.01, -2.91)			
Steepest	Parabolic	3	3	#7	8471	0:00:38	21.993	(1.53, -3.75, -13.50)			
Steepest	Parabolic	3	3	#8	8522	0:00:37	21.369	(-2.98, 2.67, -1.46)			
Steepest	Parabolic	3	3	#9	8541	0:00:38	21.202	(2.72, 5.91, -8.92)			
Steepest	Parabolic	3	3	#10	8537	0:00:38	21.676	(-11.83, -9.26, -10.23)			
Steepest	Parabolic	3	3	#11	8525	0:00:38	21.221	(0.38, -0.30, -4.09)			
Steepest	Parabolic	3	3	#12	8563	0:00:37	20.799	(5.36, -4.01, 4.01)			
Steepest	Parabolic	3	3	#13	8653	0:00:38	20.829	(-0.83, 10.88, 7.47)			
Steepest	Parabolic	3	3	#14	8558	0:00:38	21.645	(-4.48, 12.87, 3.81)			
Steepest	Parabolic	3	3	#15	8595	0:00:38	23.168	(2.34, -3.60, 5.86)			
Steepest	Shekel	3	0	#1	45169	0:00:08	18.671	(5.93, -6.94, -2.02)	18.662	0.014	25.419
Steepest	Shekel	3	0	#2	45462	0:00:08	18.658	(5.94, -6.91, -2.06)			
Steepest	Shekel	3	0	#3	45294	0:00:07	18.67	(6.01, -7.01, -2.03)			
Steepest	Shekel	3	0	#4	45283	0:00:08	18.642	(5.96, -7.01, -1.90)			
Steepest	Shekel	3	0	#5	44724	0:00:08	18.665	(5.95, -6.90, -2.02)			
Steepest	Shekel	3	0	#6	45355	0:00:07	18.676	(6.00, -6.96, -1.99)			
Steepest	Shekel	3	0	#7	44913	0:00:08	18.676	(5.95, -6.94, -2.02)			
Steepest	Shekel	3	0	#8	44998	0:00:08	18.639	(5.95, -6.87, -2.07)			
Steepest	Shekel	3	0	#9	44916	0:00:07	18.661	(6.01, -6.90, -2.02)			
Steepest	Shekel	3	0	#10	45580	0:00:08	18.668	(5.91, -6.94, -2.01)			
Steepest	Shekel	3	0	#11	45120	0:00:08	18.664	(5.94, -6.90, -2.00)			
Steepest	Shekel	3	0	#12	45342	0:00:08	18.676	(5.97, -6.99, -1.98)			
Steepest	Shekel	3	0	#13	45589	0:00:07	18.661	(5.91, -6.92, -2.02)			
Steepest	Shekel	3	0	#14	45066	0:00:08	18.666	(5.96, -6.94, -2.07)			
Steepest	Shekel	3	0	#15	45481	0:00:08	18.632	(5.86, -6.90, -2.01)			
Steepest	Shekel	3	1	#1	8685	0:00:40	18.024	(6.39, -7.64, -2.09)	17.854	1.726	24.913
Steepest	Shekel	3	1	#2	8702	0:00:39	15.12	(6.14, -5.71, -1.49)			
Steepest	Shekel	3	1	#3	8663	0:00:40	18.966	(6.71, -6.76, -2.07)			
Steepest	Shekel	3	1	#4	8662	0:00:39	18.788	(6.22, -7.60, -2.60)			
Steepest	Shekel	3	1	#5	8635	0:00:40	18.644	(6.75, -6.87, -2.01)			
Steepest	Shekel	3	1	#6	8660	0:00:39	15	(5.95, -7.58, -0.69)			
Steepest	Shekel	3	1	#7	8590	0:00:40	19.655	(5.96, -6.37, -2.31)			
Steepest	Shekel	3	1	#8	8791	0:00:40	19.535	(6.25, -6.47, -2.46)			
Steepest	Shekel	3	1	#9	8660	0:00:39	19.818	(5.85, -6.73, -1.79)			
Steepest	Shekel	3	1	#10	8586	0:00:40	17.261	(5.38, -6.82, -1.43)			
Steepest	Shekel	3	1	#11	8701	0:00:39	19.701	(5.75, -6.59, -1.98)			
Steepest	Shekel	3	1	#12	8735	0:00:40	17.958	(6.13, -7.52, -1.54)			
Steepest	Shekel	3	1	#13	8710	0:00:39	17.635	(6.24, -6.21, -2.04)			
Steepest	Shekel	3	1	#14	8570	0:00:40	16.739	(5.07, -7.95, -2.13)			
Steepest	Shekel	3	1	#15	8684	0:00:40	14.967	(6.61, -7.36, -3.22)			
Steepest	Shekel	3	2	#1	8710	0:00:39	18.279	(6.42, -7.61, -2.76)	17.557	1.649	24.821
Steepest	Shekel	3	2	#2	8538	0:00:40	19.172	(6.15, -7.65, -1.65)			
Steepest	Shekel	3	2	#3	8572	0:00:39	19.983	(6.53, -6.37, -2.78)			
Steepest	Shekel	3	2	#4	8501	0:00:40	18.195	(4.43, 6.40, -2.27)			
Steepest	Shekel	3	2	#5	8646	0:00:39	16.321	(3.71, 5.38, -2.88)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Shekel	3	2	#6	8581	0:00:40	18.757	(5.75, -7.55, -2.13)			
Steepest	Shekel	3	2	#7	8692	0:00:39	17.077	(6.33, -6.96, -1.48)			
Steepest	Shekel	3	2	#8	8558	0:00:40	17.632	(5.30, 6.33, -2.31)			
Steepest	Shekel	3	2	#9	8634	0:00:39	18.299	(5.19, -7.20, -2.18)			
Steepest	Shekel	3	2	#10	8656	0:00:40	20.208	(5.40, -7.03, -1.50)			
Steepest	Shekel	3	2	#11	8664	0:00:40	17.308	(6.04, -7.54, -0.64)			
Steepest	Shekel	3	2	#12	8441	0:00:39	16.502	(6.89, -5.88, -2.18)			
Steepest	Shekel	3	2	#13	8591	0:00:39	14.88	(7.83, -6.86, -2.42)			
Steepest	Shekel	3	2	#14	8525	0:00:40	15.419	(5.01, -5.01, -2.24)			
Steepest	Shekel	3	2	#15	8539	0:00:39	15.329	(5.53, -5.37, -2.22)			
Steepest	Shekel	3	3	#1	8618	0:00:39	18.831	(5.39, -7.77, -4.11)	19.316	1.644	25.649
Steepest	Shekel	3	3	#2	8545	0:00:39	19.865	(6.52, -6.34, -1.41)			
Steepest	Shekel	3	3	#3	8662	0:00:40	19.038	(4.52, -5.94, -1.64)			
Steepest	Shekel	3	3	#4	8627	0:00:40	16.298	(6.43, -5.71, -0.99)			
Steepest	Shekel	3	3	#5	8682	0:00:39	17.245	(6.17, -6.06, -2.30)			
Steepest	Shekel	3	3	#6	8611	0:00:40	19.334	(6.50, -6.66, -2.45)			
Steepest	Shekel	3	3	#7	8665	0:00:39	18.825	(3.67, 5.54, -1.37)			
Steepest	Shekel	3	3	#8	8664	0:00:40	21.997	(6.06, -6.84, -1.85)			
Steepest	Shekel	3	3	#9	8602	0:00:39	21.998	(6.12, -7.45, -2.61)			
Steepest	Shekel	3	3	#10	8706	0:00:40	20.106	(5.87, -5.98, -1.63)			
Steepest	Shekel	3	3	#11	8581	0:00:39	19.187	(6.34, -5.96, -2.16)			
Steepest	Shekel	3	3	#12	8450	0:00:40	21.453	(6.12, -7.54, -2.08)			
Steepest	Shekel	3	3	#13	8531	0:00:39	19.702	(5.97, -6.76, -0.10)			
Steepest	Shekel	3	3	#14	8527	0:00:40	18.035	(5.50, -6.37, -1.90)			
Steepest	Shekel	3	3	#15	8678	0:00:39	17.83	(4.70, 4.75, -1.92)			
Steepest	Rastrigin	3	0	#1	18596	0:00:04	107.144	(-2.03, 2.00, -1.90)	112.504	2.037	41.020
Steepest	Rastrigin	3	0	#2	18731	0:00:05	112.839	(-0.18, -1.97, -0.04)			
Steepest	Rastrigin	3	0	#3	18523	0:00:04	113.787	(2.11, 0.08, 0.00)			
Steepest	Rastrigin	3	0	#4	18597	0:00:04	111.974	(-2.01, -2.00, 0.00)			
Steepest	Rastrigin	3	0	#5	18640	0:00:04	113.666	(-1.82, 0.02, -0.01)			
Steepest	Rastrigin	3	0	#6	18287	0:00:04	112.481	(2.00, 0.19, 0.01)			
Steepest	Rastrigin	3	0	#7	18565	0:00:04	115.218	(2.04, -0.01, -0.07)			
Steepest	Rastrigin	3	0	#8	18615	0:00:04	113.473	(-2.14, -0.02, 0.01)			
Steepest	Rastrigin	3	0	#9	18760	0:00:04	111.48	(2.03, -0.04, 1.93)			
Steepest	Rastrigin	3	0	#10	18378	0:00:04	115.353	(0.01, 2.06, -0.02)			
Steepest	Rastrigin	3	0	#11	18585	0:00:04	110.937	(0.06, 1.99, 2.07)			
Steepest	Rastrigin	3	0	#12	18477	0:00:04	113.626	(-0.04, -0.04, 0.25)			
Steepest	Rastrigin	3	0	#13	18413	0:00:04	111.034	(-0.06, -1.77, -0.07)			
Steepest	Rastrigin	3	0	#14	18387	0:00:04	111.146	(1.90, -2.02, -0.04)			
Steepest	Rastrigin	3	0	#15	18783	0:00:04	113.395	(0.16, -0.01, 1.97)			
Steepest	Rastrigin	3	1	#1	18374	0:00:44	112.159	(0.18, -2.11, -0.02)	111.383	2.885	40.928
Steepest	Rastrigin	3	1	#2	18731	0:00:45	111.463	(-1.86, -0.08, 1.99)			
Steepest	Rastrigin	3	1	#3	18505	0:00:44	109.574	(1.95, 2.08, -0.13)			
Steepest	Rastrigin	3	1	#4	18340	0:00:44	111.062	(1.97, -2.08, 0.10)			
Steepest	Rastrigin	3	1	#5	18522	0:00:44	112.768	(-2.06, 0.06, -0.12)			
Steepest	Rastrigin	3	1	#6	18599	0:00:45	114.349	(-0.05, 0.13, 1.94)			
Steepest	Rastrigin	3	1	#7	18511	0:00:44	117.827	(-0.06, -0.12, 0.01)			
Steepest	Rastrigin	3	1	#8	18519	0:00:44	105.544	(-1.72, -0.01, 1.98)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rastrigin	3	1	#9	18389	0:00:44	112.59	(-0.10, 1.99, 0.11)			
Steepest	Rastrigin	3	1	#10	18516	0:00:45	110.799	(-0.14, 2.14, -0.12)			
Steepest	Rastrigin	3	1	#11	18481	0:00:44	111.672	(-0.03, -1.98, -2.09)			
Steepest	Rastrigin	3	1	#12	18480	0:00:44	112.885	(0.10, -2.04, -0.07)			
Steepest	Rastrigin	3	1	#13	18366	0:00:44	109.586	(-2.14, 1.99, -0.05)			
Steepest	Rastrigin	3	1	#14	18613	0:00:44	107.047	(-0.25, -0.27, 0.07)			
Steepest	Rastrigin	3	1	#15	18350	0:00:44	111.419	(0.12, 0.14, -1.86)			
Steepest	Rastrigin	3	2	#1	18368	0:00:44	112.176	(2.04, -0.02, 0.13)	113.006	3.584	41.051
Steepest	Rastrigin	3	2	#2	18508	0:00:44	110.336	(-1.91, 1.82, 0.01)			
Steepest	Rastrigin	3	2	#3	18576	0:00:45	114.984	(0.07, -2.02, -2.06)			
Steepest	Rastrigin	3	2	#4	18874	0:00:44	115.534	(0.13, 0.00, -2.01)			
Steepest	Rastrigin	3	2	#5	18671	0:00:44	118.427	(0.01, -0.09, -1.91)			
Steepest	Rastrigin	3	2	#6	18659	0:00:45	111.416	(1.73, 0.06, -0.04)			
Steepest	Rastrigin	3	2	#7	18468	0:00:44	118.913	(-1.95, 0.06, 0.03)			
Steepest	Rastrigin	3	2	#8	18451	0:00:44	113.848	(-0.15, -0.03, 0.25)			
Steepest	Rastrigin	3	2	#9	18461	0:00:44	108.099	(2.18, 0.05, 1.86)			
Steepest	Rastrigin	3	2	#10	18502	0:00:45	112.161	(0.03, 2.07, 0.02)			
Steepest	Rastrigin	3	2	#11	18678	0:00:44	118.185	(0.04, -0.23, 0.05)			
Steepest	Rastrigin	3	2	#12	18256	0:00:44	112.575	(2.08, 0.04, -2.08)			
Steepest	Rastrigin	3	2	#13	18470	0:00:44	107.678	(1.96, -0.05, -2.23)			
Steepest	Rastrigin	3	2	#14	18518	0:00:44	110.74	(-0.02, -2.01, -1.96)			
Steepest	Rastrigin	3	2	#15	18210	0:00:44	110.021	(-1.92, -0.01, -0.22)			
Steepest	Rastrigin	3	3	#1	18173	0:00:45	115.705	(0.09, 0.17, -2.05)	115.084	3.633	41.209
Steepest	Rastrigin	3	3	#2	18345	0:00:44	119.088	(0.09, -0.01, -0.05)			
Steepest	Rastrigin	3	3	#3	18117	0:00:45	118.209	(-2.03, 0.00, -0.10)			
Steepest	Rastrigin	3	3	#4	18059	0:00:44	117.817	(-0.15, -0.04, -1.98)			
Steepest	Rastrigin	3	3	#5	18205	0:00:44	111.046	(2.08, -1.97, 0.07)			
Steepest	Rastrigin	3	3	#6	18329	0:00:45	119.634	(-2.02, -0.13, 0.06)			
Steepest	Rastrigin	3	3	#7	18122	0:00:44	119.129	(0.04, 0.01, 0.00)			
Steepest	Rastrigin	3	3	#8	18381	0:00:44	113.327	(2.07, 2.03, 0.06)			
Steepest	Rastrigin	3	3	#9	18181	0:00:45	107.583	(-2.24, -2.03, 0.04)			
Steepest	Rastrigin	3	3	#10	18180	0:00:44	119.238	(0.03, 0.07, 0.16)			
Steepest	Rastrigin	3	3	#11	18068	0:00:44	113.376	(-1.85, 0.02, -1.98)			
Steepest	Rastrigin	3	3	#12	18268	0:00:44	112.616	(-2.11, -0.11, 0.21)			
Steepest	Rastrigin	3	3	#13	18597	0:00:45	112.636	(-1.91, -0.02, 2.01)			
Steepest	Rastrigin	3	3	#14	18258	0:00:44	114.007	(2.15, 0.15, 0.09)			
Steepest	Rastrigin	3	3	#15	18248	0:00:45	112.846	(-1.93, 0.18, -0.06)			
Steepest	Rosenbrock	3	0	#1	39332	0:00:06	79.997	(-0.28, -0.14, 0.14)	79.996	0.003	38.061
Steepest	Rosenbrock	3	0	#2	39794	0:00:05	79.988	(0.77, -0.87, 0.02)			
Steepest	Rosenbrock	3	0	#3	39615	0:00:06	79.994	(-0.58, -0.10, -0.15)			
Steepest	Rosenbrock	3	0	#4	38795	0:00:05	79.996	(0.61, -0.19, -0.01)			
Steepest	Rosenbrock	3	0	#5	39109	0:00:05	79.994	(-0.07, -0.79, 0.09)			
Steepest	Rosenbrock	3	0	#6	39749	0:00:06	79.996	(0.43, -0.37, 0.07)			
Steepest	Rosenbrock	3	0	#7	39372	0:00:05	79.995	(-0.07, 0.76, -0.05)			
Steepest	Rosenbrock	3	0	#8	39182	0:00:06	80	(0.00, 0.23, 0.00)			
Steepest	Rosenbrock	3	0	#9	39249	0:00:05	79.993	(-0.61, 0.17, 0.11)			
Steepest	Rosenbrock	3	0	#10	39675	0:00:06	79.999	(-0.06, 0.23, 0.04)			
Steepest	Rosenbrock	3	0	#11	39381	0:00:05	79.995	(-0.31, 0.57, -0.09)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rosenbrock	3	0	#12	39657	0:00:05	79.998	(-0.24, -0.23, -0.12)			
Steepest	Rosenbrock	3	0	#13	39053	0:00:06	79.993	(-0.71, 0.27, 0.02)			
Steepest	Rosenbrock	3	0	#14	39101	0:00:05	79.997	(-0.48, -0.09, 0.02)			
Steepest	Rosenbrock	3	0	#15	39122	0:00:06	79.998	(-0.03, 0.37, -0.11)			
Steepest	Rosenbrock	3	1	#1	24634	0:00:49	83.141	(2.06, -6.61, -1.17)	82.753	0.430	38.355
Steepest	Rosenbrock	3	1	#2	25009	0:00:50	83.507	(4.63, -4.50, 0.30)			
Steepest	Rosenbrock	3	1	#3	25353	0:00:50	83.213	(-1.23, -1.00, -0.12)			
Steepest	Rosenbrock	3	1	#4	24750	0:00:49	82.232	(-1.93, -3.12, -1.08)			
Steepest	Rosenbrock	3	1	#5	25256	0:00:50	82.326	(-4.36, -12.40, -3.01)			
Steepest	Rosenbrock	3	1	#6	25509	0:00:49	82.862	(-2.10, -5.16, -0.88)			
Steepest	Rosenbrock	3	1	#7	24788	0:00:50	82.16	(-1.09, 5.76, 0.97)			
Steepest	Rosenbrock	3	1	#8	24666	0:00:49	82.183	(-3.78, -1.09, -0.71)			
Steepest	Rosenbrock	3	1	#9	25045	0:00:50	82.589	(1.45, -6.08, -0.52)			
Steepest	Rosenbrock	3	1	#10	24907	0:00:49	82.522	(-1.54, 2.50, 0.89)			
Steepest	Rosenbrock	3	1	#11	24814	0:00:49	83.235	(-1.23, 1.03, -1.22)			
Steepest	Rosenbrock	3	1	#12	24894	0:00:50	83.052	(-1.89, -0.52, 0.42)			
Steepest	Rosenbrock	3	1	#13	25060	0:00:49	82.487	(2.52, -1.56, 0.90)			
Steepest	Rosenbrock	3	1	#14	24745	0:00:50	82.88	(2.72, 1.18, 1.76)			
Steepest	Rosenbrock	3	1	#15	24868	0:00:49	82.902	(0.13, -0.56, -1.25)			
Steepest	Rosenbrock	3	2	#1	19526	0:00:46	85.347	(6.20, -4.94, -5.14)	85.635	0.738	38.652
Steepest	Rosenbrock	3	2	#2	19545	0:00:46	85.695	(-3.87, 6.94, -1.81)			
Steepest	Rosenbrock	3	2	#3	19588	0:00:46	86.685	(0.01, -1.13, 1.75)			
Steepest	Rosenbrock	3	2	#4	19416	0:00:45	84.14	(0.82, -4.94, 2.09)			
Steepest	Rosenbrock	3	2	#5	18942	0:00:46	85.982	(-2.98, 2.67, -1.46)			
Steepest	Rosenbrock	3	2	#6	18922	0:00:45	85.25	(-0.50, 4.46, 1.10)			
Steepest	Rosenbrock	3	2	#7	19563	0:00:46	86.167	(-1.07, -9.70, 4.02)			
Steepest	Rosenbrock	3	2	#8	18997	0:00:46	85.194	(0.92, 1.03, -0.17)			
Steepest	Rosenbrock	3	2	#9	19571	0:00:46	86.291	(0.64, 1.71, -1.18)			
Steepest	Rosenbrock	3	2	#10	19352	0:00:46	85.825	(2.88, -4.49, 0.78)			
Steepest	Rosenbrock	3	2	#11	19344	0:00:47	85.187	(-3.59, -1.56, -3.25)			
Steepest	Rosenbrock	3	2	#12	19511	0:00:47	85.506	(-3.51, 5.52, -0.49)			
Steepest	Rosenbrock	3	2	#13	19624	0:00:46	84.564	(5.78, -5.13, -3.07)			
Steepest	Rosenbrock	3	2	#14	19349	0:00:46	85.795	(-2.74, 0.26, 0.02)			
Steepest	Rosenbrock	3	2	#15	19340	0:00:46	86.896	(-3.43, -0.82, -1.38)			
Steepest	Rosenbrock	3	3	#1	16175	0:00:43	88.318	(5.42, -4.96, -3.76)	88.726	1.000	38.960
Steepest	Rosenbrock	3	3	#2	16070	0:00:44	89.766	(6.13, -6.85, -0.01)			
Steepest	Rosenbrock	3	3	#3	15774	0:00:43	87.338	(-1.48, -8.00, -1.95)			
Steepest	Rosenbrock	3	3	#4	16234	0:00:44	88.928	(-3.58, 4.51, 3.30)			
Steepest	Rosenbrock	3	3	#5	16069	0:00:43	91.271	(5.09, -11.50, -0.43)			
Steepest	Rosenbrock	3	3	#6	16555	0:00:44	88.524	(-5.61, -2.03, -2.43)			
Steepest	Rosenbrock	3	3	#7	16139	0:00:43	88.207	(-2.20, 6.53, -2.27)			
Steepest	Rosenbrock	3	3	#8	16304	0:00:44	88.209	(-3.18, 7.80, -2.90)			
Steepest	Rosenbrock	3	3	#9	16152	0:00:43	87.884	(-7.12, -17.26, 0.48)			
Steepest	Rosenbrock	3	3	#10	16001	0:00:44	88.395	(6.05, -12.97, -3.84)			
Steepest	Rosenbrock	3	3	#11	16375	0:00:43	89.666	(-0.22, 16.28, 0.29)			
Steepest	Rosenbrock	3	3	#12	16162	0:00:44	89.005	(7.17, -13.33, -5.62)			
Steepest	Rosenbrock	3	3	#13	16129	0:00:43	87.678	(0.07, 11.48, -1.61)			
Steepest	Rosenbrock	3	3	#14	16327	0:00:44	89.492	(-1.80, 2.07, 0.64)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rosenbrock	3	3	#15	15973	0:00:43	88.206	(-3.14, -4.48, 2.05)			
Steepest	Styblinski	3	0	#1	42841	0:00:05	392.301	(-2.85, -2.87, -2.82)	391.795	0.676	51.861
Steepest	Styblinski	3	0	#2	43567	0:00:05	392.108	(-2.93, -2.82, -3.02)			
Steepest	Styblinski	3	0	#3	43720	0:00:05	391.854	(-2.87, -2.84, -2.72)			
Steepest	Styblinski	3	0	#4	43433	0:00:05	391.273	(-3.09, -3.09, -2.92)			
Steepest	Styblinski	3	0	#5	43774	0:00:06	392.094	(-3.02, -3.00, -2.90)			
Steepest	Styblinski	3	0	#6	43433	0:00:05	391.816	(-2.95, -2.81, -2.73)			
Steepest	Styblinski	3	0	#7	42894	0:00:05	391.766	(-2.78, -3.07, -2.90)			
Steepest	Styblinski	3	0	#8	44024	0:00:05	390.117	(-3.17, -2.83, -2.66)			
Steepest	Styblinski	3	0	#9	43083	0:00:05	392.062	(-2.76, -2.83, -2.92)			
Steepest	Styblinski	3	0	#10	43381	0:00:05	392.319	(-2.90, -2.99, -2.85)			
Steepest	Styblinski	3	0	#11	43383	0:00:05	391.95	(-3.06, -2.83, -2.90)			
Steepest	Styblinski	3	0	#12	44026	0:00:05	392.071	(-2.89, -2.88, -3.05)			
Steepest	Styblinski	3	0	#13	43679	0:00:05	392.334	(-2.92, -2.99, -2.94)			
Steepest	Styblinski	3	0	#14	42892	0:00:05	392.391	(-2.98, -2.91, -2.89)			
Steepest	Styblinski	3	0	#15	43712	0:00:05	390.468	(-2.87, -2.80, -2.56)			
Steepest	Styblinski	3	1	#1	43106	0:01:01	392.165	(-2.81, -2.80, -3.14)	392.213	0.807	51.870
Steepest	Styblinski	3	1	#2	43027	0:01:02	391.364	(-3.06, -2.67, -2.73)			
Steepest	Styblinski	3	1	#3	43177	0:01:01	390.621	(-2.91, -2.84, -2.56)			
Steepest	Styblinski	3	1	#4	43262	0:01:02	392.583	(-3.06, -2.87, -2.73)			
Steepest	Styblinski	3	1	#5	42722	0:01:01	392.78	(-3.01, -2.85, -2.89)			
Steepest	Styblinski	3	1	#6	43745	0:01:02	393.03	(-2.99, -2.94, -2.79)			
Steepest	Styblinski	3	1	#7	43190	0:01:01	392.01	(-2.94, -2.69, -3.08)			
Steepest	Styblinski	3	1	#8	43400	0:01:02	392.694	(-2.78, -3.05, -2.80)			
Steepest	Styblinski	3	1	#9	43220	0:01:01	393.456	(-3.02, -2.96, -2.95)			
Steepest	Styblinski	3	1	#10	43377	0:01:02	392.868	(-2.74, -3.07, -2.83)			
Steepest	Styblinski	3	1	#11	43500	0:01:01	392.665	(-2.94, -2.65, -2.98)			
Steepest	Styblinski	3	1	#12	43704	0:01:02	392.13	(-2.90, -2.89, -2.71)			
Steepest	Styblinski	3	1	#13	43680	0:01:02	392.224	(-2.97, -3.08, -2.99)			
Steepest	Styblinski	3	1	#14	43768	0:01:02	390.751	(-2.76, -2.79, -2.57)			
Steepest	Styblinski	3	1	#15	43816	0:01:02	391.852	(-2.86, -2.76, -2.75)			
Steepest	Styblinski	3	2	#1	43957	0:01:02	392.545	(-3.19, -3.10, -2.67)	392.948	1.038	51.887
Steepest	Styblinski	3	2	#2	43885	0:01:02	392.433	(-3.16, -2.71, -3.01)			
Steepest	Styblinski	3	2	#3	42972	0:01:01	390.496	(-2.59, -3.28, -2.95)			
Steepest	Styblinski	3	2	#4	43139	0:01:02	391.916	(-2.70, -2.92, -2.88)			
Steepest	Styblinski	3	2	#5	42984	0:01:01	392.567	(-2.68, -3.02, -2.80)			
Steepest	Styblinski	3	2	#6	43734	0:01:02	394.035	(-3.10, -2.91, -2.88)			
Steepest	Styblinski	3	2	#7	43211	0:01:02	393.932	(-3.04, -2.83, -2.63)			
Steepest	Styblinski	3	2	#8	43866	0:01:02	392.575	(-2.85, -2.65, -2.70)			
Steepest	Styblinski	3	2	#9	43509	0:01:01	394.212	(-2.92, -2.76, -2.97)			
Steepest	Styblinski	3	2	#10	44149	0:01:02	393.934	(-2.82, -2.84, -3.13)			
Steepest	Styblinski	3	2	#11	43448	0:01:02	393.702	(-2.85, -2.77, -3.06)			
Steepest	Styblinski	3	2	#12	42875	0:01:01	392.455	(-2.83, -2.72, -2.54)			
Steepest	Styblinski	3	2	#13	43430	0:01:02	392.3	(-2.82, -3.25, -2.89)			
Steepest	Styblinski	3	2	#14	43272	0:01:02	393.004	(-2.87, -3.02, -3.03)			
Steepest	Styblinski	3	2	#15	43497	0:01:01	394.107	(-2.83, -2.72, -2.86)			
Steepest	Styblinski	3	3	#1	43504	0:01:01	390.158	(-2.92, -3.30, -3.07)	394.345	2.181	51.917
Steepest	Styblinski	3	3	#2	43469	0:01:02	397.497	(-2.83, -2.62, -2.85)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Styblinski	3	3	#3	44006	0:01:02	391.711	(-2.56, -2.87, -2.88)			
Steepest	Styblinski	3	3	#4	44188	0:01:02	392.685	(-2.98, -3.44, -2.87)			
Steepest	Styblinski	3	3	#5	43529	0:01:02	395.803	(-2.99, -3.06, -2.85)			
Steepest	Styblinski	3	3	#6	43200	0:01:01	395.405	(-3.17, -2.64, -2.99)			
Steepest	Styblinski	3	3	#7	43305	0:01:02	393.339	(-2.78, -3.11, -3.35)			
Steepest	Styblinski	3	3	#8	43068	0:01:02	395.247	(-2.90, -3.13, -2.41)			
Steepest	Styblinski	3	3	#9	43513	0:01:01	391.529	(-3.33, -2.94, -3.12)			
Steepest	Styblinski	3	3	#10	43715	0:01:02	393.483	(-2.71, -2.66, -3.04)			
Steepest	Styblinski	3	3	#11	43645	0:01:02	395.007	(-3.30, -3.11, -2.58)			
Steepest	Styblinski	3	3	#12	43382	0:01:02	394.94	(-2.54, -2.91, -2.70)			
Steepest	Styblinski	3	3	#13	42967	0:01:01	397.022	(-2.64, -3.29, -2.92)			
Steepest	Styblinski	3	3	#14	43606	0:01:02	394.231	(-2.88, -2.66, -2.90)			
Steepest	Styblinski	3	3	#15	43718	0:01:01	397.119	(-2.53, -2.64, -2.89)			
Steepest	Parabolic	4	0	#1	58952	0:00:08	12	(0.00, 0.00, 0.00, 0.00)	12.000	0.000	21.584
Steepest	Parabolic	4	0	#2	58480	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#3	59124	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#4	58910	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#5	58874	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#6	59050	0:00:09	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#7	59021	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#8	58999	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#9	58624	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#10	59131	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#11	58758	0:00:09	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#12	58712	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#13	58921	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#14	58809	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	0	#15	58633	0:00:08	12	(0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	4	1	#1	8634	0:01:06	14.068	(-0.24, 5.90, 2.10, -11.76)	14.282	0.331	23.090
Steepest	Parabolic	4	1	#2	8619	0:01:06	14.588	(1.79, -0.87, 2.00, -2.67)			
Steepest	Parabolic	4	1	#3	8851	0:01:06	14.631	(6.17, -4.89, -1.28, 2.54)			
Steepest	Parabolic	4	1	#4	8742	0:01:07	14.431	(-1.39, -1.56, 1.05, -6.17)			
Steepest	Parabolic	4	1	#5	8844	0:01:06	14.039	(-3.78, 2.87, -6.41, 1.20)			
Steepest	Parabolic	4	1	#6	8758	0:01:06	14.25	(6.11, 0.95, -1.76, -8.83)			
Steepest	Parabolic	4	1	#7	8643	0:01:06	13.81	(-1.57, 6.61, 2.59, 0.31)			
Steepest	Parabolic	4	1	#8	8659	0:01:07	14.48	(-2.83, -6.54, 1.51, -4.01)			
Steepest	Parabolic	4	1	#9	8724	0:01:06	14.843	(2.94, 5.51, 1.79, -2.33)			
Steepest	Parabolic	4	1	#10	8630	0:01:06	14.399	(4.69, 3.95, 0.26, -1.67)			
Steepest	Parabolic	4	1	#11	8650	0:01:06	14.005	(0.21, 1.63, 3.51, -1.89)			
Steepest	Parabolic	4	1	#12	8649	0:01:06	13.748	(-1.06, -4.87, -0.36, 7.53)			
Steepest	Parabolic	4	1	#13	8709	0:01:07	13.926	(2.97, 3.30, -1.20, 0.28)			
Steepest	Parabolic	4	1	#14	8657	0:01:06	14.438	(-3.47, 2.83, -2.92, 2.36)			
Steepest	Parabolic	4	1	#15	8738	0:01:06	14.573	(1.45, -4.33, -4.68, -2.48)			
Steepest	Parabolic	4	2	#1	8529	0:01:07	18.284	(6.72, -6.52, 0.91, -2.73)	17.378	0.558	24.789
Steepest	Parabolic	4	2	#2	8542	0:01:06	16.888	(-6.54, 3.00, -3.92, 9.26)			
Steepest	Parabolic	4	2	#3	8570	0:01:06	17.139	(-7.42, 4.06, -12.15, -0.55)			
Steepest	Parabolic	4	2	#4	8446	0:01:06	17.303	(1.81, 7.84, -3.05, 5.45)			
Steepest	Parabolic	4	2	#5	8538	0:01:06	17.199	(-15.31, -3.97, -1.88, 4.52)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Parabolic	4	2	#6	8616	0:01:06	17.933	(-1.03, -6.28, 4.73, -6.64)			
Steepest	Parabolic	4	2	#7	8699	0:01:07	16.901	(-0.20, 9.08, -0.01, -2.06)			
Steepest	Parabolic	4	2	#8	8658	0:01:06	18.368	(2.37, 9.73, 3.39, 2.66)			
Steepest	Parabolic	4	2	#9	8515	0:01:06	17.418	(-1.42, 2.01, 2.89, -5.03)			
Steepest	Parabolic	4	2	#10	8597	0:01:06	17.826	(0.03, 4.94, 5.91, 1.54)			
Steepest	Parabolic	4	2	#11	8556	0:01:06	17.244	(-2.08, -2.93, -2.92, -5.29)			
Steepest	Parabolic	4	2	#12	8680	0:01:06	17.321	(-10.87, -0.26, 7.15, -5.26)			
Steepest	Parabolic	4	2	#13	8578	0:01:06	17.669	(6.00, 0.09, 0.50, 1.81)			
Steepest	Parabolic	4	2	#14	8688	0:01:06	16.837	(-0.12, -11.85, 5.34, -5.64)			
Steepest	Parabolic	4	2	#15	8576	0:01:07	16.333	(0.20, -2.34, -2.51, -1.10)			
Steepest	Parabolic	4	3	#1	8577	0:01:06	20.604	(-1.43, 1.90, 12.60, -0.50)	20.771	0.846	26.330
Steepest	Parabolic	4	3	#2	8546	0:01:06	22.732	(-1.04, 8.87, -5.57, -0.27)			
Steepest	Parabolic	4	3	#3	8581	0:01:06	20.55	(8.98, 3.37, 10.33, -2.00)			
Steepest	Parabolic	4	3	#4	8671	0:01:06	20.698	(0.06, 6.12, -1.41, 5.67)			
Steepest	Parabolic	4	3	#5	8564	0:01:06	19.816	(-6.58, 13.05, -2.80, 12.74)			
Steepest	Parabolic	4	3	#6	8574	0:01:06	20.642	(-0.30, -7.46, 0.24, 5.94)			
Steepest	Parabolic	4	3	#7	8534	0:01:06	20.261	(4.81, 5.04, -7.31, 4.84)			
Steepest	Parabolic	4	3	#8	8578	0:01:06	22.352	(-0.49, -2.56, 9.98, -2.88)			
Steepest	Parabolic	4	3	#9	8642	0:01:06	20.332	(-0.16, 6.83, -5.78, -7.72)			
Steepest	Parabolic	4	3	#10	8481	0:01:06	20.624	(-3.22, -1.63, -8.45, 5.64)			
Steepest	Parabolic	4	3	#11	8592	0:01:06	21.332	(4.93, -7.24, -0.11, -5.56)			
Steepest	Parabolic	4	3	#12	8595	0:01:06	19.875	(7.71, -2.25, 1.57, 1.63)			
Steepest	Parabolic	4	3	#13	8610	0:01:07	19.917	(5.88, -6.32, -4.07, 8.87)			
Steepest	Parabolic	4	3	#14	8476	0:01:06	21.295	(-5.66, -4.10, -1.66, -2.87)			
Steepest	Parabolic	4	3	#15	8621	0:01:06	20.532	(5.47, -10.26, -2.50, -9.74)			
Steepest	Shekel	4	0	#1	51438	0:00:16	18.217	(5.93, -6.92, -2.01, 4.01)	18.094	0.140	25.150
Steepest	Shekel	4	0	#2	51152	0:00:17	18.138	(5.89, -6.85, -2.02, 3.89)			
Steepest	Shekel	4	0	#3	51111	0:00:16	18.175	(6.08, -7.04, -2.05, 4.07)			
Steepest	Shekel	4	0	#4	51456	0:00:17	18.151	(5.91, -6.90, -1.99, 3.85)			
Steepest	Shekel	4	0	#5	51556	0:00:16	17.941	(5.85, -6.90, -1.81, 3.77)			
Steepest	Shekel	4	0	#6	50987	0:00:16	18.183	(6.08, -6.88, -2.03, 3.99)			
Steepest	Shekel	4	0	#7	51104	0:00:17	18.084	(5.96, -6.96, -1.81, 3.86)			
Steepest	Shekel	4	0	#8	51689	0:00:16	17.773	(6.04, -6.68, -2.21, 3.80)			
Steepest	Shekel	4	0	#9	51071	0:00:16	18.207	(5.94, -6.91, -2.02, 3.93)			
Steepest	Shekel	4	0	#10	51141	0:00:16	18.155	(5.91, -6.85, -2.02, 3.91)			
Steepest	Shekel	4	0	#11	51604	0:00:17	18.167	(5.90, -6.91, -1.98, 3.88)			
Steepest	Shekel	4	0	#12	51170	0:00:16	17.835	(6.13, -7.00, -1.65, 3.96)			
Steepest	Shekel	4	0	#13	51490	0:00:17	18.143	(5.88, -6.95, -1.93, 3.86)			
Steepest	Shekel	4	0	#14	51903	0:00:16	18.024	(5.90, -6.75, -1.97, 3.86)			
Steepest	Shekel	4	0	#15	51310	0:00:17	18.223	(6.01, -7.00, -2.02, 4.04)			
Steepest	Shekel	4	1	#1	8589	0:01:08	17.8	(6.14, -7.15, -2.07, 4.51)	13.213	2.565	21.960
Steepest	Shekel	4	1	#2	8660	0:01:08	14.383	(4.76, -6.88, -1.93, 4.16)			
Steepest	Shekel	4	1	#3	8506	0:01:08	10.049	(2.15, 5.95, -2.27, 0.33)			
Steepest	Shekel	4	1	#4	8589	0:01:08	14.469	(6.18, -8.02, -1.47, 4.65)			
Steepest	Shekel	4	1	#5	8595	0:01:08	14.855	(6.32, -7.37, -1.94, 5.07)			
Steepest	Shekel	4	1	#6	8615	0:01:08	11.073	(4.65, 5.25, -1.89, 0.52)			
Steepest	Shekel	4	1	#7	8529	0:01:07	11.833	(5.75, -7.16, -2.62, 2.46)			
Steepest	Shekel	4	1	#8	8632	0:01:08	9.881	(2.57, 4.48, -1.58, 2.91)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Shekel	4	1	#9	8602	0:01:08	14.252	(6.11, -5.33, -2.82, 4.23)			
Steepest	Shekel	4	1	#10	8529	0:01:08	15.778	(5.77, -7.25, -0.97, 3.56)			
Steepest	Shekel	4	1	#11	8485	0:01:08	14.719	(5.81, -7.32, -1.50, 3.03)			
Steepest	Shekel	4	1	#12	8681	0:01:08	13.458	(5.47, -8.79, -2.25, 3.63)			
Steepest	Shekel	4	1	#13	8566	0:01:08	9.643	(2.15, 6.59, -3.73, 2.80)			
Steepest	Shekel	4	1	#14	8643	0:01:07	10.266	(2.38, 6.52, -0.47, 0.77)			
Steepest	Shekel	4	1	#15	8539	0:01:08	15.741	(6.56, -7.14, -1.39, 3.51)			
Steepest	Shekel	4	2	#1	8620	0:01:08	10.053	(3.63, -5.51, 0.63, 3.58)	13.366	2.611	22.155
Steepest	Shekel	4	2	#2	8675	0:01:08	18.606	(5.72, -6.33, -3.24, 4.14)			
Steepest	Shekel	4	2	#3	8572	0:01:08	11.886	(7.86, -6.45, -1.09, 4.81)			
Steepest	Shekel	4	2	#4	8554	0:01:08	14.744	(4.47, 5.47, -3.07, 1.99)			
Steepest	Shekel	4	2	#5	8629	0:01:08	11.617	(6.03, -5.19, -2.90, 2.56)			
Steepest	Shekel	4	2	#6	8654	0:01:08	17.776	(5.80, -6.59, -1.60, 3.10)			
Steepest	Shekel	4	2	#7	8648	0:01:08	17.033	(5.68, -7.97, -1.83, 4.29)			
Steepest	Shekel	4	2	#8	8556	0:01:08	12.611	(-0.10, 3.88, -1.17, 1.58)			
Steepest	Shekel	4	2	#9	8528	0:01:08	13.137	(5.41, -9.59, -0.81, 2.76)			
Steepest	Shekel	4	2	#10	8515	0:01:07	12.26	(7.36, -7.48, 0.05, 4.46)			
Steepest	Shekel	4	2	#11	8532	0:01:08	13.227	(1.25, 6.18, -0.54, 2.95)			
Steepest	Shekel	4	2	#12	8643	0:01:08	10.566	(4.31, -8.59, -0.79, 5.60)			
Steepest	Shekel	4	2	#13	8595	0:01:08	11.996	(-9.23, 2.06, 3.50, 0.82)			
Steepest	Shekel	4	2	#14	8538	0:01:08	11.107	(2.68, 4.60, -1.11, 0.26)			
Steepest	Shekel	4	2	#15	8535	0:01:08	13.866	(5.21, -7.16, -3.68, 4.28)			
Steepest	Shekel	4	3	#1	8538	0:01:08	12.778	(-10.83, 4.84, 3.88, 4.83)	14.125	1.025	22.952
Steepest	Shekel	4	3	#2	8617	0:01:08	13.09	(5.45, 5.41, -3.38, -0.95)			
Steepest	Shekel	4	3	#3	8585	0:01:08	15.483	(8.25, -6.80, -2.48, 2.52)			
Steepest	Shekel	4	3	#4	8633	0:01:08	13.949	(4.99, -8.65, -3.19, 4.73)			
Steepest	Shekel	4	3	#5	8586	0:01:08	14.417	(7.69, -5.53, 1.77, 4.49)			
Steepest	Shekel	4	3	#6	8570	0:01:08	13.364	(4.54, -2.73, -1.44, 1.54)			
Steepest	Shekel	4	3	#7	8549	0:01:07	14.165	(7.26, -6.20, -0.73, 5.39)			
Steepest	Shekel	4	3	#8	8562	0:01:08	14.352	(6.06, -9.13, -0.17, 3.80)			
Steepest	Shekel	4	3	#9	8588	0:01:08	12.499	(3.55, -17.41, -4.66, 14.42)			
Steepest	Shekel	4	3	#10	8489	0:01:08	13.112	(10.66, -9.79, -3.74, 6.25)			
Steepest	Shekel	4	3	#11	8586	0:01:08	14.613	(5.65, -4.23, -0.21, 2.06)			
Steepest	Shekel	4	3	#12	8598	0:01:08	15.173	(2.08, 3.54, -3.62, 2.63)			
Steepest	Shekel	4	3	#13	8562	0:01:08	13.909	(1.23, -9.90, -0.13, -1.94)			
Steepest	Shekel	4	3	#14	8482	0:01:08	15.009	(-3.64, -4.18, -14.78, -2.56)			
Steepest	Shekel	4	3	#15	8578	0:01:07	15.968	(0.51, 0.96, -0.01, -0.77)			
Steepest	Rastrigin	4	0	#1	19277	0:00:08	116.653	(-0.05, 1.81, 0.04, -3.90)	120.426	6.355	41.582
Steepest	Rastrigin	4	0	#2	19493	0:00:09	121.725	(-2.12, 2.09, -0.14, 2.09)			
Steepest	Rastrigin	4	0	#3	19192	0:00:08	128.807	(-2.16, -1.98, -0.02, 0.02)			
Steepest	Rastrigin	4	0	#4	19259	0:00:09	114.267	(-4.10, 1.97, -1.99, 0.01)			
Steepest	Rastrigin	4	0	#5	19539	0:00:08	123.698	(1.96, -2.03, -2.02, 1.98)			
Steepest	Rastrigin	4	0	#6	19337	0:00:09	119.778	(1.94, 0.01, 3.93, 0.04)			
Steepest	Rastrigin	4	0	#7	19347	0:00:08	119.607	(1.94, 0.02, 3.90, -0.01)			
Steepest	Rastrigin	4	0	#8	19235	0:00:08	112.013	(-0.09, 2.05, -3.81, 1.89)			
Steepest	Rastrigin	4	0	#9	19187	0:00:09	131.747	(0.02, 1.95, 1.96, -0.04)			
Steepest	Rastrigin	4	0	#10	19372	0:00:08	108.626	(1.87, 1.83, -3.93, -2.01)			
Steepest	Rastrigin	4	0	#11	19424	0:00:09	121.618	(-2.00, 1.87, 0.23, 2.02)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rastrigin	4	0	#12	19272	0:00:08	127.454	(-0.02, -2.05, -1.95, -1.95)			
Steepest	Rastrigin	4	0	#13	19421	0:00:09	122.859	(1.96, 0.02, -2.21, 2.01)			
Steepest	Rastrigin	4	0	#14	19207	0:00:08	114.953	(-1.97, 3.87, -0.04, -1.92)			
Steepest	Rastrigin	4	0	#15	19021	0:00:09	122.587	(-2.08, 2.00, 1.91, 1.99)			
Steepest	Rastrigin	4	1	#1	19257	0:01:10	119.616	(2.29, 2.01, -0.09, -1.97)	115.174	9.081	41.148
Steepest	Rastrigin	4	1	#2	19017	0:01:09	117.644	(0.32, 0.16, 2.03, 2.12)			
Steepest	Rastrigin	4	1	#3	19028	0:01:09	122.625	(-0.02, 3.90, 0.06, -0.14)			
Steepest	Rastrigin	4	1	#4	19288	0:01:10	110.298	(-0.33, 0.05, -3.81, 0.10)			
Steepest	Rastrigin	4	1	#5	19236	0:01:10	105.202	(-1.99, -3.96, 0.28, -1.77)			
Steepest	Rastrigin	4	1	#6	19048	0:01:09	122.513	(-1.82, -0.01, 0.35, -0.08)			
Steepest	Rastrigin	4	1	#7	19403	0:01:10	110.862	(1.82, 0.04, 2.14, -3.87)			
Steepest	Rastrigin	4	1	#8	19279	0:01:10	124.495	(-0.10, -2.06, 2.25, -0.03)			
Steepest	Rastrigin	4	1	#9	19292	0:01:09	123.615	(1.93, 1.79, 2.10, 0.06)			
Steepest	Rastrigin	4	1	#10	19092	0:01:10	101.684	(1.93, -1.84, -3.86, 0.35)			
Steepest	Rastrigin	4	1	#11	19248	0:01:09	97.559	(-0.10, 6.02, 0.09, -1.97)			
Steepest	Rastrigin	4	1	#12	19219	0:01:10	119.227	(1.93, -1.78, 0.23, 1.97)			
Steepest	Rastrigin	4	1	#13	19302	0:01:09	113.635	(3.90, -2.02, -0.18, -1.98)			
Steepest	Rastrigin	4	1	#14	19183	0:01:10	109.986	(0.04, 2.15, -2.16, -3.95)			
Steepest	Rastrigin	4	1	#15	19272	0:01:09	128.644	(0.14, 0.03, -2.06, 1.89)			
Steepest	Rastrigin	4	2	#1	19131	0:01:09	115.449	(-0.11, -0.28, -1.73, 1.99)	118.197	8.811	41.394
Steepest	Rastrigin	4	2	#2	19137	0:01:10	112.188	(-1.95, -1.97, 1.86, 3.97)			
Steepest	Rastrigin	4	2	#3	19150	0:01:09	115.91	(-2.03, 2.18, 1.74, -2.07)			
Steepest	Rastrigin	4	2	#4	19500	0:01:10	119.285	(1.91, 0.30, -2.03, 1.84)			
Steepest	Rastrigin	4	2	#5	19226	0:01:10	100.963	(-0.05, -0.34, 3.68, -1.92)			
Steepest	Rastrigin	4	2	#6	19126	0:01:09	113.81	(0.04, -1.98, 3.94, 2.07)			
Steepest	Rastrigin	4	2	#7	19150	0:01:10	116.217	(1.84, 3.77, 0.03, -0.12)			
Steepest	Rastrigin	4	2	#8	19276	0:01:09	127.605	(1.96, 0.17, -1.94, 0.00)			
Steepest	Rastrigin	4	2	#9	19239	0:01:10	117.363	(-0.04, 1.94, -2.01, 3.98)			
Steepest	Rastrigin	4	2	#10	19073	0:01:09	132.258	(-0.11, 1.92, 0.00, -1.91)			
Steepest	Rastrigin	4	2	#11	19212	0:01:10	124.772	(0.14, -2.01, 1.81, -0.20)			
Steepest	Rastrigin	4	2	#12	19196	0:01:09	112.602	(-2.28, 1.99, -1.97, -0.23)			
Steepest	Rastrigin	4	2	#13	19161	0:01:10	109.561	(1.98, 3.64, -1.94, 0.04)			
Steepest	Rastrigin	4	2	#14	19310	0:01:09	120.141	(-2.14, -2.09, -1.88, 2.13)			
Steepest	Rastrigin	4	2	#15	19374	0:01:10	134.833	(-0.01, 0.04, 1.84, 0.02)			
Steepest	Rastrigin	4	3	#1	19002	0:01:09	112.003	(-1.99, -1.71, 4.02, -1.94)	118.187	7.271	41.414
Steepest	Rastrigin	4	3	#2	19181	0:01:10	125.72	(-0.18, -0.06, -2.16, 0.09)			
Steepest	Rastrigin	4	3	#3	19332	0:01:09	102.185	(2.01, 2.24, 0.26, -4.04)			
Steepest	Rastrigin	4	3	#4	19140	0:01:10	119.588	(0.05, 0.03, 4.01, -2.06)			
Steepest	Rastrigin	4	3	#5	19193	0:01:09	116.92	(-0.34, 0.03, -3.97, -0.20)			
Steepest	Rastrigin	4	3	#6	19447	0:01:10	125.713	(-0.05, -1.95, 0.37, 0.07)			
Steepest	Rastrigin	4	3	#7	18974	0:01:10	111.014	(2.12, 1.86, 1.90, -3.88)			
Steepest	Rastrigin	4	3	#8	18960	0:01:09	113.128	(3.94, -2.05, 1.97, -2.14)			
Steepest	Rastrigin	4	3	#9	19238	0:01:10	112	(-1.92, -1.98, 4.12, -0.10)			
Steepest	Rastrigin	4	3	#10	19314	0:01:09	115.481	(0.01, 1.92, -2.09, 3.90)			
Steepest	Rastrigin	4	3	#11	19050	0:01:10	118.329	(-0.17, -1.98, 3.93, 0.25)			
Steepest	Rastrigin	4	3	#12	19306	0:01:09	124.417	(-0.18, -0.05, -4.00, -0.05)			
Steepest	Rastrigin	4	3	#13	19179	0:01:10	127.15	(0.17, 1.97, -2.12, -0.01)			
Steepest	Rastrigin	4	3	#14	19148	0:01:09	126.198	(-0.09, 0.16, 1.91, -1.84)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rastrigin	4	3	#15	19372	0:01:10	122.962	(-0.14, -1.86, 2.00, 2.04)			
Steepest	Rosenbrock	4	0	#1	41814	0:00:11	79.983	(0.81, 0.48, 0.07, -0.36)	79.980	0.009	38.060
Steepest	Rosenbrock	4	0	#2	42041	0:00:11	79.977	(-0.09, -0.76, 0.17, -0.76)			
Steepest	Rosenbrock	4	0	#3	41745	0:00:11	79.982	(0.17, -1.41, -0.03, 0.24)			
Steepest	Rosenbrock	4	0	#4	41864	0:00:11	79.959	(-0.88, -1.33, -0.30, 0.81)			
Steepest	Rosenbrock	4	0	#5	40837	0:00:11	79.965	(-0.91, -1.71, -0.16, 0.48)			
Steepest	Rosenbrock	4	0	#6	41846	0:00:11	79.983	(-0.10, 1.03, 0.28, 0.02)			
Steepest	Rosenbrock	4	0	#7	41371	0:00:11	79.979	(-0.55, 0.03, -0.23, -0.66)			
Steepest	Rosenbrock	4	0	#8	41300	0:00:11	79.985	(0.19, -1.21, 0.14, -0.14)			
Steepest	Rosenbrock	4	0	#9	41623	0:00:11	79.98	(0.49, 0.15, 0.39, -0.13)			
Steepest	Rosenbrock	4	0	#10	41549	0:00:10	79.988	(0.04, 0.00, 0.09, -0.67)			
Steepest	Rosenbrock	4	0	#11	41686	0:00:11	79.985	(0.02, -0.85, -0.28, -0.15)			
Steepest	Rosenbrock	4	0	#12	41221	0:00:11	79.99	(-0.18, -0.99, 0.05, -0.22)			
Steepest	Rosenbrock	4	0	#13	41705	0:00:11	79.989	(-0.11, -0.60, 0.09, 0.52)			
Steepest	Rosenbrock	4	0	#14	41428	0:00:11	79.971	(0.03, -0.99, 0.11, -0.88)			
Steepest	Rosenbrock	4	0	#15	41142	0:00:11	79.978	(-0.26, -1.39, -0.12, 0.40)			
Steepest	Rosenbrock	4	1	#1	27085	0:01:15	81.857	(1.59, -8.40, 1.22, 5.56)	82.182	0.388	38.295
Steepest	Rosenbrock	4	1	#2	26910	0:01:15	82.589	(-2.46, -2.99, 0.85, -0.16)			
Steepest	Rosenbrock	4	1	#3	27163	0:01:15	82.624	(-2.01, 7.13, -0.84, 3.87)			
Steepest	Rosenbrock	4	1	#4	26599	0:01:14	81.773	(-2.78, -3.65, 0.48, 0.88)			
Steepest	Rosenbrock	4	1	#5	27903	0:01:16	82.438	(-2.12, -1.00, 0.38, -0.49)			
Steepest	Rosenbrock	4	1	#6	26594	0:01:15	82.387	(-3.39, 4.89, -0.36, 3.09)			
Steepest	Rosenbrock	4	1	#7	27054	0:01:15	82.489	(1.75, -7.15, 0.64, -1.20)			
Steepest	Rosenbrock	4	1	#8	26818	0:01:14	81.816	(0.79, -3.37, -0.88, -2.77)			
Steepest	Rosenbrock	4	1	#9	26435	0:01:15	82.415	(-1.18, -0.30, 1.02, -1.31)			
Steepest	Rosenbrock	4	1	#10	26875	0:01:15	81.905	(1.13, -2.56, 0.07, 1.48)			
Steepest	Rosenbrock	4	1	#11	26972	0:01:15	82.063	(-3.27, -5.57, -2.24, -1.31)			
Steepest	Rosenbrock	4	1	#12	27160	0:01:15	81.687	(-3.02, 6.20, 0.54, 2.28)			
Steepest	Rosenbrock	4	1	#13	26851	0:01:15	81.909	(-3.87, 1.64, 0.86, 0.51)			
Steepest	Rosenbrock	4	1	#14	26562	0:01:14	82.928	(0.93, 4.85, 0.25, 0.09)			
Steepest	Rosenbrock	4	1	#15	26779	0:01:15	81.848	(4.13, -3.18, -2.72, -0.67)			
Steepest	Rosenbrock	4	2	#1	22274	0:01:12	83.892	(-4.56, 5.79, -1.89, 4.85)	84.645	0.844	38.551
Steepest	Rosenbrock	4	2	#2	21241	0:01:11	86.123	(-2.27, 3.68, -0.93, -5.97)			
Steepest	Rosenbrock	4	2	#3	21272	0:01:12	83.694	(3.60, -4.66, -2.67, 4.23)			
Steepest	Rosenbrock	4	2	#4	21243	0:01:11	85.064	(2.13, -5.91, -0.02, -5.68)			
Steepest	Rosenbrock	4	2	#5	21536	0:01:11	84.006	(0.10, -8.50, 1.65, 0.25)			
Steepest	Rosenbrock	4	2	#6	21247	0:01:12	84.754	(2.97, -8.89, -0.61, 3.89)			
Steepest	Rosenbrock	4	2	#7	22127	0:01:11	85.183	(-1.39, -10.08, -1.71, 4.51)			
Steepest	Rosenbrock	4	2	#8	21588	0:01:12	85.027	(-0.89, -1.37, 1.49, 6.15)			
Steepest	Rosenbrock	4	2	#9	21033	0:01:11	84.94	(-6.49, -3.46, -1.24, 0.03)			
Steepest	Rosenbrock	4	2	#10	21733	0:01:12	84.746	(-1.62, -7.50, -1.54, -6.84)			
Steepest	Rosenbrock	4	2	#11	21050	0:01:11	83.278	(3.65, -0.87, -0.44, 5.91)			
Steepest	Rosenbrock	4	2	#12	22106	0:01:11	84.381	(-2.91, -3.89, 0.10, 9.19)			
Steepest	Rosenbrock	4	2	#13	21244	0:01:12	84.304	(2.22, -14.10, -0.08, 0.17)			
Steepest	Rosenbrock	4	2	#14	21355	0:01:11	86.287	(-2.65, -3.40, -2.19, 1.57)			
Steepest	Rosenbrock	4	2	#15	21878	0:01:12	83.99	(-3.06, 0.59, 1.34, 3.87)			
Steepest	Rosenbrock	4	3	#1	18819	0:01:10	86.897	(0.10, 7.52, -0.74, -0.47)	87.441	1.389	38.831
Steepest	Rosenbrock	4	3	#2	18792	0:01:09	88.286	(4.17, -6.72, 1.37, 8.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rosenbrock	4	3	#3	18410	0:01:10	88.518	(-3.14, 6.52, -1.17, -3.91)			
Steepest	Rosenbrock	4	3	#4	18562	0:01:10	87.209	(-1.54, 2.27, -1.99, -3.20)			
Steepest	Rosenbrock	4	3	#5	18295	0:01:09	87.747	(-5.81, -17.42, -1.32, 0.55)			
Steepest	Rosenbrock	4	3	#6	18498	0:01:09	89.25	(1.61, 9.01, -0.40, -1.61)			
Steepest	Rosenbrock	4	3	#7	18568	0:01:10	85.417	(-7.73, -7.96, -4.79, 4.75)			
Steepest	Rosenbrock	4	3	#8	18288	0:01:09	85.474	(-0.50, 6.08, 1.42, -3.32)			
Steepest	Rosenbrock	4	3	#9	18778	0:01:10	86.276	(7.81, -13.25, -1.21, 6.95)			
Steepest	Rosenbrock	4	3	#10	18823	0:01:10	88.918	(-1.21, -2.69, 2.28, 3.29)			
Steepest	Rosenbrock	4	3	#11	18336	0:01:09	87.984	(9.77, -15.58, -5.83, 13.34)			
Steepest	Rosenbrock	4	3	#12	18129	0:01:09	89.675	(-5.57, -15.37, 0.76, 3.44)			
Steepest	Rosenbrock	4	3	#13	18448	0:01:10	87.778	(-6.48, -2.96, -2.58, -0.11)			
Steepest	Rosenbrock	4	3	#14	18454	0:01:09	86.76	(-6.89, -8.99, -1.61, 15.11)			
Steepest	Rosenbrock	4	3	#15	18581	0:01:10	85.429	(6.64, 6.53, -0.21, 3.79)			
Steepest	Styblinski	4	0	#1	42709	0:00:10	386.561	(-2.33, -2.99, -3.07, 1.79)	387.683	3.847	51.768
Steepest	Styblinski	4	0	#2	41647	0:00:10	388.946	(-2.93, -2.82, -2.42, 0.85)			
Steepest	Styblinski	4	0	#3	43336	0:00:10	387.79	(-2.96, -2.65, -2.62, -0.54)			
Steepest	Styblinski	4	0	#4	42159	0:00:10	384.445	(-2.77, -2.95, -2.68, -1.63)			
Steepest	Styblinski	4	0	#5	42491	0:00:10	386.919	(-2.86, -2.72, -2.64, 2.98)			
Steepest	Styblinski	4	0	#6	42339	0:00:10	390.048	(-2.70, -2.61, -2.98, 0.44)			
Steepest	Styblinski	4	0	#7	42662	0:00:10	379.224	(-3.57, -2.77, -2.68, -0.60)			
Steepest	Styblinski	4	0	#8	42779	0:00:10	390.788	(-2.63, -2.80, -2.98, 0.47)			
Steepest	Styblinski	4	0	#9	41705	0:00:10	391.397	(-2.95, -2.80, -2.90, 1.93)			
Steepest	Styblinski	4	0	#10	42008	0:00:10	389.671	(-2.62, -2.81, -2.74, 0.01)			
Steepest	Styblinski	4	0	#11	42595	0:00:09	391.767	(-3.04, -2.92, -2.77, 0.66)			
Steepest	Styblinski	4	0	#12	42233	0:00:09	389.675	(-2.48, -2.87, -2.90, 0.64)			
Steepest	Styblinski	4	0	#13	42702	0:00:10	390.036	(-2.76, -2.91, -2.91, -0.45)			
Steepest	Styblinski	4	0	#14	41948	0:00:10	379.792	(-2.51, -3.41, -2.36, 0.05)			
Steepest	Styblinski	4	0	#15	41877	0:00:10	388.183	(-2.58, -2.77, -3.05, 2.43)			
Steepest	Styblinski	4	1	#1	43176	0:01:26	386.151	(-2.81, -2.44, -3.23, 1.91)	387.378	4.661	51.761
Steepest	Styblinski	4	1	#2	42832	0:01:26	392.137	(-3.02, -2.72, -2.84, 0.15)			
Steepest	Styblinski	4	1	#3	42201	0:01:25	390.173	(-3.25, -2.93, -2.73, 0.96)			
Steepest	Styblinski	4	1	#4	42770	0:01:26	390.299	(-2.93, -3.26, -2.96, 0.35)			
Steepest	Styblinski	4	1	#5	42066	0:01:25	391.493	(-2.72, -2.61, -2.69, 0.52)			
Steepest	Styblinski	4	1	#6	42825	0:01:25	384.886	(-3.18, -2.58, -2.76, 3.12)			
Steepest	Styblinski	4	1	#7	42705	0:01:26	391.746	(-2.96, -3.01, -2.87, 1.46)			
Steepest	Styblinski	4	1	#8	42891	0:01:26	390.699	(-2.89, -3.11, -2.66, -0.09)			
Steepest	Styblinski	4	1	#9	42478	0:01:25	379.315	(-3.05, -3.23, -2.36, 3.84)			
Steepest	Styblinski	4	1	#10	42367	0:01:25	381.514	(-3.29, -2.60, -3.45, 2.04)			
Steepest	Styblinski	4	1	#11	42186	0:01:26	377.397	(-2.87, -3.48, -2.08, 1.27)			
Steepest	Styblinski	4	1	#12	42759	0:01:25	389.635	(-3.26, -2.75, -2.83, 1.12)			
Steepest	Styblinski	4	1	#13	42365	0:01:26	389.808	(-2.60, -2.77, -2.97, 1.82)			
Steepest	Styblinski	4	1	#14	42927	0:01:25	387.993	(-3.25, -2.82, -3.14, 0.05)			
Steepest	Styblinski	4	1	#15	42508	0:01:25	387.42	(-3.13, -2.84, -3.11, -0.54)			
Steepest	Styblinski	4	2	#1	43083	0:01:26	387.459	(-2.95, -3.13, -2.75, 3.30)	388.269	3.049	51.782
Steepest	Styblinski	4	2	#2	42345	0:01:25	387.705	(-3.15, -2.84, -2.45, 1.12)			
Steepest	Styblinski	4	2	#3	42280	0:01:25	382.127	(-3.25, -2.39, -3.12, -0.58)			
Steepest	Styblinski	4	2	#4	42136	0:01:25	387.375	(-3.12, -2.76, -3.33, 0.78)			
Steepest	Styblinski	4	2	#5	41674	0:01:25	387.122	(-3.15, -2.99, -3.06, -0.62)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Styblinski	4	2	#6	42427	0:01:25	389.926	(-2.92, -3.06, -2.85, 1.52)			
Steepest	Styblinski	4	2	#7	41619	0:01:25	393.352	(-3.04, -2.95, -3.03, 0.33)			
Steepest	Styblinski	4	2	#8	42199	0:01:25	389.567	(-2.75, -2.60, -2.83, -0.08)			
Steepest	Styblinski	4	2	#9	42175	0:01:25	389.666	(-3.04, -2.62, -3.06, 1.28)			
Steepest	Styblinski	4	2	#10	42800	0:01:26	392.278	(-2.65, -2.81, -3.16, 2.27)			
Steepest	Styblinski	4	2	#11	42855	0:01:26	392.033	(-3.08, -2.66, -3.12, 0.39)			
Steepest	Styblinski	4	2	#12	43078	0:01:25	384.666	(-2.73, -2.85, -3.28, -1.28)			
Steepest	Styblinski	4	2	#13	42205	0:01:25	385.024	(-2.81, -3.21, -3.10, 3.57)			
Steepest	Styblinski	4	2	#14	42357	0:01:26	389.092	(-2.69, -3.04, -2.40, 0.86)			
Steepest	Styblinski	4	2	#15	42345	0:01:25	386.639	(-3.17, -3.14, -3.25, -0.47)			
Steepest	Styblinski	4	3	#1	42533	0:01:26	389.055	(-2.38, -3.09, -2.76, -0.01)	384.470	4.793	51.695
Steepest	Styblinski	4	3	#2	43405	0:01:26	386.327	(-3.32, -3.15, -2.69, -0.27)			
Steepest	Styblinski	4	3	#3	42286	0:01:25	389.309	(-3.07, -2.95, -3.02, 1.14)			
Steepest	Styblinski	4	3	#4	42949	0:01:26	381.767	(-3.27, -2.84, 2.84, 0.85)			
Steepest	Styblinski	4	3	#5	43505	0:01:26	378.618	(2.95, -2.93, -2.80, 2.57)			
Steepest	Styblinski	4	3	#6	42633	0:01:25	377.819	(2.61, -2.91, -3.11, 0.10)			
Steepest	Styblinski	4	3	#7	42308	0:01:25	379.329	(-3.17, -3.51, -3.09, -0.04)			
Steepest	Styblinski	4	3	#8	42048	0:01:25	388.523	(-3.35, -2.95, -3.23, 1.07)			
Steepest	Styblinski	4	3	#9	42022	0:01:25	385.161	(-2.92, -2.88, -3.32, 3.91)			
Steepest	Styblinski	4	3	#10	42331	0:01:25	382.914	(-2.10, -2.57, -2.83, 0.47)			
Steepest	Styblinski	4	3	#11	42609	0:01:26	392.329	(-2.71, -2.80, -3.12, 1.17)			
Steepest	Styblinski	4	3	#12	42041	0:01:25	389.46	(-3.08, -2.27, -2.89, 0.11)			
Steepest	Styblinski	4	3	#13	42805	0:01:25	387.261	(-3.10, -2.72, -2.99, -0.15)			
Steepest	Styblinski	4	3	#14	42135	0:01:26	379.75	(-2.76, -2.06, -3.37, 1.34)			
Steepest	Styblinski	4	3	#15	42161	0:01:25	379.426	(-2.66, -2.56, 3.16, 1.16)			
Steepest	Parabolic	5	0	#1	61546	0:00:21	12	(0.00, 0.00, 0.00, 0.00, 0.00)	12.000	0.000	21.584
Steepest	Parabolic	5	0	#2	61546	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#3	61476	0:00:21	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#4	61805	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#5	61478	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#6	61503	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#7	61532	0:00:21	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#8	61741	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#9	61597	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#10	61753	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#11	61562	0:00:21	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#12	61379	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#13	61503	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#14	61866	0:00:22	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	0	#15	61745	0:00:21	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
Steepest	Parabolic	5	1	#1	8769	0:02:25	13.642	(-4.58, 1.63, 4.17, 0.58, -3.23)	13.937	0.455	22.872
Steepest	Parabolic	5	1	#2	8715	0:02:24	13.629	(-2.11, 0.89, -1.05, 1.11, -6.95)			
Steepest	Parabolic	5	1	#3	8631	0:02:25	13.344	(-8.16, 0.81, 1.80, -0.60, 5.14)			
Steepest	Parabolic	5	1	#4	8786	0:02:24	14.374	(7.01, 4.17, 1.82, -0.35, 1.39)			
Steepest	Parabolic	5	1	#5	8824	0:02:25	14.94	(-3.78, -2.24, -3.82, 1.50, -2.28)			
Steepest	Parabolic	5	1	#6	8756	0:02:24	14.105	(-4.17, 6.03, -7.19, 7.14, -1.31)			
Steepest	Parabolic	5	1	#7	8768	0:02:25	14.619	(-9.07, -5.32, -1.18, -2.32, -5.23)			
Steepest	Parabolic	5	1	#8	8823	0:02:24	13.608	(3.69, 3.50, 1.10, -5.14, 2.03)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Parabolic	5	1	#9	8654	0:02:25	13.806	(3.26, -6.87, -2.87, 1.81, 5.27)			
Steepest	Parabolic	5	1	#10	8828	0:02:32	14.077	(-3.22, 0.25, 6.12, -5.66, 0.45)			
Steepest	Parabolic	5	1	#11	8740	0:02:25	13.698	(-4.66, -0.83, -2.21, 8.99, 0.61)			
Steepest	Parabolic	5	1	#12	8742	0:02:24	14.314	(7.37, -0.40, -3.63, 3.15, -0.92)			
Steepest	Parabolic	5	1	#13	8854	0:02:24	13.449	(-3.68, -1.37, -5.10, 1.43, 1.97)			
Steepest	Parabolic	5	1	#14	8794	0:02:25	13.752	(-3.53, -0.92, 0.11, -2.06, -0.85)			
Steepest	Parabolic	5	1	#15	8652	0:02:24	13.705	(-3.58, -5.53, 0.06, 3.77, 0.41)			
Steepest	Parabolic	5	2	#1	8577	0:02:25	17.164	(-7.00, 0.50, -1.52, -9.74, -4.35)	16.699	0.588	24.440
Steepest	Parabolic	5	2	#2	8545	0:02:24	16.522	(-3.02, 6.03, -1.19, 8.16, -5.52)			
Steepest	Parabolic	5	2	#3	8611	0:02:25	17.111	(-9.83, -6.31, -1.38, 4.96, 1.03)			
Steepest	Parabolic	5	2	#4	8515	0:02:24	16.426	(4.25, -10.18, 0.66, -7.00, -1.11)			
Steepest	Parabolic	5	2	#5	8709	0:02:24	16.637	(7.03, 2.05, -5.04, 0.70, -2.58)			
Steepest	Parabolic	5	2	#6	8624	0:02:25	16.856	(2.37, 0.95, 2.91, -1.13, 2.34)			
Steepest	Parabolic	5	2	#7	8607	0:02:24	15.921	(-3.36, 0.49, -6.57, -2.60, 2.05)			
Steepest	Parabolic	5	2	#8	8589	0:02:24	16.655	(9.43, -9.18, -5.30, -2.23, 12.63)			
Steepest	Parabolic	5	2	#9	8718	0:02:25	16.409	(11.29, -5.57, -7.92, -4.57, 3.98)			
Steepest	Parabolic	5	2	#10	8538	0:02:24	16.069	(-9.92, 1.44, 1.32, -11.00, -0.33)			
Steepest	Parabolic	5	2	#11	8599	0:02:24	15.508	(0.09, 4.07, 1.77, -8.16, 8.29)			
Steepest	Parabolic	5	2	#12	8579	0:02:25	17.098	(-2.41, 10.54, -6.31, -4.28, 2.71)			
Steepest	Parabolic	5	2	#13	8559	0:02:24	16.926	(-6.57, -3.09, -2.01, -2.32, -2.71)			
Steepest	Parabolic	5	2	#14	8647	0:02:25	17.529	(-4.51, 1.71, -5.64, 2.66, 5.78)			
Steepest	Parabolic	5	2	#15	8575	0:02:24	17.658	(-1.01, -2.45, 4.23, -1.78, -0.44)			
Steepest	Parabolic	5	3	#1	8641	0:02:25	19.46	(-3.01, -2.93, -0.06, -0.49, 3.72)	20.034	1.068	26.003
Steepest	Parabolic	5	3	#2	8598	0:02:24	18.052	(11.28, -3.53, -9.22, -4.92, -11.51)			
Steepest	Parabolic	5	3	#3	8480	0:02:25	20.347	(-9.54, 1.63, 1.34, 0.06, -2.12)			
Steepest	Parabolic	5	3	#4	8573	0:02:24	21.245	(8.07, -1.45, 6.32, 2.88, 1.15)			
Steepest	Parabolic	5	3	#5	8573	0:02:24	20.517	(-9.07, 5.62, 1.79, 0.34, 0.57)			
Steepest	Parabolic	5	3	#6	8555	0:02:25	19.973	(-5.23, 7.37, -6.86, 2.56, 1.63)			
Steepest	Parabolic	5	3	#7	8627	0:02:24	19.984	(-6.96, 0.79, 0.68, -0.95, 7.31)			
Steepest	Parabolic	5	3	#8	8678	0:02:24	19.501	(0.01, -0.29, 4.97, 3.48, 2.95)			
Steepest	Parabolic	5	3	#9	8525	0:02:25	21.708	(2.61, -2.42, -9.09, 1.59, 14.76)			
Steepest	Parabolic	5	3	#10	8457	0:02:24	21.314	(-2.70, -0.87, 0.48, 6.01, 8.12)			
Steepest	Parabolic	5	3	#11	8621	0:02:24	19.605	(-0.92, -7.58, 3.28, -3.34, -13.98)			
Steepest	Parabolic	5	3	#12	8551	0:02:25	19.223	(-4.31, -5.56, 2.61, 1.28, -3.25)			
Steepest	Parabolic	5	3	#13	8538	0:02:24	21.423	(-0.20, -2.70, -1.73, 15.49, -8.32)			
Steepest	Parabolic	5	3	#14	8622	0:02:25	18.539	(-1.11, 7.88, 5.74, 4.63, -13.58)			
Steepest	Parabolic	5	3	#15	8578	0:02:24	19.626	(-5.38, 0.84, 8.68, 3.16, -6.77)			
Steepest	Shekel	5	0	#1	58010	0:00:36	17.648	(6.29, -6.73, -2.12, 3.82, 2.05)	17.550	0.494	24.877
Steepest	Shekel	5	0	#2	58515	0:00:34	17.579	(5.87, -7.35, -2.08, 4.06, 1.76)			
Steepest	Shekel	5	0	#3	58112	0:00:36	17.752	(5.75, -6.77, -2.07, 3.79, 2.13)			
Steepest	Shekel	5	0	#4	58224	0:00:34	18.014	(5.86, -6.81, -2.00, 3.86, 2.02)			
Steepest	Shekel	5	0	#5	58188	0:00:35	18.02	(5.84, -6.99, -2.04, 3.94, 2.18)			
Steepest	Shekel	5	0	#6	58382	0:00:35	16.551	(5.85, -7.55, -2.48, 3.75, 1.87)			
Steepest	Shekel	5	0	#7	57987	0:00:35	17.566	(5.79, -6.59, -2.01, 3.80, 2.08)			
Steepest	Shekel	5	0	#8	58289	0:00:35	17.984	(5.83, -6.80, -2.00, 3.86, 2.01)			
Steepest	Shekel	5	0	#9	58111	0:00:35	16.899	(5.35, -6.68, -2.00, 3.88, 2.04)			
Steepest	Shekel	5	0	#10	58548	0:00:35	17.155	(5.91, -7.02, -1.63, 4.14, 1.53)			
Steepest	Shekel	5	0	#11	58597	0:00:35	16.865	(5.90, -6.79, -1.97, 4.16, 2.67)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Shekel	5	0	#12	57807	0:00:35	17.939	(5.86, -6.80, -2.02, 4.02, 1.81)			
Steepest	Shekel	5	0	#13	58188	0:00:35	17.894	(6.12, -6.95, -1.87, 4.05, 1.75)			
Steepest	Shekel	5	0	#14	58401	0:00:35	18.128	(5.95, -6.98, -2.05, 3.97, 2.12)			
Steepest	Shekel	5	0	#15	58277	0:00:35	17.257	(5.69, -6.67, -1.86, 3.69, 2.26)			
Steepest	Shekel	5	1	#1	8670	0:02:35	17.284	(6.39, -7.45, -1.57, 4.29, 2.35)	8.340	2.796	17.703
Steepest	Shekel	5	1	#2	8514	0:02:34	7.8	(6.50, -7.87, -4.34, 6.32, 0.66)			
Steepest	Shekel	5	1	#3	8626	0:02:34	6.649	(-1.04, -1.92, -7.97, -5.99, 3.66)			
Steepest	Shekel	5	1	#4	8545	0:02:34	7.933	(1.25, 7.07, -1.51, 3.81, 5.19)			
Steepest	Shekel	5	1	#5	8659	0:02:35	10.995	(7.11, -6.13, -1.87, 5.84, 2.12)			
Steepest	Shekel	5	1	#6	8660	0:02:34	5.886	(8.48, -10.11, 0.16, 3.31, -0.39)			
Steepest	Shekel	5	1	#7	8559	0:02:34	7.564	(4.85, 7.61, -6.51, 0.85, 1.27)			
Steepest	Shekel	5	1	#8	8673	0:02:34	6.325	(5.72, 5.62, -3.98, 3.36, 6.17)			
Steepest	Shekel	5	1	#9	8603	0:02:35	8.217	(4.01, 5.90, -0.24, 0.38, 2.42)			
Steepest	Shekel	5	1	#10	8456	0:02:34	9.209	(4.35, -6.47, -3.31, 3.56, 3.17)			
Steepest	Shekel	5	1	#11	8552	0:02:42	7.075	(0.55, 7.53, -2.42, 1.95, 3.15)			
Steepest	Shekel	5	1	#12	8568	0:02:34	6.886	(4.84, -4.59, -0.27, 1.49, 1.01)			
Steepest	Shekel	5	1	#13	8632	0:02:35	8.411	(-8.77, -7.40, 0.29, -9.45, -2.59)			
Steepest	Shekel	5	1	#14	8552	0:02:34	6.375	(6.29, 5.01, 1.12, 3.46, 1.90)			
Steepest	Shekel	5	1	#15	8587	0:02:35	8.488	(5.08, 7.35, -2.03, 1.31, 3.17)			
Steepest	Shekel	5	2	#1	8485	0:02:35	9.803	(1.73, -6.48, -4.82, 5.99, 3.42)	9.996	2.341	19.631
Steepest	Shekel	5	2	#2	8574	0:02:34	8.903	(4.58, 6.63, 0.55, 0.43, 3.99)			
Steepest	Shekel	5	2	#3	8625	0:02:35	9.099	(-13.59, 5.11, 7.52, 1.85, 2.41)			
Steepest	Shekel	5	2	#4	8662	0:02:34	17.883	(5.24, -6.26, -1.89, 3.57, 2.27)			
Steepest	Shekel	5	2	#5	8630	0:02:34	9.319	(-5.12, -4.80, -1.65, 4.61, 15.33)			
Steepest	Shekel	5	2	#6	8516	0:02:34	8.92	(5.03, -8.40, 0.46, 5.65, 2.23)			
Steepest	Shekel	5	2	#7	8640	0:02:34	9.175	(1.88, -0.57, 9.31, -0.42, 6.51)			
Steepest	Shekel	5	2	#8	8507	0:02:34	11.968	(3.89, 7.11, -2.23, 3.65, 2.59)			
Steepest	Shekel	5	2	#9	8613	0:02:35	9.318	(-6.54, -0.94, -5.83, 0.53, 6.79)			
Steepest	Shekel	5	2	#10	8504	0:02:34	8.961	(2.98, -1.46, -0.10, -0.13, 4.15)			
Steepest	Shekel	5	2	#11	8581	0:02:34	10.522	(2.79, -4.24, 0.56, -7.46, 4.99)			
Steepest	Shekel	5	2	#12	8478	0:02:35	9.722	(-8.12, 3.60, 4.21, 2.59, 4.37)			
Steepest	Shekel	5	2	#13	8567	0:02:34	8.88	(1.08, -2.42, 3.79, -3.19, -9.91)			
Steepest	Shekel	5	2	#14	8604	0:02:34	8.662	(-4.17, -0.54, -8.96, 6.60, -3.01)			
Steepest	Shekel	5	2	#15	8549	0:02:35	8.804	(5.33, 5.98, -3.52, 5.11, 6.34)			
Steepest	Shekel	5	3	#1	8544	0:02:35	13.69	(-5.29, 1.73, -2.49, -2.85, 4.74)	13.068	0.689	22.295
Steepest	Shekel	5	3	#2	8582	0:02:34	12.815	(-6.62, 0.76, 17.79, -3.31, 7.52)			
Steepest	Shekel	5	3	#3	8466	0:02:34	13.477	(-19.64, -2.56, 12.34, 6.77, -6.36)			
Steepest	Shekel	5	3	#4	8606	0:02:34	12.986	(-14.11, 0.63, -3.84, -5.50, -4.38)			
Steepest	Shekel	5	3	#5	8509	0:02:34	14.272	(-7.73, -9.36, -1.03, -8.60, -0.34)			
Steepest	Shekel	5	3	#6	8570	0:02:35	11.832	(-8.84, 1.02, 2.20, -6.19, 9.50)			
Steepest	Shekel	5	3	#7	8569	0:02:34	13.857	(-14.03, 5.82, -12.03, 4.55, 4.44)			
Steepest	Shekel	5	3	#8	8578	0:02:34	12.057	(-5.35, -2.30, 5.57, -2.74, 13.53)			
Steepest	Shekel	5	3	#9	8550	0:02:35	12.739	(-5.60, 0.53, -2.40, -4.37, 0.95)			
Steepest	Shekel	5	3	#10	8551	0:02:34	13.078	(-9.34, 19.44, 18.25, 7.77, 8.90)			
Steepest	Shekel	5	3	#11	8671	0:02:34	13.095	(5.33, -4.50, -3.23, 5.17, 0.86)			
Steepest	Shekel	5	3	#12	8663	0:02:35	12.723	(-14.07, 5.42, -8.92, -11.03, -10.88)			
Steepest	Shekel	5	3	#13	8587	0:02:35	12.743	(-9.59, 1.71, 4.32, 1.48, 4.22)			
Steepest	Shekel	5	3	#14	8582	0:02:34	14.012	(9.44, -9.18, -5.30, -2.23, 12.63)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Shekel	5	3	#15	8662	0:02:35	12.643	(16.54, 0.63, 11.29, -12.40, -18.14)			
Steepest	Rastrigin	5	0	#1	20130	0:00:20	131.1	(-1.55, 0.00, -0.12, -0.15, 2.13)	113.509	17.221	40.819
Steepest	Rastrigin	5	0	#2	19707	0:00:19	102.149	(2.11, -0.53, 2.12, -2.39, -1.85)			
Steepest	Rastrigin	5	0	#3	19680	0:00:20	96.621	(-3.91, 1.83, -0.12, -1.95, -5.90)			
Steepest	Rastrigin	5	0	#4	19726	0:00:19	109.032	(0.46, 1.81, 2.04, -2.03, -4.11)			
Steepest	Rastrigin	5	0	#5	19912	0:00:19	119.672	(0.26, -1.77, 0.27, 1.90, -1.64)			
Steepest	Rastrigin	5	0	#6	19735	0:00:20	87.6	(4.20, -0.26, 1.99, -1.50, -3.80)			
Steepest	Rastrigin	5	0	#7	19669	0:00:19	138.09	(-1.66, 2.00, -1.95, -0.06, -0.07)			
Steepest	Rastrigin	5	0	#8	19982	0:00:20	131.907	(0.02, -0.49, -1.95, 0.04, -1.93)			
Steepest	Rastrigin	5	0	#9	19923	0:00:19	90.485	(-1.97, -3.96, -2.26, 2.62, 1.98)			
Steepest	Rastrigin	5	0	#10	19637	0:00:20	117.975	(-2.22, -0.03, 2.12, 0.23, -1.51)			
Steepest	Rastrigin	5	0	#11	19756	0:00:19	131.139	(-2.02, 3.89, 2.02, 0.02, 1.92)			
Steepest	Rastrigin	5	0	#12	19699	0:00:19	109.824	(2.06, -0.30, -4.03, 3.90, 1.89)			
Steepest	Rastrigin	5	0	#13	19874	0:00:20	98.838	(1.93, -1.67, -0.12, 3.35, 0.15)			
Steepest	Rastrigin	5	0	#14	19651	0:00:19	101.718	(1.60, 2.37, -2.19, 1.70, -1.89)			
Steepest	Rastrigin	5	0	#15	19566	0:00:20	136.48	(-0.03, -0.02, 0.02, 4.14, -2.05)			
Steepest	Rastrigin	5	1	#1	19681	0:02:39	133.377	(-0.15, 1.95, -0.41, -0.14, 2.08)	107.289	9.638	40.526
Steepest	Rastrigin	5	1	#2	19834	0:02:40	103.493	(-4.22, 0.17, 3.90, -3.95, 0.00)			
Steepest	Rastrigin	5	1	#3	19835	0:02:39	114.248	(-3.93, 2.16, 3.92, 1.94, -1.99)			
Steepest	Rastrigin	5	1	#4	19641	0:02:39	103.128	(0.24, -1.70, 0.65, -0.34, -0.05)			
Steepest	Rastrigin	5	1	#5	19689	0:02:40	103.959	(-5.96, -0.04, 0.03, 3.94, 1.86)			
Steepest	Rastrigin	5	1	#6	19636	0:02:39	88.262	(2.05, 0.11, 1.44, 6.02, 2.05)			
Steepest	Rastrigin	5	1	#7	19706	0:02:39	107.294	(-0.10, -1.90, 6.00, 2.14, 2.04)			
Steepest	Rastrigin	5	1	#8	19654	0:02:40	112.837	(-4.01, -1.56, 2.01, -1.91, 1.96)			
Steepest	Rastrigin	5	1	#9	19693	0:02:39	98.913	(1.99, 3.44, 2.32, -0.04, -2.16)			
Steepest	Rastrigin	5	1	#10	19766	0:02:47	109.119	(-2.16, -2.42, 1.95, 1.55, -0.02)			
Steepest	Rastrigin	5	1	#11	20096	0:02:40	108.985	(-3.90, 1.75, -1.88, 3.86, 1.95)			
Steepest	Rastrigin	5	1	#12	19783	0:02:39	106.4	(0.02, 1.32, 0.00, -4.19, 0.02)			
Steepest	Rastrigin	5	1	#13	20002	0:02:40	101.022	(1.94, 1.97, -3.32, -0.02, 0.36)			
Steepest	Rastrigin	5	1	#14	19802	0:02:39	106.661	(0.00, 3.86, -1.34, 2.06, -0.03)			
Steepest	Rastrigin	5	1	#15	19792	0:02:46	111.643	(0.06, 4.00, -2.03, 3.74, -0.28)			
Steepest	Rastrigin	5	2	#1	19591	0:02:42	101.795	(-2.02, 0.26, 0.02, -1.02, -0.22)	114.040	14.744	40.936
Steepest	Rastrigin	5	2	#2	19937	0:02:39	135.772	(0.36, -0.01, 1.97, 1.96, -1.99)			
Steepest	Rastrigin	5	2	#3	20017	0:02:40	133.814	(-0.08, -0.05, -3.99, 1.95, 1.93)			
Steepest	Rastrigin	5	2	#4	19523	0:02:39	108.797	(0.43, 1.92, 1.57, -1.79, -2.13)			
Steepest	Rastrigin	5	2	#5	19729	0:02:39	104.486	(0.09, 3.93, 0.39, -2.46, -0.08)			
Steepest	Rastrigin	5	2	#6	19584	0:02:40	100.622	(-0.67, -4.11, 1.98, 1.98, 1.92)			
Steepest	Rastrigin	5	2	#7	19711	0:02:39	125.198	(3.81, -0.09, -2.10, 2.09, 1.86)			
Steepest	Rastrigin	5	2	#8	19967	0:02:39	114.632	(-0.36, 1.82, 3.72, 2.06, -0.15)			
Steepest	Rastrigin	5	2	#9	19816	0:02:40	103.805	(5.98, 0.06, 2.02, -0.36, 1.90)			
Steepest	Rastrigin	5	2	#10	19704	0:02:39	119.731	(0.46, 1.96, -2.08, -0.24, 0.27)			
Steepest	Rastrigin	5	2	#11	19595	0:02:40	138.604	(0.29, 0.16, 2.08, 2.13, -1.89)			
Steepest	Rastrigin	5	2	#12	19998	0:02:39	114.241	(-0.14, 0.00, 1.76, -3.95, -4.03)			
Steepest	Rastrigin	5	2	#13	19854	0:02:40	109.043	(3.77, 0.11, -0.34, 0.02, 3.78)			
Steepest	Rastrigin	5	2	#14	19652	0:02:39	115.009	(0.24, -1.79, 0.14, -0.47, 2.31)			
Steepest	Rastrigin	5	2	#15	19884	0:02:40	85.058	(-3.96, 5.83, -0.18, 2.05, 2.34)			
Steepest	Rastrigin	5	3	#1	19787	0:02:39	109.85	(0.07, 3.81, 2.11, 4.03, 1.63)	117.545	9.443	41.335
Steepest	Rastrigin	5	3	#2	19677	0:02:46	107.882	(1.95, -2.45, -1.78, -1.99, 2.24)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rastrigin	5	3	#3	19862	0:02:49	97.529	(-3.65, 0.09, -4.07, -1.98, 3.89)			
Steepest	Rastrigin	5	3	#4	19754	0:02:40	117.093	(0.01, -2.05, 0.00, 5.85, 1.94)			
Steepest	Rastrigin	5	3	#5	19923	0:02:40	124.459	(3.92, -1.95, 1.94, 0.00, -3.94)			
Steepest	Rastrigin	5	3	#6	19802	0:02:39	124.35	(-3.30, -0.08, -0.02, 0.02, -0.19)			
Steepest	Rastrigin	5	3	#7	19577	0:02:40	111.812	(1.87, 4.02, 1.70, 2.02, -3.99)			
Steepest	Rastrigin	5	3	#8	19874	0:02:39	117.302	(0.07, -0.36, -2.03, -2.03, 3.80)			
Steepest	Rastrigin	5	3	#9	19906	0:02:40	125.166	(-3.98, 3.97, -0.01, 2.04, 1.96)			
Steepest	Rastrigin	5	3	#10	19978	0:02:40	127.54	(2.06, -1.88, 1.91, 2.05, 3.96)			
Steepest	Rastrigin	5	3	#11	19831	0:02:40	123.896	(-4.20, -3.92, 0.07, 0.02, 0.00)			
Steepest	Rastrigin	5	3	#12	19681	0:02:40	121.059	(1.84, -1.56, 0.00, -3.93, -2.05)			
Steepest	Rastrigin	5	3	#13	19685	0:02:52	107.502	(-2.31, -1.90, -1.57, 3.99, -1.95)			
Steepest	Rastrigin	5	3	#14	19843	0:02:39	114.476	(-0.20, 3.92, -0.26, 0.06, -4.22)			
Steepest	Rastrigin	5	3	#15	19802	0:02:40	133.261	(-0.22, -0.34, -0.08, 0.12, -1.92)			
Steepest	Rosenbrock	5	0	#1	42158	0:00:24	79.924	(-1.12, -0.38, 0.08, -0.24, 2.00)	79.904	0.045	38.051
Steepest	Rosenbrock	5	0	#2	42095	0:00:23	79.905	(-1.77, -1.68, 0.05, 1.48, 1.16)			
Steepest	Rosenbrock	5	0	#3	42275	0:00:24	79.897	(0.53, -0.27, 0.93, -0.50, 0.15)			
Steepest	Rosenbrock	5	0	#4	42333	0:00:24	79.909	(-0.85, 2.05, -0.07, 0.87, 1.36)			
Steepest	Rosenbrock	5	0	#5	42257	0:00:23	79.98	(0.95, 0.56, 0.12, 0.35, 0.32)			
Steepest	Rosenbrock	5	0	#6	42539	0:00:24	79.901	(-0.78, -0.17, -0.84, 0.61, -0.92)			
Steepest	Rosenbrock	5	0	#7	42349	0:00:24	79.899	(-1.90, 0.49, 0.27, 1.26, 0.81)			
Steepest	Rosenbrock	5	0	#8	42104	0:00:23	79.922	(1.03, -1.32, -0.40, -0.43, 1.61)			
Steepest	Rosenbrock	5	0	#9	41954	0:00:24	79.786	(1.65, 1.57, -0.10, 0.42, -2.57)			
Steepest	Rosenbrock	5	0	#10	42046	0:00:23	79.923	(0.10, 0.08, 0.64, -0.92, -0.87)			
Steepest	Rosenbrock	5	0	#11	41981	0:00:24	79.868	(-0.31, 0.83, 0.80, -0.66, -1.66)			
Steepest	Rosenbrock	5	0	#12	42396	0:00:24	79.87	(-1.45, 2.34, -0.69, 0.58, -0.22)			
Steepest	Rosenbrock	5	0	#13	42129	0:00:23	79.972	(-0.86, -0.93, -0.18, -0.58, -0.07)			
Steepest	Rosenbrock	5	0	#14	42227	0:00:24	79.916	(-0.34, 1.86, 0.36, 0.47, 1.44)			
Steepest	Rosenbrock	5	0	#15	41999	0:00:23	79.887	(0.82, -3.20, -0.17, 0.17, -1.10)			
Steepest	Rosenbrock	5	1	#1	28152	0:02:44	81.622	(1.78, -2.34, 1.41, 2.31, 1.18)	81.558	0.405	38.229
Steepest	Rosenbrock	5	1	#2	28321	0:02:44	81.194	(-5.12, -4.61, -2.74, 4.99, 6.92)			
Steepest	Rosenbrock	5	1	#3	28224	0:02:44	81.66	(-0.07, -0.75, -1.33, -2.09, 1.76)			
Steepest	Rosenbrock	5	1	#4	27890	0:02:44	81.772	(-1.11, 3.36, -0.80, 3.17, -0.90)			
Steepest	Rosenbrock	5	1	#5	28659	0:02:44	81.26	(-4.09, -0.43, 0.06, 0.13, 2.95)			
Steepest	Rosenbrock	5	1	#6	29087	0:02:44	82.08	(-2.46, -2.57, 0.78, 4.84, 4.83)			
Steepest	Rosenbrock	5	1	#7	28857	0:02:52	82.468	(-0.01, -3.06, 0.54, -4.74, -2.12)			
Steepest	Rosenbrock	5	1	#8	28822	0:02:45	81.303	(0.94, -0.64, -0.75, -0.27, -0.85)			
Steepest	Rosenbrock	5	1	#9	28474	0:02:44	81.404	(0.21, 3.52, -1.97, -1.13, 9.43)			
Steepest	Rosenbrock	5	1	#10	28188	0:02:44	81.969	(2.63, 3.24, 1.31, -0.16, 0.31)			
Steepest	Rosenbrock	5	1	#11	28903	0:02:44	80.938	(2.22, 2.22, -0.45, 3.05, 3.52)			
Steepest	Rosenbrock	5	1	#12	28247	0:02:44	81.718	(-2.42, -0.84, -1.31, -4.11, -0.90)			
Steepest	Rosenbrock	5	1	#13	28671	0:02:44	81.37	(-3.97, -2.48, 0.88, 4.85, -1.77)			
Steepest	Rosenbrock	5	1	#14	28525	0:02:44	81.519	(-0.36, 2.21, 2.30, 1.58, -3.94)			
Steepest	Rosenbrock	5	1	#15	28340	0:02:44	81.099	(-2.77, 7.45, -2.30, -0.76, 1.09)			
Steepest	Rosenbrock	5	2	#1	22730	0:02:40	83.188	(5.14, 2.35, -2.98, 4.47, 0.51)	84.221	0.816	38.507
Steepest	Rosenbrock	5	2	#2	22463	0:02:39	83.462	(0.36, -8.71, -1.96, 0.56, 2.22)			
Steepest	Rosenbrock	5	2	#3	23107	0:02:40	84.08	(0.38, -1.15, 3.69, 0.21, 4.20)			
Steepest	Rosenbrock	5	2	#4	23080	0:02:40	84.588	(3.83, -2.00, 0.14, 6.47, 3.48)			
Steepest	Rosenbrock	5	2	#5	23256	0:02:40	84.027	(-1.40, 3.71, 1.99, -0.87, 6.50)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Rosenbrock	5	2	#6	23236	0:02:39	83.721	(3.09, -2.38, -1.17, 6.63, 0.27)			
Steepest	Rosenbrock	5	2	#7	22808	0:02:40	83.68	(-2.91, 0.71, 1.03, 3.55, -5.62)			
Steepest	Rosenbrock	5	2	#8	23363	0:02:40	84.359	(-0.85, -1.37, -2.61, -2.35, 5.54)			
Steepest	Rosenbrock	5	2	#9	22953	0:02:39	86.385	(3.34, -4.34, -1.32, 0.52, -0.24)			
Steepest	Rosenbrock	5	2	#10	22861	0:02:40	83.907	(1.46, 1.05, 0.90, 2.95, -0.51)			
Steepest	Rosenbrock	5	2	#11	23191	0:02:40	84.318	(3.40, -1.76, -1.56, -1.97, 6.03)			
Steepest	Rosenbrock	5	2	#12	23045	0:02:39	84.742	(-0.59, -7.75, 0.49, -3.14, 9.70)			
Steepest	Rosenbrock	5	2	#13	22643	0:02:40	83.807	(0.63, 10.49, 1.70, 3.23, 0.65)			
Steepest	Rosenbrock	5	2	#14	23313	0:02:40	85.395	(3.39, -4.89, 1.12, 2.70, -2.57)			
Steepest	Rosenbrock	5	2	#15	22897	0:02:39	83.662	(-0.94, 3.34, -0.30, -6.62, 3.12)			
Steepest	Rosenbrock	5	3	#1	20040	0:02:37	86.207	(2.67, -0.17, 3.46, -1.18, 1.88)	86.376	1.526	38.724
Steepest	Rosenbrock	5	3	#2	20115	0:02:38	86.521	(-1.22, -4.13, -0.23, -0.80, 2.93)			
Steepest	Rosenbrock	5	3	#3	19937	0:02:36	85.977	(3.91, -3.11, 1.71, 3.57, 6.85)			
Steepest	Rosenbrock	5	3	#4	20031	0:02:37	84.488	(5.02, 2.46, 0.43, -1.88, 6.81)			
Steepest	Rosenbrock	5	3	#5	20185	0:02:38	87.764	(0.34, 4.55, -0.93, -3.31, -0.79)			
Steepest	Rosenbrock	5	3	#6	20094	0:02:37	84.979	(3.88, 3.61, -0.68, 4.51, -1.40)			
Steepest	Rosenbrock	5	3	#7	20155	0:02:37	89.086	(-6.53, -6.49, 0.20, 6.37, -4.65)			
Steepest	Rosenbrock	5	3	#8	19882	0:02:37	85.355	(-5.70, -9.99, 1.96, 6.46, -0.89)			
Steepest	Rosenbrock	5	3	#9	19660	0:02:37	84.477	(-7.09, 0.93, -3.71, 9.19, 5.48)			
Steepest	Rosenbrock	5	3	#10	20247	0:02:37	88.441	(5.94, -8.14, -5.45, -2.04, 1.72)			
Steepest	Rosenbrock	5	3	#11	19643	0:02:37	86.262	(-0.77, -10.45, 3.59, -0.71, -11.43)			
Steepest	Rosenbrock	5	3	#12	20551	0:02:38	85.294	(4.01, 0.81, -0.87, 9.47, -0.49)			
Steepest	Rosenbrock	5	3	#13	20396	0:02:38	86.141	(2.62, -0.99, 0.78, 2.37, 2.42)			
Steepest	Rosenbrock	5	3	#14	20241	0:02:37	85.636	(6.30, 6.86, -4.06, 3.90, 11.14)			
Steepest	Rosenbrock	5	3	#15	20497	0:02:37	89.005	(1.26, 4.04, -0.85, -3.49, 3.38)			
Steepest	Styblinski	5	0	#1	42540	0:00:22	364.806	(-2.85, -1.68, -2.45, 3.81, 1.62)	372.960	5.975	51.430
Steepest	Styblinski	5	0	#2	43034	0:00:22	371.223	(-2.47, -2.07, -3.25, 0.32, 3.61)			
Steepest	Styblinski	5	0	#3	41735	0:00:22	373.167	(-3.70, -2.65, -3.32, 1.69, 1.58)			
Steepest	Styblinski	5	0	#4	42088	0:00:21	375.138	(-2.96, -3.52, -2.09, 0.14, 0.94)			
Steepest	Styblinski	5	0	#5	42392	0:00:22	381.362	(-2.47, -3.10, -2.20, 0.18, 1.50)			
Steepest	Styblinski	5	0	#6	42665	0:00:21	381.965	(-2.96, -2.53, -3.05, 3.33, 2.60)			
Steepest	Styblinski	5	0	#7	43026	0:00:22	375.743	(-2.31, -3.49, -2.98, 3.04, 0.33)			
Steepest	Styblinski	5	0	#8	41655	0:00:22	374.497	(-3.35, -1.88, -2.99, -0.20, 0.99)			
Steepest	Styblinski	5	0	#9	42572	0:00:21	369.043	(-2.38, -3.05, -1.88, 2.14, -1.30)			
Steepest	Styblinski	5	0	#10	42350	0:00:22	364.914	(-2.80, -3.09, 1.81, -0.29, -0.48)			
Steepest	Styblinski	5	0	#11	41765	0:00:22	364.821	(-3.27, -2.09, -2.63, 2.32, -2.69)			
Steepest	Styblinski	5	0	#12	43092	0:00:21	378.128	(-2.56, -2.32, -2.95, 1.45, -1.74)			
Steepest	Styblinski	5	0	#13	42735	0:00:22	369.62	(-2.50, -2.78, 3.22, 2.07, 2.04)			
Steepest	Styblinski	5	0	#14	43425	0:00:22	369.018	(-3.37, -3.01, -3.02, 3.33, 4.63)			
Steepest	Styblinski	5	0	#15	42809	0:00:21	380.962	(-2.49, -3.04, -2.30, 2.72, 1.79)			
Steepest	Styblinski	5	1	#1	42592	0:02:53	385.052	(-2.88, -3.27, -3.33, 0.85, 2.42)	376.275	6.894	51.507
Steepest	Styblinski	5	1	#2	42446	0:02:51	372.465	(-2.93, -1.72, -2.36, -0.31, 1.02)			
Steepest	Styblinski	5	1	#3	43797	0:02:52	382.074	(-2.70, -3.43, -2.79, -0.37, -0.24)			
Steepest	Styblinski	5	1	#4	42695	0:02:52	384.999	(-2.87, -3.10, -3.30, 2.86, 1.46)			
Steepest	Styblinski	5	1	#5	43044	0:03:01	381.368	(-2.78, -3.06, -3.18, 3.66, -0.55)			
Steepest	Styblinski	5	1	#6	43467	0:02:53	373.667	(-3.03, 3.11, -2.85, 1.52, -0.41)			
Steepest	Styblinski	5	1	#7	42704	0:02:52	378.236	(-3.46, -2.90, -2.16, 1.29, 1.05)			
Steepest	Styblinski	5	1	#8	42299	0:02:51	377.147	(-2.67, -2.57, -3.16, -0.03, 4.27)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
Steepest	Styblinski	5	1	#9	42528	0:02:52	367.096	(-2.77, -1.44, -2.54, 0.16, 1.46)			
Steepest	Styblinski	5	1	#10	42896	0:02:52	373.798	(-2.96, -1.74, -2.57, 1.45, 2.05)			
Steepest	Styblinski	5	1	#11	42577	0:02:52	365.312	(-2.77, -2.26, 2.85, 2.23, -1.37)			
Steepest	Styblinski	5	1	#12	42412	0:02:52	370.721	(-3.35, 2.97, -2.77, 2.16, -0.52)			
Steepest	Styblinski	5	1	#13	43028	0:02:52	372.657	(-2.73, -1.53, -2.84, 1.56, 1.67)			
Steepest	Styblinski	5	1	#14	43055	0:02:52	388.365	(-2.93, -2.52, -2.72, 1.29, 0.19)			
Steepest	Styblinski	5	1	#15	42365	0:02:52	371.172	(-2.88, -1.85, -2.89, -0.58, 3.06)			
Steepest	Styblinski	5	2	#1	41637	0:02:51	368.469	(2.46, -2.45, -2.75, -0.11, 3.21)	375.180	7.218	51.480
Steepest	Styblinski	5	2	#2	42190	0:02:52	375.838	(-2.57, -3.27, -3.32, 0.01, -1.55)			
Steepest	Styblinski	5	2	#3	42844	0:02:52	384.247	(-2.62, -2.37, -3.34, 0.79, -0.04)			
Steepest	Styblinski	5	2	#4	42611	0:02:52	372.991	(-2.95, -2.71, -2.59, 0.54, 4.72)			
Steepest	Styblinski	5	2	#5	43239	0:02:52	380.806	(-2.97, -3.00, -2.42, -1.76, 2.57)			
Steepest	Styblinski	5	2	#6	42135	0:02:52	377.745	(-2.47, -2.82, -3.37, 2.76, 2.20)			
Steepest	Styblinski	5	2	#7	42524	0:02:52	388.374	(-3.18, -2.89, -2.90, 2.14, 0.02)			
Steepest	Styblinski	5	2	#8	42305	0:02:52	374.584	(-3.15, -2.99, 2.99, 1.46, 1.99)			
Steepest	Styblinski	5	2	#9	42567	0:02:52	368.86	(-3.68, -2.44, -3.16, -1.39, 2.23)			
Steepest	Styblinski	5	2	#10	42540	0:02:52	370.182	(-2.37, -2.53, -3.13, -0.48, 4.73)			
Steepest	Styblinski	5	2	#11	42457	0:02:51	363.969	(-1.86, -2.28, -2.45, -1.12, 2.54)			
Steepest	Styblinski	5	2	#12	43406	0:02:53	382.795	(-2.57, -3.16, -2.92, -0.08, -1.76)			
Steepest	Styblinski	5	2	#13	42806	0:02:52	368.776	(-2.67, -3.34, -2.77, -2.97, 3.19)			
Steepest	Styblinski	5	2	#14	42476	0:02:52	368.158	(-3.76, -3.29, -2.43, -0.36, 0.85)			
Steepest	Styblinski	5	2	#15	42674	0:02:52	381.913	(-2.95, -2.71, -2.05, 1.25, 0.28)			
Steepest	Styblinski	5	3	#1	43051	0:02:53	381.897	(-2.56, -2.69, -3.47, 0.40, 1.99)	376.618	4.438	51.517
Steepest	Styblinski	5	3	#2	41853	0:02:51	372.922	(-3.51, -2.78, -3.23, -0.29, 4.09)			
Steepest	Styblinski	5	3	#3	42724	0:02:53	372.946	(-2.59, -3.48, -2.94, -1.97, -1.24)			
Steepest	Styblinski	5	3	#4	41923	0:02:51	373.627	(-2.39, -2.98, -3.20, 1.66, -2.01)			
Steepest	Styblinski	5	3	#5	43011	0:02:53	369.131	(-2.86, -2.46, -2.84, -3.49, 1.79)			
Steepest	Styblinski	5	3	#6	42512	0:02:51	383.722	(-2.57, -3.39, -2.54, 0.10, 2.52)			
Steepest	Styblinski	5	3	#7	42412	0:02:52	376.5	(2.74, -3.01, -3.09, 1.23, -0.36)			
Steepest	Styblinski	5	3	#8	42586	0:02:52	375.213	(-2.43, -2.82, -2.66, 1.75, 4.73)			
Steepest	Styblinski	5	3	#9	42216	0:02:51	384.264	(-2.03, -3.14, -3.03, 1.12, 0.96)			
Steepest	Styblinski	5	3	#10	43183	0:02:53	377.529	(-2.37, -2.45, -2.50, 1.08, -2.05)			
Steepest	Styblinski	5	3	#11	43115	0:02:52	373.547	(-2.43, -2.24, -2.30, -0.53, 0.99)			
Steepest	Styblinski	5	3	#12	41815	0:02:51	375.291	(-2.76, -2.79, 2.24, -0.44, -0.32)			
Steepest	Styblinski	5	3	#13	42311	0:02:52	381.986	(3.14, -3.03, -2.98, 0.43, 1.95)			
Steepest	Styblinski	5	3	#14	42457	0:02:52	375.964	(-3.02, -3.26, -2.50, 2.47, 2.79)			
Steepest	Styblinski	5	3	#15	42881	0:02:52	374.732	(-3.41, -3.35, -2.29, 1.22, 0.27)			

ตารางที่ 2. แสดงผลการทดสอบปัญหาในการวิจัยด้วยวิธีหิมมูเลทเตดแอนนาลิง

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Branin	2	0	#1	6000	0:00:03	5.782	(3.14, 2.52)	5.822	0.102	15.298
SA	Branin	2	0	#2	6000	0:00:03	5.74	(9.40, 2.73)			
SA	Branin	2	0	#3	6000	0:00:03	5.87	(9.45, 2.63)			
SA	Branin	2	0	#4	6000	0:00:03	5.818	(9.52, 2.56)			
SA	Branin	2	0	#5	6000	0:00:03	5.892	(3.12, 2.39)			
SA	Branin	2	0	#6	6000	0:00:03	5.883	(-3.18, 12.46)			
SA	Branin	2	0	#7	6000	0:00:04	5.516	(15.79, 12.67)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Branin	2	0	#8	6000	0:00:03	5.882	(15.69, 12.71)			
SA	Branin	2	0	#9	6000	0:00:03	5.852	(15.74, 12.80)			
SA	Branin	2	0	#10	6000	0:00:03	5.853	(15.76, 12.88)			
SA	Branin	2	0	#11	6000	0:00:03	5.916	(-3.16, 12.34)			
SA	Branin	2	0	#12	6000	0:00:03	5.74	(15.63, 12.46)			
SA	Branin	2	0	#13	6000	0:00:03	5.798	(9.46, 2.72)			
SA	Branin	2	0	#14	6000	0:00:03	5.905	(-3.12, 12.29)			
SA	Branin	2	0	#15	6000	0:00:04	5.886	(3.10, 2.23)			
SA	Branin	2	1	#1	6000	0:00:07	6.769	(4.23, 1.20)	7.295	0.548	17.210
SA	Branin	2	1	#2	6000	0:00:07	6.604	(9.58, 3.22)			
SA	Branin	2	1	#3	6000	0:00:07	7.312	(9.68, 2.29)			
SA	Branin	2	1	#4	6000	0:00:07	6.935	(9.45, 2.99)			
SA	Branin	2	1	#5	6000	0:00:07	6.652	(-2.92, 12.30)			
SA	Branin	2	1	#6	6000	0:00:06	7.087	(9.88, 3.19)			
SA	Branin	2	1	#7	6000	0:00:07	7.766	(2.81, 2.09)			
SA	Branin	2	1	#8	6000	0:00:07	7.815	(15.70, 13.25)			
SA	Branin	2	1	#9	6000	0:00:07	7.131	(-3.13, 12.00)			
SA	Branin	2	1	#10	6000	0:00:07	7.09	(-3.28, 13.74)			
SA	Branin	2	1	#11	6000	0:00:07	7.622	(9.48, 3.00)			
SA	Branin	2	1	#12	6000	0:00:07	8.367	(-3.13, 11.85)			
SA	Branin	2	1	#13	6000	0:00:07	6.62	(-3.43, 12.78)			
SA	Branin	2	1	#14	6000	0:00:07	7.928	(15.56, 12.62)			
SA	Branin	2	1	#15	6000	0:00:07	7.73	(-3.06, 12.61)			
SA	Branin	2	2	#1	6000	0:00:07	10.092	(-2.46, 9.16)	9.529	0.897	19.483
SA	Branin	2	2	#2	6000	0:00:07	8.613	(13.51, 2.28)			
SA	Branin	2	2	#3	6000	0:00:07	9.136	(3.31, 2.40)			
SA	Branin	2	2	#4	6000	0:00:07	8.736	(16.24, 13.25)			
SA	Branin	2	2	#5	6000	0:00:07	11.214	(3.26, 5.57)			
SA	Branin	2	2	#6	6000	0:00:07	9.152	(15.95, 13.40)			
SA	Branin	2	2	#7	6000	0:00:07	8.745	(10.14, 5.26)			
SA	Branin	2	2	#8	6000	0:00:07	10.821	(-3.19, 12.38)			
SA	Branin	2	2	#9	6000	0:00:07	10.4	(2.21, 1.32)			
SA	Branin	2	2	#10	6000	0:00:07	9.449	(9.90, 5.20)			
SA	Branin	2	2	#11	6000	0:00:07	10.84	(-2.90, 12.32)			
SA	Branin	2	2	#12	6000	0:00:07	8.983	(2.59, 1.60)			
SA	Branin	2	2	#13	6000	0:00:07	9.103	(-2.96, 11.83)			
SA	Branin	2	2	#14	6000	0:00:07	8.591	(3.06, 3.86)			
SA	Branin	2	2	#15	6000	0:00:07	9.054	(-3.41, 11.90)			
SA	Branin	2	3	#1	6000	0:00:07	12.796	(15.66, 14.49)	12.286	0.848	21.736
SA	Branin	2	3	#2	6000	0:00:07	11.811	(-1.79, 6.06)			
SA	Branin	2	3	#3	6000	0:00:07	11.153	(8.13, -0.47)			
SA	Branin	2	3	#4	6000	0:00:06	13.565	(8.75, 1.50)			
SA	Branin	2	3	#5	6000	0:00:07	11.615	(-3.33, 7.12)			
SA	Branin	2	3	#6	6000	0:00:07	12.122	(-3.89, 12.97)			
SA	Branin	2	3	#7	6000	0:00:07	11.637	(-2.23, 0.06)			
SA	Branin	2	3	#8	6000	0:00:07	11.883	(13.86, 11.76)			
SA	Branin	2	3	#9	6000	0:00:07	11.858	(-2.66, 11.98)			
SA	Branin	2	3	#10	6000	0:00:07	14.417	(3.85, 0.10)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Branin	2	3	#11	6000	0:00:07	12.34	(2.76, 3.02)			
SA	Branin	2	3	#12	6000	0:00:07	11.799	(11.15, 5.41)			
SA	Branin	2	3	#13	6000	0:00:07	11.883	(-2.29, 7.65)			
SA	Branin	2	3	#14	6000	0:00:07	12.461	(9.93, -0.26)			
SA	Branin	2	3	#15	6000	0:00:07	12.951	(15.18, 10.62)			
SA	Camelback	2	0	#1	6000	0:00:03	13.239	(-0.10, 0.01)	11.341	1.245	20.956
SA	Camelback	2	0	#2	6000	0:00:03	12.139	(0.08, -0.16)			
SA	Camelback	2	0	#3	6000	0:00:03	11.42	(-0.15, 0.21)			
SA	Camelback	2	0	#4	6000	0:00:03	10.089	(0.42, 0.21)			
SA	Camelback	2	0	#5	6000	0:00:03	11.153	(0.20, -0.22)			
SA	Camelback	2	0	#6	6000	0:00:04	12.189	(0.17, -0.02)			
SA	Camelback	2	0	#7	6000	0:00:03	11.615	(-0.04, -0.21)			
SA	Camelback	2	0	#8	6000	0:00:03	10.994	(0.18, 0.22)			
SA	Camelback	2	0	#9	6000	0:00:03	9.583	(-0.71, 0.16)			
SA	Camelback	2	0	#10	6000	0:00:03	10.263	(-0.39, 0.27)			
SA	Camelback	2	0	#11	6000	0:00:03	10.447	(0.27, 0.26)			
SA	Camelback	2	0	#12	6000	0:00:03	11.908	(0.04, -0.19)			
SA	Camelback	2	0	#13	6000	0:00:03	9.643	(0.12, 0.51)			
SA	Camelback	2	0	#14	6000	0:00:04	13.923	(-0.06, -0.03)			
SA	Camelback	2	0	#15	6000	0:00:03	11.507	(0.24, -0.01)			
SA	Camelback	2	1	#1	6000	0:00:07	10.655	(-0.62, 0.16)	12.121	1.313	21.577
SA	Camelback	2	1	#2	6000	0:00:07	10.395	(1.51, -0.64)			
SA	Camelback	2	1	#3	6000	0:00:07	11.834	(1.52, -0.12)			
SA	Camelback	2	1	#4	6000	0:00:07	11.528	(-0.57, 0.01)			
SA	Camelback	2	1	#5	6000	0:00:07	11.652	(-0.49, -0.22)			
SA	Camelback	2	1	#6	6000	0:00:07	11.491	(-0.42, -0.45)			
SA	Camelback	2	1	#7	6000	0:00:07	14.967	(0.07, 0.04)			
SA	Camelback	2	1	#8	6000	0:00:06	11.813	(-0.34, -0.69)			
SA	Camelback	2	1	#9	6000	0:00:07	14.639	(0.04, 0.05)			
SA	Camelback	2	1	#10	6000	0:00:07	13.33	(-0.16, 0.32)			
SA	Camelback	2	1	#11	6000	0:00:07	11.621	(0.05, -0.44)			
SA	Camelback	2	1	#12	6000	0:00:07	11.693	(-0.45, -0.16)			
SA	Camelback	2	1	#13	6000	0:00:07	12.27	(0.81, -0.32)			
SA	Camelback	2	1	#14	6000	0:00:07	12.81	(-0.13, 0.09)			
SA	Camelback	2	1	#15	6000	0:00:07	11.114	(-0.18, 0.03)			
SA	Camelback	2	2	#1	6000	0:00:07	14.877	(0.14, -0.55)	14.031	1.370	22.839
SA	Camelback	2	2	#2	6000	0:00:07	13.619	(-1.73, 0.99)			
SA	Camelback	2	2	#3	6000	0:00:07	14.752	(0.10, -0.25)			
SA	Camelback	2	2	#4	6000	0:00:07	13.325	(-1.52, -0.04)			
SA	Camelback	2	2	#5	6000	0:00:07	14.381	(-0.06, -0.05)			
SA	Camelback	2	2	#6	6000	0:00:07	16.533	(-0.07, -0.24)			
SA	Camelback	2	2	#7	6000	0:00:07	12.999	(0.36, -0.05)			
SA	Camelback	2	2	#8	6000	0:00:07	12.125	(0.95, -2.21)			
SA	Camelback	2	2	#9	6000	0:00:07	13.593	(0.46, -0.54)			
SA	Camelback	2	2	#10	6000	0:00:07	16.891	(0.37, 0.33)			
SA	Camelback	2	2	#11	6000	0:00:07	13.279	(1.07, -0.18)			
SA	Camelback	2	2	#12	6000	0:00:07	12.36	(-0.29, 0.42)			
SA	Camelback	2	2	#13	6000	0:00:06	13.55	(1.42, 1.26)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Camelback	2	2	#14	6000	0:00:07	14.899	(0.08, 0.13)			
SA	Camelback	2	2	#15	6000	0:00:07	13.28	(0.32, -0.21)			
SA	Camelback	2	3	#1	6000	0:00:06	13.645	(0.34, 2.05)	14.948	1.222	23.432
SA	Camelback	2	3	#2	6000	0:00:07	14.296	(1.32, -0.43)			
SA	Camelback	2	3	#3	6000	0:00:07	12.87	(-2.07, -0.17)			
SA	Camelback	2	3	#4	6000	0:00:07	14.516	(1.49, -1.30)			
SA	Camelback	2	3	#5	6000	0:00:07	14.739	(-1.45, 1.03)			
SA	Camelback	2	3	#6	6000	0:00:07	14.226	(0.36, -0.60)			
SA	Camelback	2	3	#7	6000	0:00:07	17.454	(1.04, -0.25)			
SA	Camelback	2	3	#8	6000	0:00:07	14.479	(-0.80, 1.68)			
SA	Camelback	2	3	#9	6000	0:00:07	15.304	(-1.39, 0.18)			
SA	Camelback	2	3	#10	6000	0:00:07	14.257	(-2.48, -1.21)			
SA	Camelback	2	3	#11	6000	0:00:07	15.526	(-0.06, -0.13)			
SA	Camelback	2	3	#12	6000	0:00:07	14.332	(-1.30, -0.28)			
SA	Camelback	2	3	#13	6000	0:00:07	17.091	(-0.17, -0.48)			
SA	Camelback	2	3	#14	6000	0:00:07	15.572	(-2.73, -1.27)			
SA	Camelback	2	3	#15	6000	0:00:07	15.908	(0.75, 1.02)			
SA	GoldsteinPrice	2	0	#1	6000	0:00:03	7.574	(0.07, -0.87)	6.905	0.986	16.529
SA	GoldsteinPrice	2	0	#2	6000	0:00:03	7.989	(-0.12, -1.00)			
SA	GoldsteinPrice	2	0	#3	6000	0:00:03	6.311	(-0.71, -0.37)			
SA	GoldsteinPrice	2	0	#4	6000	0:00:04	7.506	(-0.07, -1.12)			
SA	GoldsteinPrice	2	0	#5	6000	0:00:03	5.964	(0.18, -0.73)			
SA	GoldsteinPrice	2	0	#6	6000	0:00:03	7.42	(0.02, -0.86)			
SA	GoldsteinPrice	2	0	#7	6000	0:00:03	7.502	(-0.16, -1.00)			
SA	GoldsteinPrice	2	0	#8	6000	0:00:03	6.252	(0.31, -0.90)			
SA	GoldsteinPrice	2	0	#9	6000	0:00:03	6.845	(0.17, -1.07)			
SA	GoldsteinPrice	2	0	#10	6000	0:00:04	7.207	(-0.16, -0.85)			
SA	GoldsteinPrice	2	0	#11	6000	0:00:03	8.58	(0.05, -0.95)			
SA	GoldsteinPrice	2	0	#12	6000	0:00:03	5.408	(-0.06, -0.64)			
SA	GoldsteinPrice	2	0	#13	6000	0:00:03	7.482	(0.15, -0.86)			
SA	GoldsteinPrice	2	0	#14	6000	0:00:03	4.969	(2.23, 0.52)			
SA	GoldsteinPrice	2	0	#15	6000	0:00:03	6.564	(0.19, -1.08)			
SA	GoldsteinPrice	2	1	#1	6000	0:00:07	4.991	(-0.07, -0.38)	7.368	1.287	16.971
SA	GoldsteinPrice	2	1	#2	6000	0:00:07	9.588	(0.12, -0.98)			
SA	GoldsteinPrice	2	1	#3	6000	0:00:07	6.527	(2.46, 0.66)			
SA	GoldsteinPrice	2	1	#4	6000	0:00:07	8.224	(0.30, -0.87)			
SA	GoldsteinPrice	2	1	#5	6000	0:00:07	7.497	(-0.14, -0.91)			
SA	GoldsteinPrice	2	1	#6	6000	0:00:07	8.692	(0.24, -0.93)			
SA	GoldsteinPrice	2	1	#7	6000	0:00:07	6.852	(-0.16, -1.19)			
SA	GoldsteinPrice	2	1	#8	6000	0:00:07	7.893	(0.00, -1.09)			
SA	GoldsteinPrice	2	1	#9	6000	0:00:07	9.191	(0.08, -0.96)			
SA	GoldsteinPrice	2	1	#10	6000	0:00:07	6.706	(2.33, 0.53)			
SA	GoldsteinPrice	2	1	#11	6000	0:00:07	7.416	(0.65, -0.57)			
SA	GoldsteinPrice	2	1	#12	6000	0:00:07	6.437	(-0.75, -0.59)			
SA	GoldsteinPrice	2	1	#13	6000	0:00:07	5.455	(0.64, -0.03)			
SA	GoldsteinPrice	2	1	#14	6000	0:00:07	7.012	(-0.22, -0.82)			
SA	GoldsteinPrice	2	1	#15	6000	0:00:07	8.039	(-0.31, -0.74)			
SA	GoldsteinPrice	2	2	#1	6000	0:00:07	9.255	(-0.28, -0.67)	8.567	1.274	18.405

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	GoldsteinPrice	2	2	#2	6000	0:00:07	7.708	(-0.29, -1.04)			
SA	GoldsteinPrice	2	2	#3	6000	0:00:07	7.328	(1.62, 1.03)			
SA	GoldsteinPrice	2	2	#4	6000	0:00:07	9.523	(0.76, -0.51)			
SA	GoldsteinPrice	2	2	#5	6000	0:00:07	6.502	(0.83, -0.42)			
SA	GoldsteinPrice	2	2	#6	6000	0:00:07	8.475	(0.56, -1.19)			
SA	GoldsteinPrice	2	2	#7	6000	0:00:07	7.495	(0.16, -0.38)			
SA	GoldsteinPrice	2	2	#8	6000	0:00:07	8.755	(1.29, 0.21)			
SA	GoldsteinPrice	2	2	#9	6000	0:00:07	9.452	(-0.33, -1.23)			
SA	GoldsteinPrice	2	2	#10	6000	0:00:07	8.621	(0.30, -0.69)			
SA	GoldsteinPrice	2	2	#11	6000	0:00:07	8.801	(-0.11, -1.04)			
SA	GoldsteinPrice	2	2	#12	6000	0:00:07	6.868	(1.45, -0.29)			
SA	GoldsteinPrice	2	2	#13	6000	0:00:07	8.215	(0.41, -0.70)			
SA	GoldsteinPrice	2	2	#14	6000	0:00:07	10.466	(0.10, -1.15)			
SA	GoldsteinPrice	2	2	#15	6000	0:00:07	11.048	(0.28, -0.73)			
SA	GoldsteinPrice	2	3	#1	6000	0:00:07	7.807	(-0.72, -0.25)	9.678	1.434	19.449
SA	GoldsteinPrice	2	3	#2	6000	0:00:07	11.681	(-0.30, 0.09)			
SA	GoldsteinPrice	2	3	#3	6000	0:00:07	7.392	(1.69, 0.86)			
SA	GoldsteinPrice	2	3	#4	6000	0:00:07	11.348	(-0.16, -0.84)			
SA	GoldsteinPrice	2	3	#5	6000	0:00:07	11.007	(0.45, -0.93)			
SA	GoldsteinPrice	2	3	#6	6000	0:00:07	9.238	(0.32, -1.01)			
SA	GoldsteinPrice	2	3	#7	6000	0:00:07	8.417	(-0.78, -0.27)			
SA	GoldsteinPrice	2	3	#8	6000	0:00:07	10.362	(1.91, 0.35)			
SA	GoldsteinPrice	2	3	#9	6000	0:00:07	11.826	(-0.26, -0.33)			
SA	GoldsteinPrice	2	3	#10	6000	0:00:07	9.993	(0.87, -1.67)			
SA	GoldsteinPrice	2	3	#11	6000	0:00:07	8.36	(0.01, -0.01)			
SA	GoldsteinPrice	2	3	#12	6000	0:00:07	8.684	(0.63, -0.49)			
SA	GoldsteinPrice	2	3	#13	6000	0:00:06	10.249	(0.58, -1.61)			
SA	GoldsteinPrice	2	3	#14	6000	0:00:06	8.591	(-0.68, -0.43)			
SA	GoldsteinPrice	2	3	#15	6000	0:00:07	10.212	(0.03, -0.30)			
SA	Parabolic	2	0	#1	6000	0:00:03	12	(0.03, -0.07)	11.999	0.001	21.583
SA	Parabolic	2	0	#2	6000	0:00:03	11.996	(0.10, -0.63)			
SA	Parabolic	2	0	#3	6000	0:00:03	11.999	(0.07, -0.37)			
SA	Parabolic	2	0	#4	6000	0:00:03	11.999	(-0.23, 0.30)			
SA	Parabolic	2	0	#5	6000	0:00:03	11.999	(0.21, 0.13)			
SA	Parabolic	2	0	#6	6000	0:00:03	11.999	(-0.14, 0.18)			
SA	Parabolic	2	0	#7	6000	0:00:03	11.999	(-0.09, 0.36)			
SA	Parabolic	2	0	#8	6000	0:00:04	11.999	(-0.24, 0.08)			
SA	Parabolic	2	0	#9	6000	0:00:03	11.999	(0.16, -0.30)			
SA	Parabolic	2	0	#10	6000	0:00:03	12	(0.10, -0.05)			
SA	Parabolic	2	0	#11	6000	0:00:03	11.999	(0.25, -0.19)			
SA	Parabolic	2	0	#12	6000	0:00:03	11.999	(-0.08, -0.31)			
SA	Parabolic	2	0	#13	6000	0:00:03	12	(0.05, 0.10)			
SA	Parabolic	2	0	#14	6000	0:00:03	11.999	(-0.23, -0.28)			
SA	Parabolic	2	0	#15	6000	0:00:03	11.995	(-0.58, 0.45)			
SA	Parabolic	2	1	#1	6000	0:00:07	15.491	(-2.72, -0.88)	14.907	0.251	23.465
SA	Parabolic	2	1	#2	6000	0:00:06	14.716	(-3.46, 3.16)			
SA	Parabolic	2	1	#3	6000	0:00:07	15.299	(-3.79, 3.65)			
SA	Parabolic	2	1	#4	6000	0:00:07	14.813	(4.39, 2.22)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Parabolic	2	1	#5	6000	0:00:07	14.749	(1.68, -4.13)			
SA	Parabolic	2	1	#6	6000	0:00:07	14.994	(-2.37, 2.36)			
SA	Parabolic	2	1	#7	6000	0:00:07	14.919	(2.18, -2.79)			
SA	Parabolic	2	1	#8	6000	0:00:07	14.558	(4.07, -3.55)			
SA	Parabolic	2	1	#9	6000	0:00:07	15.135	(-5.15, 3.60)			
SA	Parabolic	2	1	#10	6000	0:00:07	14.705	(-6.61, 0.38)			
SA	Parabolic	2	1	#11	6000	0:00:07	14.951	(0.34, 5.78)			
SA	Parabolic	2	1	#12	6000	0:00:07	14.717	(-2.31, 3.93)			
SA	Parabolic	2	1	#13	6000	0:00:07	14.926	(0.04, 3.33)			
SA	Parabolic	2	1	#14	6000	0:00:06	14.957	(-4.77, 4.70)			
SA	Parabolic	2	1	#15	6000	0:00:07	14.681	(-1.65, -2.88)			
SA	Parabolic	2	2	#1	6000	0:00:07	18.563	(-9.18, -4.94)	18.182	0.711	25.176
SA	Parabolic	2	2	#2	6000	0:00:07	17.886	(3.93, -4.17)			
SA	Parabolic	2	2	#3	6000	0:00:07	18.849	(5.29, 2.52)			
SA	Parabolic	2	2	#4	6000	0:00:07	17.882	(-2.28, 4.72)			
SA	Parabolic	2	2	#5	6000	0:00:07	19.308	(-6.39, 0.46)			
SA	Parabolic	2	2	#6	6000	0:00:07	18.578	(-5.71, -2.63)			
SA	Parabolic	2	2	#7	6000	0:00:07	18.993	(-4.94, -0.04)			
SA	Parabolic	2	2	#8	6000	0:00:07	18.035	(-7.67, 8.63)			
SA	Parabolic	2	2	#9	6000	0:00:07	17.033	(6.64, 1.77)			
SA	Parabolic	2	2	#10	6000	0:00:07	16.643	(3.67, -5.85)			
SA	Parabolic	2	2	#11	6000	0:00:07	18.676	(-4.85, -0.60)			
SA	Parabolic	2	2	#12	6000	0:00:07	17.956	(2.08, 6.93)			
SA	Parabolic	2	2	#13	6000	0:00:07	17.748	(-2.48, 5.44)			
SA	Parabolic	2	2	#14	6000	0:00:07	18.296	(-0.10, -6.46)			
SA	Parabolic	2	2	#15	6000	0:00:07	18.289	(4.56, -11.37)			
SA	Parabolic	2	3	#1	6000	0:00:07	20.887	(-2.67, 3.23)	21.579	0.944	26.660
SA	Parabolic	2	3	#2	6000	0:00:07	20.404	(-3.95, -1.10)			
SA	Parabolic	2	3	#3	6000	0:00:07	21.449	(10.73, -6.04)			
SA	Parabolic	2	3	#4	6000	0:00:07	21.92	(-9.09, -2.57)			
SA	Parabolic	2	3	#5	6000	0:00:06	22.828	(5.50, -1.12)			
SA	Parabolic	2	3	#6	6000	0:00:07	22.856	(2.50, 0.05)			
SA	Parabolic	2	3	#7	6000	0:00:07	20.854	(-4.02, 0.25)			
SA	Parabolic	2	3	#8	6000	0:00:07	20.99	(7.71, -5.27)			
SA	Parabolic	2	3	#9	6000	0:00:07	21.15	(-1.21, 3.12)			
SA	Parabolic	2	3	#10	6000	0:00:07	19.934	(-6.67, -1.60)			
SA	Parabolic	2	3	#11	6000	0:00:07	22.453	(6.64, 5.50)			
SA	Parabolic	2	3	#12	6000	0:00:07	23.047	(-3.31, 7.52)			
SA	Parabolic	2	3	#13	6000	0:00:07	21.637	(-10.61, -10.28)			
SA	Parabolic	2	3	#14	6000	0:00:07	21.097	(0.66, -7.19)			
SA	Parabolic	2	3	#15	6000	0:00:07	22.185	(5.42, -9.34)			
SA	Shekel	2	0	#1	6000	0:00:03	18.763	(5.87, -6.69)	18.809	0.145	25.487
SA	Shekel	2	0	#2	6000	0:00:04	18.944	(5.93, -7.07)			
SA	Shekel	2	0	#3	6000	0:00:03	18.918	(5.81, -6.97)			
SA	Shekel	2	0	#4	6000	0:00:03	18.63	(5.60, -6.98)			
SA	Shekel	2	0	#5	6000	0:00:03	18.847	(5.74, -6.97)			
SA	Shekel	2	0	#6	6000	0:00:04	18.974	(5.96, -7.01)			
SA	Shekel	2	0	#7	6000	0:00:03	18.664	(6.30, -6.93)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Shekel	2	0	#8	6000	0:00:03	18.974	(6.01, -6.95)			
SA	Shekel	2	0	#9	6000	0:00:03	18.846	(6.18, -6.99)			
SA	Shekel	2	0	#10	6000	0:00:04	18.853	(6.08, -6.78)			
SA	Shekel	2	0	#11	6000	0:00:03	18.976	(5.96, -7.00)			
SA	Shekel	2	0	#12	6000	0:00:03	18.582	(6.07, -6.59)			
SA	Shekel	2	0	#13	6000	0:00:03	18.577	(6.29, -6.76)			
SA	Shekel	2	0	#14	6000	0:00:04	18.879	(6.05, -7.13)			
SA	Shekel	2	0	#15	6000	0:00:03	18.709	(5.75, -6.72)			
SA	Shekel	2	1	#1	6000	0:00:07	20.021	(6.26, -7.04)	19.722	0.744	25.884
SA	Shekel	2	1	#2	6000	0:00:07	19.909	(6.12, -7.35)			
SA	Shekel	2	1	#3	6000	0:00:07	18.35	(5.35, -7.89)			
SA	Shekel	2	1	#4	6000	0:00:07	19.274	(5.62, -6.99)			
SA	Shekel	2	1	#5	6000	0:00:07	19.463	(6.07, -6.58)			
SA	Shekel	2	1	#6	6000	0:00:08	19.476	(5.49, -7.40)			
SA	Shekel	2	1	#7	6000	0:00:07	19.856	(6.08, -6.78)			
SA	Shekel	2	1	#8	6000	0:00:07	20.353	(5.49, -7.27)			
SA	Shekel	2	1	#9	6000	0:00:07	18.879	(6.47, -6.33)			
SA	Shekel	2	1	#10	6000	0:00:07	19.637	(6.29, -7.10)			
SA	Shekel	2	1	#11	6000	0:00:07	20.565	(5.65, -6.96)			
SA	Shekel	2	1	#12	6000	0:00:07	19.573	(5.51, -6.95)			
SA	Shekel	2	1	#13	6000	0:00:07	21.566	(5.98, -6.42)			
SA	Shekel	2	1	#14	6000	0:00:07	19.514	(6.20, -7.26)			
SA	Shekel	2	1	#15	6000	0:00:07	19.395	(5.80, -6.66)			
SA	Shekel	2	2	#1	6000	0:00:07	20.476	(5.74, -6.82)	21.773	1.025	26.737
SA	Shekel	2	2	#2	6000	0:00:07	21.141	(5.48, -7.48)			
SA	Shekel	2	2	#3	6000	0:00:07	20.841	(6.06, -7.26)			
SA	Shekel	2	2	#4	6000	0:00:07	20.607	(6.06, -7.54)			
SA	Shekel	2	2	#5	6000	0:00:07	21.969	(5.76, -6.94)			
SA	Shekel	2	2	#6	6000	0:00:07	22.08	(5.65, -6.56)			
SA	Shekel	2	2	#7	6000	0:00:07	22.543	(6.01, -7.07)			
SA	Shekel	2	2	#8	6000	0:00:07	23.647	(6.24, -6.77)			
SA	Shekel	2	2	#9	6000	0:00:08	21.478	(5.78, -7.26)			
SA	Shekel	2	2	#10	6000	0:00:07	20.195	(5.55, -6.35)			
SA	Shekel	2	2	#11	6000	0:00:07	21.613	(5.31, -6.87)			
SA	Shekel	2	2	#12	6000	0:00:07	22.466	(5.09, -6.74)			
SA	Shekel	2	2	#13	6000	0:00:07	22.06	(5.84, -6.15)			
SA	Shekel	2	2	#14	6000	0:00:07	23.487	(4.93, -7.35)			
SA	Shekel	2	2	#15	6000	0:00:07	21.996	(6.02, -6.88)			
SA	Shekel	2	3	#1	6000	0:00:07	22.899	(5.48, -6.58)	22.829	1.361	27.129
SA	Shekel	2	3	#2	6000	0:00:07	22.407	(5.18, -6.61)			
SA	Shekel	2	3	#3	6000	0:00:08	22.125	(6.24, -7.43)			
SA	Shekel	2	3	#4	6000	0:00:07	22.232	(6.97, -6.89)			
SA	Shekel	2	3	#5	6000	0:00:07	23.832	(6.75, -6.66)			
SA	Shekel	2	3	#6	6000	0:00:07	25.499	(6.45, -5.88)			
SA	Shekel	2	3	#7	6000	0:00:07	21.346	(5.56, -5.92)			
SA	Shekel	2	3	#8	6000	0:00:07	22.022	(4.40, -7.36)			
SA	Shekel	2	3	#9	6000	0:00:07	25.077	(6.07, -7.29)			
SA	Shekel	2	3	#10	6000	0:00:07	21.727	(3.65, 3.74)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Shekel	2	3	#11	6000	0:00:07	23.616	(6.28, -7.51)			
SA	Shekel	2	3	#12	6000	0:00:07	24.541	(7.22, -6.61)			
SA	Shekel	2	3	#13	6000	0:00:07	21.796	(6.48, -7.46)			
SA	Shekel	2	3	#14	6000	0:00:07	21.274	(5.65, -6.54)			
SA	Shekel	2	3	#15	6000	0:00:07	22.039	(5.67, -6.52)			
SA	Rastrigin	2	0	#1	6000	0:00:03	91.832	(-2.01, -1.94)	95.519	1.602	39.599
SA	Rastrigin	2	0	#2	6000	0:00:03	93.778	(2.13, 0.02)			
SA	Rastrigin	2	0	#3	6000	0:00:03	96.695	(0.18, 0.04)			
SA	Rastrigin	2	0	#4	6000	0:00:03	96.844	(-0.01, -0.18)			
SA	Rastrigin	2	0	#5	6000	0:00:03	96	(0.00, 2.00)			
SA	Rastrigin	2	0	#6	6000	0:00:03	94.759	(1.89, -0.07)			
SA	Rastrigin	2	0	#7	6000	0:00:03	96.001	(0.00, 1.96)			
SA	Rastrigin	2	0	#8	6000	0:00:04	94.452	(0.04, -2.10)			
SA	Rastrigin	2	0	#9	6000	0:00:03	98.448	(-0.11, 0.06)			
SA	Rastrigin	2	0	#10	6000	0:00:03	94.875	(0.07, -0.22)			
SA	Rastrigin	2	0	#11	6000	0:00:03	94.701	(-0.05, 0.23)			
SA	Rastrigin	2	0	#12	6000	0:00:03	94.805	(0.10, 1.93)			
SA	Rastrigin	2	0	#13	6000	0:00:03	97.186	(0.00, -0.17)			
SA	Rastrigin	2	0	#14	6000	0:00:03	96	(-1.98, 0.02)			
SA	Rastrigin	2	0	#15	6000	0:00:03	96.416	(0.19, -0.03)			
SA	Rastrigin	2	1	#1	6000	0:00:06	95.653	(-0.01, 1.88)	96.358	2.038	39.674
SA	Rastrigin	2	1	#2	6000	0:00:06	98.887	(-0.11, -0.10)			
SA	Rastrigin	2	1	#3	6000	0:00:07	95.848	(0.07, -1.88)			
SA	Rastrigin	2	1	#4	6000	0:00:07	94.732	(-0.11, 1.93)			
SA	Rastrigin	2	1	#5	6000	0:00:07	93.774	(0.03, 1.94)			
SA	Rastrigin	2	1	#6	6000	0:00:07	96.598	(-0.07, 0.08)			
SA	Rastrigin	2	1	#7	6000	0:00:07	97.495	(-0.09, -0.13)			
SA	Rastrigin	2	1	#8	6000	0:00:07	99.554	(-0.08, -0.14)			
SA	Rastrigin	2	1	#9	6000	0:00:07	97.716	(-0.14, -0.04)			
SA	Rastrigin	2	1	#10	6000	0:00:07	99.682	(-0.07, 0.02)			
SA	Rastrigin	2	1	#11	6000	0:00:07	94.697	(0.01, -2.11)			
SA	Rastrigin	2	1	#12	6000	0:00:07	92.865	(0.08, 0.27)			
SA	Rastrigin	2	1	#13	6000	0:00:07	95.045	(1.91, 0.17)			
SA	Rastrigin	2	1	#14	6000	0:00:07	96.928	(-1.97, 0.08)			
SA	Rastrigin	2	1	#15	6000	0:00:07	95.895	(0.15, -0.11)			
SA	Rastrigin	2	2	#1	6000	0:00:07	99.684	(-0.12, 1.91)	97.160	2.399	39.742
SA	Rastrigin	2	2	#2	6000	0:00:07	94.248	(-2.05, -2.08)			
SA	Rastrigin	2	2	#3	6000	0:00:07	94.239	(-0.05, 2.04)			
SA	Rastrigin	2	2	#4	6000	0:00:07	97.433	(-2.01, 0.00)			
SA	Rastrigin	2	2	#5	6000	0:00:07	99.175	(-0.04, -0.07)			
SA	Rastrigin	2	2	#6	6000	0:00:07	98.018	(0.09, -0.04)			
SA	Rastrigin	2	2	#7	6000	0:00:07	100.316	(-0.09, 0.01)			
SA	Rastrigin	2	2	#8	6000	0:00:07	98.228	(-0.06, 1.93)			
SA	Rastrigin	2	2	#9	6000	0:00:07	94.73	(-2.04, -0.04)			
SA	Rastrigin	2	2	#10	6000	0:00:07	96.642	(2.10, -0.02)			
SA	Rastrigin	2	2	#11	6000	0:00:07	95.325	(0.10, -2.12)			
SA	Rastrigin	2	2	#12	6000	0:00:06	93.858	(0.09, -2.08)			
SA	Rastrigin	2	2	#13	6000	0:00:07	101.552	(0.08, 0.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rastrigin	2	2	#14	6000	0:00:07	97.811	(0.12, -0.02)			
SA	Rastrigin	2	2	#15	6000	0:00:07	96.14	(-0.02, 1.81)			
SA	Rastrigin	2	3	#1	6000	0:00:07	100.916	(-2.10, -0.02)	98.720	2.568	39.882
SA	Rastrigin	2	3	#2	6000	0:00:07	103.907	(0.02, -0.11)			
SA	Rastrigin	2	3	#3	6000	0:00:07	98.332	(-0.06, -1.96)			
SA	Rastrigin	2	3	#4	6000	0:00:07	100.687	(1.99, 0.12)			
SA	Rastrigin	2	3	#5	6000	0:00:07	99.672	(-0.07, 0.16)			
SA	Rastrigin	2	3	#6	6000	0:00:07	99.836	(0.07, -0.23)			
SA	Rastrigin	2	3	#7	6000	0:00:07	100.157	(-0.17, -0.06)			
SA	Rastrigin	2	3	#8	6000	0:00:07	99.609	(-0.06, -0.16)			
SA	Rastrigin	2	3	#9	6000	0:00:07	95.088	(1.94, -0.18)			
SA	Rastrigin	2	3	#10	6000	0:00:07	98.161	(-0.14, -0.14)			
SA	Rastrigin	2	3	#11	6000	0:00:07	98.84	(-0.22, 2.07)			
SA	Rastrigin	2	3	#12	6000	0:00:07	97.296	(-0.12, -0.11)			
SA	Rastrigin	2	3	#13	6000	0:00:07	96.914	(0.11, 0.19)			
SA	Rastrigin	2	3	#14	6000	0:00:07	98.384	(0.17, 0.10)			
SA	Rastrigin	2	3	#15	6000	0:00:06	93.003	(-1.71, 0.01)			
SA	Rosenbrock	2	0	#1	6000	0:00:03	80	(0.10, 0.15)	80.000	0.001	38.062
SA	Rosenbrock	2	0	#2	6000	0:00:03	80	(0.02, 0.03)			
SA	Rosenbrock	2	0	#3	6000	0:00:03	80	(0.03, 0.04)			
SA	Rosenbrock	2	0	#4	6000	0:00:03	80	(-0.07, 0.12)			
SA	Rosenbrock	2	0	#5	6000	0:00:04	80	(0.17, 0.07)			
SA	Rosenbrock	2	0	#6	6000	0:00:03	80	(-0.15, -0.12)			
SA	Rosenbrock	2	0	#7	6000	0:00:03	80	(0.05, -0.14)			
SA	Rosenbrock	2	0	#8	6000	0:00:03	80	(0.07, 0.12)			
SA	Rosenbrock	2	0	#9	6000	0:00:03	79.998	(-0.36, 0.13)			
SA	Rosenbrock	2	0	#10	6000	0:00:03	80	(-0.16, -0.09)			
SA	Rosenbrock	2	0	#11	6000	0:00:04	79.999	(-0.23, 0.11)			
SA	Rosenbrock	2	0	#12	6000	0:00:03	80	(0.04, -0.13)			
SA	Rosenbrock	2	0	#13	6000	0:00:03	80	(0.03, -0.05)			
SA	Rosenbrock	2	0	#14	6000	0:00:03	79.998	(-0.23, 0.32)			
SA	Rosenbrock	2	0	#15	6000	0:00:03	79.999	(0.18, -0.28)			
SA	Rosenbrock	2	1	#1	6000	0:00:07	83.041	(-1.87, -2.56)	82.872	0.305	38.368
SA	Rosenbrock	2	1	#2	6000	0:00:07	82.559	(-1.33, 2.48)			
SA	Rosenbrock	2	1	#3	6000	0:00:07	82.368	(2.55, -2.91)			
SA	Rosenbrock	2	1	#4	6000	0:00:07	82.698	(2.54, 4.15)			
SA	Rosenbrock	2	1	#5	6000	0:00:07	83.536	(-0.21, -0.06)			
SA	Rosenbrock	2	1	#6	6000	0:00:07	82.721	(-1.85, -8.01)			
SA	Rosenbrock	2	1	#7	6000	0:00:07	83.213	(-0.58, -7.00)			
SA	Rosenbrock	2	1	#8	6000	0:00:07	82.996	(-0.16, 1.12)			
SA	Rosenbrock	2	1	#9	6000	0:00:07	83.016	(-3.88, -4.96)			
SA	Rosenbrock	2	1	#10	6000	0:00:07	82.542	(1.45, 1.23)			
SA	Rosenbrock	2	1	#11	6000	0:00:07	82.541	(-0.84, 3.42)			
SA	Rosenbrock	2	1	#12	6000	0:00:07	82.959	(1.29, 0.62)			
SA	Rosenbrock	2	1	#13	6000	0:00:07	83.038	(-1.28, -4.70)			
SA	Rosenbrock	2	1	#14	6000	0:00:07	82.842	(1.86, -2.32)			
SA	Rosenbrock	2	1	#15	6000	0:00:07	83.004	(-2.83, -4.04)			
SA	Rosenbrock	2	2	#1	6000	0:00:07	87.234	(3.28, -3.21)	85.988	0.665	38.688

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rosenbrock	2	2	#2	6000	0:00:07	86.968	(3.29, -6.13)			
SA	Rosenbrock	2	2	#3	6000	0:00:07	85.559	(1.15, -0.41)			
SA	Rosenbrock	2	2	#4	6000	0:00:07	86.582	(-1.09, 0.44)			
SA	Rosenbrock	2	2	#5	6000	0:00:07	85.328	(1.00, 11.46)			
SA	Rosenbrock	2	2	#6	6000	0:00:07	85.866	(5.88, -0.02)			
SA	Rosenbrock	2	2	#7	6000	0:00:07	85.158	(4.29, 5.70)			
SA	Rosenbrock	2	2	#8	6000	0:00:07	86.751	(-1.93, -7.06)			
SA	Rosenbrock	2	2	#9	6000	0:00:07	86.448	(-5.22, -7.55)			
SA	Rosenbrock	2	2	#10	6000	0:00:07	85.944	(-1.06, -10.87)			
SA	Rosenbrock	2	2	#11	6000	0:00:07	85.668	(3.72, 5.72)			
SA	Rosenbrock	2	2	#12	6000	0:00:07	85.355	(-3.02, -0.41)			
SA	Rosenbrock	2	2	#13	6000	0:00:07	85.987	(-0.71, -4.71)			
SA	Rosenbrock	2	2	#14	6000	0:00:07	85.811	(-1.42, 3.44)			
SA	Rosenbrock	2	2	#15	6000	0:00:07	85.167	(4.86, -18.50)			
SA	Rosenbrock	2	3	#1	6000	0:00:07	88.744	(-1.32, -2.96)	89.116	0.820	38.998
SA	Rosenbrock	2	3	#2	6000	0:00:07	88.429	(-0.10, -0.62)			
SA	Rosenbrock	2	3	#3	6000	0:00:07	88.758	(-3.58, -12.09)			
SA	Rosenbrock	2	3	#4	6000	0:00:07	88.844	(1.80, -6.82)			
SA	Rosenbrock	2	3	#5	6000	0:00:07	88.254	(3.48, 1.92)			
SA	Rosenbrock	2	3	#6	6000	0:00:07	89.815	(0.01, -9.55)			
SA	Rosenbrock	2	3	#7	6000	0:00:07	88.555	(-4.78, 0.98)			
SA	Rosenbrock	2	3	#8	6000	0:00:07	88.693	(2.89, -10.95)			
SA	Rosenbrock	2	3	#9	6000	0:00:07	90.571	(-3.95, -9.86)			
SA	Rosenbrock	2	3	#10	6000	0:00:07	88.385	(-1.83, 4.47)			
SA	Rosenbrock	2	3	#11	6000	0:00:07	89.726	(0.07, -1.72)			
SA	Rosenbrock	2	3	#12	6000	0:00:07	90.727	(1.13, 8.77)			
SA	Rosenbrock	2	3	#13	6000	0:00:07	89.728	(1.51, 9.87)			
SA	Rosenbrock	2	3	#14	6000	0:00:07	88.196	(-2.23, -12.43)			
SA	Rosenbrock	2	3	#15	6000	0:00:07	89.31	(-1.40, 4.23)			
SA	Styblinski	2	0	#1	6000	0:00:03	351.766	(-2.72, -2.65)	351.571	1.467	50.920
SA	Styblinski	2	0	#2	6000	0:00:04	351.854	(-2.76, -3.15)			
SA	Styblinski	2	0	#3	6000	0:00:03	352.781	(-3.04, -2.79)			
SA	Styblinski	2	0	#4	6000	0:00:03	351.751	(-2.60, -2.81)			
SA	Styblinski	2	0	#5	6000	0:00:03	353.232	(-2.86, -2.84)			
SA	Styblinski	2	0	#6	6000	0:00:03	349.277	(-2.62, -2.47)			
SA	Styblinski	2	0	#7	6000	0:00:03	347.614	(-3.38, -3.15)			
SA	Styblinski	2	0	#8	6000	0:00:04	350.662	(-2.57, -3.13)			
SA	Styblinski	2	0	#9	6000	0:00:03	352.461	(-2.70, -3.01)			
SA	Styblinski	2	0	#10	6000	0:00:03	351.807	(-3.18, -2.97)			
SA	Styblinski	2	0	#11	6000	0:00:03	351.773	(-2.91, -3.19)			
SA	Styblinski	2	0	#12	6000	0:00:03	352.738	(-2.94, -3.08)			
SA	Styblinski	2	0	#13	6000	0:00:03	352.075	(-2.67, -2.75)			
SA	Styblinski	2	0	#14	6000	0:00:03	352.688	(-3.09, -2.92)			
SA	Styblinski	2	0	#15	6000	0:00:04	351.081	(-2.76, -2.55)			
SA	Styblinski	2	1	#1	6000	0:00:07	352.614	(-2.92, -3.16)	351.393	2.154	50.915
SA	Styblinski	2	1	#2	6000	0:00:07	353.013	(-3.21, -2.62)			
SA	Styblinski	2	1	#3	6000	0:00:07	351.582	(-2.68, -2.91)			
SA	Styblinski	2	1	#4	6000	0:00:07	352.318	(-2.97, -2.56)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Styblinski	2	1	#5	6000	0:00:06	348.633	(-2.72, -3.26)			
SA	Styblinski	2	1	#6	6000	0:00:07	353.791	(-2.76, -2.72)			
SA	Styblinski	2	1	#7	6000	0:00:07	349.62	(-3.05, -2.44)			
SA	Styblinski	2	1	#8	6000	0:00:07	355.139	(-2.88, -3.11)			
SA	Styblinski	2	1	#9	6000	0:00:07	347.695	(-2.30, -2.83)			
SA	Styblinski	2	1	#10	6000	0:00:07	352.666	(-2.82, -2.70)			
SA	Styblinski	2	1	#11	6000	0:00:07	348.507	(-2.95, -3.42)			
SA	Styblinski	2	1	#12	6000	0:00:07	353.099	(-2.89, -2.82)			
SA	Styblinski	2	1	#13	6000	0:00:07	349.785	(-2.58, -2.95)			
SA	Styblinski	2	1	#14	6000	0:00:07	350.878	(-2.52, -2.84)			
SA	Styblinski	2	1	#15	6000	0:00:07	351.549	(-2.63, -2.87)			
SA	Styblinski	2	2	#1	6000	0:00:07	355.186	(-3.06, -2.87)	352.916	2.043	50.953
SA	Styblinski	2	2	#2	6000	0:00:07	357.345	(-2.71, -2.90)			
SA	Styblinski	2	2	#3	6000	0:00:07	354.189	(-2.64, -3.17)			
SA	Styblinski	2	2	#4	6000	0:00:07	351.165	(-3.15, -2.62)			
SA	Styblinski	2	2	#5	6000	0:00:07	352.866	(-3.11, -3.13)			
SA	Styblinski	2	2	#6	6000	0:00:07	349.268	(-2.46, -2.66)			
SA	Styblinski	2	2	#7	6000	0:00:07	354.701	(-3.25, -2.81)			
SA	Styblinski	2	2	#8	6000	0:00:07	354.978	(-3.00, -3.10)			
SA	Styblinski	2	2	#9	6000	0:00:07	352.518	(-2.90, -2.97)			
SA	Styblinski	2	2	#10	6000	0:00:06	352.536	(-3.34, -3.16)			
SA	Styblinski	2	2	#11	6000	0:00:07	352.358	(-2.95, -2.62)			
SA	Styblinski	2	2	#12	6000	0:00:07	351.685	(-3.42, -3.02)			
SA	Styblinski	2	2	#13	6000	0:00:07	351.808	(-2.79, -2.90)			
SA	Styblinski	2	2	#14	6000	0:00:07	352.345	(-3.18, -2.72)			
SA	Styblinski	2	2	#15	6000	0:00:07	350.786	(-2.93, -2.91)			
SA	Styblinski	2	3	#1	6000	0:00:07	353.85	(-2.94, -2.81)	353.536	3.353	50.968
SA	Styblinski	2	3	#2	6000	0:00:07	353.384	(-2.43, -2.93)			
SA	Styblinski	2	3	#3	6000	0:00:07	354.108	(-3.28, -2.61)			
SA	Styblinski	2	3	#4	6000	0:00:07	354.069	(-3.00, -2.96)			
SA	Styblinski	2	3	#5	6000	0:00:07	356.903	(-2.40, -2.97)			
SA	Styblinski	2	3	#6	6000	0:00:07	357.479	(-2.85, -2.75)			
SA	Styblinski	2	3	#7	6000	0:00:07	356.2	(-2.68, -2.64)			
SA	Styblinski	2	3	#8	6000	0:00:07	352.496	(-3.08, -2.60)			
SA	Styblinski	2	3	#9	6000	0:00:07	350.628	(-3.22, -2.74)			
SA	Styblinski	2	3	#10	6000	0:00:07	352.923	(-3.16, -2.37)			
SA	Styblinski	2	3	#11	6000	0:00:07	353.351	(-2.98, -2.66)			
SA	Styblinski	2	3	#12	6000	0:00:07	352.548	(-2.61, -3.25)			
SA	Styblinski	2	3	#13	6000	0:00:07	357.759	(-3.01, -3.33)			
SA	Styblinski	2	3	#14	6000	0:00:07	343.843	(2.93, -2.84)			
SA	Styblinski	2	3	#15	6000	0:00:07	353.505	(-2.88, -2.76)			
SA	Parabolic	3	0	#1	6000	0:00:04	11.989	(0.18, 1.04, -0.05)	11.988	0.005	21.575
SA	Parabolic	3	0	#2	6000	0:00:05	11.995	(0.11, 0.18, 0.70)			
SA	Parabolic	3	0	#3	6000	0:00:04	11.993	(0.12, -0.63, 0.50)			
SA	Parabolic	3	0	#4	6000	0:00:05	11.985	(0.85, 0.56, -0.68)			
SA	Parabolic	3	0	#5	6000	0:00:05	11.982	(1.33, 0.10, 0.24)			
SA	Parabolic	3	0	#6	6000	0:00:04	11.988	(0.21, -1.09, -0.02)			
SA	Parabolic	3	0	#7	6000	0:00:05	11.995	(0.13, 0.66, 0.11)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Parabolic	3	0	#8	6000	0:00:04	11.994	(-0.14, 0.71, -0.19)			
SA	Parabolic	3	0	#9	6000	0:00:05	11.98	(-0.28, -0.14, -1.37)			
SA	Parabolic	3	0	#10	6000	0:00:05	11.987	(-0.32, 1.01, -0.38)			
SA	Parabolic	3	0	#11	6000	0:00:04	11.99	(-0.03, 0.64, -0.79)			
SA	Parabolic	3	0	#12	6000	0:00:05	11.977	(1.45, -0.47, 0.07)			
SA	Parabolic	3	0	#13	6000	0:00:04	11.986	(-0.42, -1.04, 0.33)			
SA	Parabolic	3	0	#14	6000	0:00:05	11.985	(-1.12, 0.45, 0.11)			
SA	Parabolic	3	0	#15	6000	0:00:04	11.991	(0.07, -0.91, 0.14)			
SA	Parabolic	3	1	#1	6000	0:00:08	14.241	(0.62, -0.36, -3.10)	14.303	0.292	23.104
SA	Parabolic	3	1	#2	6000	0:00:08	14.115	(6.08, 5.20, -0.65)			
SA	Parabolic	3	1	#3	6000	0:00:09	14.102	(-6.44, 4.41, -0.71)			
SA	Parabolic	3	1	#4	6000	0:00:08	14.654	(-3.54, 2.13, 1.87)			
SA	Parabolic	3	1	#5	6000	0:00:09	14.58	(-7.45, 1.72, -2.94)			
SA	Parabolic	3	1	#6	6000	0:00:08	14.624	(-4.43, 5.95, 1.96)			
SA	Parabolic	3	1	#7	6000	0:00:09	14.433	(2.24, 1.11, 0.92)			
SA	Parabolic	3	1	#8	6000	0:00:08	14.21	(-0.57, 1.35, -0.22)			
SA	Parabolic	3	1	#9	6000	0:00:08	13.992	(4.39, -5.59, -3.21)			
SA	Parabolic	3	1	#10	6000	0:00:09	14.773	(0.19, 4.57, 1.11)			
SA	Parabolic	3	1	#11	6000	0:00:08	14.106	(-0.78, 1.60, -4.80)			
SA	Parabolic	3	1	#12	6000	0:00:09	14.631	(-1.00, -4.35, 0.33)			
SA	Parabolic	3	1	#13	6000	0:00:08	14.178	(1.48, -1.08, 0.93)			
SA	Parabolic	3	1	#14	6000	0:00:09	13.775	(1.16, 3.44, 1.72)			
SA	Parabolic	3	1	#15	6000	0:00:08	14.137	(-6.78, -4.36, -0.06)			
SA	Parabolic	3	2	#1	6000	0:00:09	17.692	(-0.18, -1.25, 1.93)	17.596	0.851	24.885
SA	Parabolic	3	2	#2	6000	0:00:08	17.561	(-5.82, 2.16, -0.27)			
SA	Parabolic	3	2	#3	6000	0:00:08	16.717	(-2.84, -5.57, -8.26)			
SA	Parabolic	3	2	#4	6000	0:00:09	17.985	(-1.53, -2.08, 4.01)			
SA	Parabolic	3	2	#5	6000	0:00:08	17.228	(-0.71, -4.74, 5.08)			
SA	Parabolic	3	2	#6	6000	0:00:09	16.919	(11.88, 0.64, 4.51)			
SA	Parabolic	3	2	#7	6000	0:00:08	17.435	(2.83, 10.22, -1.53)			
SA	Parabolic	3	2	#8	6000	0:00:08	17.773	(2.36, -0.50, -7.96)			
SA	Parabolic	3	2	#9	6000	0:00:09	16.647	(-8.96, 2.04, -3.83)			
SA	Parabolic	3	2	#10	6000	0:00:08	17.529	(6.60, -1.94, -7.45)			
SA	Parabolic	3	2	#11	6000	0:00:09	17.091	(-3.45, 1.11, 4.65)			
SA	Parabolic	3	2	#12	6000	0:00:08	19.952	(5.20, -1.46, -0.27)			
SA	Parabolic	3	2	#13	6000	0:00:09	17.251	(8.70, -7.17, -2.53)			
SA	Parabolic	3	2	#14	6000	0:00:08	17.283	(-0.42, 5.05, -16.28)			
SA	Parabolic	3	2	#15	6000	0:00:08	18.875	(-0.13, 1.71, 6.23)			
SA	Parabolic	3	3	#1	6000	0:00:08	19.784	(-0.42, 1.07, 0.14)	20.967	1.399	26.391
SA	Parabolic	3	3	#2	6000	0:00:08	19.993	(-6.17, 3.87, 0.09)			
SA	Parabolic	3	3	#3	6000	0:00:09	20.58	(-5.04, -0.80, -7.08)			
SA	Parabolic	3	3	#4	6000	0:00:08	20.027	(3.79, -2.15, 1.63)			
SA	Parabolic	3	3	#5	6000	0:00:08	20.064	(-10.36, 9.75, -5.00)			
SA	Parabolic	3	3	#6	6000	0:00:08	20.931	(3.66, -4.39, 8.72)			
SA	Parabolic	3	3	#7	6000	0:00:08	19.462	(-1.45, -9.00, 2.32)			
SA	Parabolic	3	3	#8	6000	0:00:09	19.099	(12.83, -4.50, -0.69)			
SA	Parabolic	3	3	#9	6000	0:00:08	20.972	(12.02, -1.85, -1.76)			
SA	Parabolic	3	3	#10	6000	0:00:08	23.176	(-1.73, -13.34, -1.61)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Parabolic	3	3	#11	6000	0:00:09	21.376	(3.41, 9.44, 7.98)			
SA	Parabolic	3	3	#12	6000	0:00:08	23.185	(-10.26, -1.74, -1.92)			
SA	Parabolic	3	3	#13	6000	0:00:09	20.244	(-5.44, 13.89, 3.38)			
SA	Parabolic	3	3	#14	6000	0:00:08	23.133	(5.93, -3.10, -1.97)			
SA	Parabolic	3	3	#15	6000	0:00:08	22.475	(-3.52, -2.44, 6.63)			
SA	Shekel	3	0	#1	6000	0:00:04	17.092	(6.64, -6.62, -2.25)	15.152	2.013	23.384
SA	Shekel	3	0	#2	6000	0:00:05	13.216	(5.03, -8.13, -1.19)			
SA	Shekel	3	0	#3	6000	0:00:05	11.935	(3.26, 6.66, -1.49)			
SA	Shekel	3	0	#4	6000	0:00:05	15.667	(5.14, -6.40, -2.61)			
SA	Shekel	3	0	#5	6000	0:00:05	14.634	(6.72, -6.55, -0.93)			
SA	Shekel	3	0	#6	6000	0:00:04	17.876	(5.43, -6.95, -1.89)			
SA	Shekel	3	0	#7	6000	0:00:05	14.492	(6.25, -5.60, -2.36)			
SA	Shekel	3	0	#8	6000	0:00:05	17.302	(6.57, -7.39, -2.02)			
SA	Shekel	3	0	#9	6000	0:00:05	15.327	(6.36, -6.48, -3.07)			
SA	Shekel	3	0	#10	6000	0:00:04	11.561	(3.93, -7.63, -1.84)			
SA	Shekel	3	0	#11	6000	0:00:05	17.095	(6.16, -7.07, -2.77)			
SA	Shekel	3	0	#12	6000	0:00:05	13.581	(6.48, -8.45, -2.33)			
SA	Shekel	3	0	#13	6000	0:00:05	13.966	(7.21, -6.95, -2.89)			
SA	Shekel	3	0	#14	6000	0:00:05	16.623	(6.81, -7.32, -2.08)			
SA	Shekel	3	0	#15	6000	0:00:04	16.911	(5.46, -7.47, -1.56)			
SA	Shekel	3	1	#1	6000	0:00:08	16.691	(5.36, -6.50, -1.45)	15.301	1.322	23.610
SA	Shekel	3	1	#2	6000	0:00:09	14.908	(6.98, -7.61, -1.89)			
SA	Shekel	3	1	#3	6000	0:00:08	16.383	(6.55, -6.16, -1.72)			
SA	Shekel	3	1	#4	6000	0:00:09	16.262	(5.09, -7.27, -1.95)			
SA	Shekel	3	1	#5	6000	0:00:09	14.62	(4.82, -6.10, -1.51)			
SA	Shekel	3	1	#6	6000	0:00:08	13.393	(5.06, -6.63, -0.53)			
SA	Shekel	3	1	#7	6000	0:00:09	13.892	(5.23, 6.07, -0.73)			
SA	Shekel	3	1	#8	6000	0:00:08	15.427	(5.52, -6.10, -2.73)			
SA	Shekel	3	1	#9	6000	0:00:09	17.117	(4.90, -6.65, -1.43)			
SA	Shekel	3	1	#10	6000	0:00:08	15.813	(6.40, -6.97, -0.54)			
SA	Shekel	3	1	#11	6000	0:00:09	13.762	(5.16, -7.13, -3.42)			
SA	Shekel	3	1	#12	6000	0:00:09	15.059	(7.43, -7.46, -1.83)			
SA	Shekel	3	1	#13	6000	0:00:08	14.804	(5.60, -7.43, -0.57)			
SA	Shekel	3	1	#14	6000	0:00:09	17.645	(6.33, -6.15, -2.28)			
SA	Shekel	3	1	#15	6000	0:00:08	13.732	(4.89, -6.55, -1.95)			
SA	Shekel	3	2	#1	6000	0:00:08	16.085	(6.48, -5.93, -2.43)	16.239	1.474	24.130
SA	Shekel	3	2	#2	6000	0:00:09	15.42	(5.60, -7.46, -2.85)			
SA	Shekel	3	2	#3	6000	0:00:08	14.086	(6.82, -8.82, -0.72)			
SA	Shekel	3	2	#4	6000	0:00:09	13.873	(4.41, -7.67, -0.82)			
SA	Shekel	3	2	#5	6000	0:00:09	16.695	(4.76, -7.40, -3.13)			
SA	Shekel	3	2	#6	6000	0:00:08	15.398	(6.78, -7.21, -2.51)			
SA	Shekel	3	2	#7	6000	0:00:09	16.971	(6.69, -7.87, -2.72)			
SA	Shekel	3	2	#8	6000	0:00:08	16.83	(4.77, -7.41, -3.22)			
SA	Shekel	3	2	#9	6000	0:00:09	18.124	(4.31, 6.06, -2.34)			
SA	Shekel	3	2	#10	6000	0:00:08	15.601	(4.67, -7.53, -1.57)			
SA	Shekel	3	2	#11	6000	0:00:09	19.501	(6.63, -6.71, -1.64)			
SA	Shekel	3	2	#12	6000	0:00:09	16.743	(3.64, 6.54, -1.71)			
SA	Shekel	3	2	#13	6000	0:00:08	16.701	(5.41, -8.06, -2.54)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Shekel	3	2	#14	6000	0:00:09	14.731	(5.93, -8.13, -1.78)			
SA	Shekel	3	2	#15	6000	0:00:08	16.832	(6.63, -7.74, -2.99)			
SA	Shekel	3	3	#1	6000	0:00:08	20.684	(5.45, -7.06, -1.46)	17.421	1.950	24.691
SA	Shekel	3	3	#2	6000	0:00:09	16.752	(5.55, -6.44, -3.53)			
SA	Shekel	3	3	#3	6000	0:00:08	16.014	(3.31, 8.24, -1.44)			
SA	Shekel	3	3	#4	6000	0:00:09	18.152	(3.69, 6.42, -1.45)			
SA	Shekel	3	3	#5	6000	0:00:09	15.898	(4.80, -6.00, -1.95)			
SA	Shekel	3	3	#6	6000	0:00:08	15.569	(3.96, 8.80, -0.64)			
SA	Shekel	3	3	#7	6000	0:00:09	17.714	(2.80, 2.68, -1.06)			
SA	Shekel	3	3	#8	6000	0:00:08	17.464	(5.74, 5.88, -1.64)			
SA	Shekel	3	3	#9	6000	0:00:09	15.615	(-7.59, -7.30, 2.37)			
SA	Shekel	3	3	#10	6000	0:00:08	15.876	(4.22, 2.35, -4.30)			
SA	Shekel	3	3	#11	6000	0:00:09	15.121	(2.64, 7.70, -2.15)			
SA	Shekel	3	3	#12	6000	0:00:09	20.091	(5.22, -6.63, -1.91)			
SA	Shekel	3	3	#13	6000	0:00:08	19.752	(5.51, -7.19, -1.19)			
SA	Shekel	3	3	#14	6000	0:00:09	20.394	(5.24, -6.64, -2.00)			
SA	Shekel	3	3	#15	6000	0:00:08	16.221	(6.16, 4.03, -1.81)			
SA	Rastrigin	3	0	#1	6000	0:00:04	107.916	(1.79, 1.95, -0.08)	101.290	7.353	40.053
SA	Rastrigin	3	0	#2	6000	0:00:05	96.52	(0.16, -3.99, 0.23)			
SA	Rastrigin	3	0	#3	6000	0:00:04	92.686	(-1.64, -0.06, 0.38)			
SA	Rastrigin	3	0	#4	6000	0:00:05	112.25	(0.08, -0.11, 0.25)			
SA	Rastrigin	3	0	#5	6000	0:00:05	109.343	(1.84, 0.22, -0.04)			
SA	Rastrigin	3	0	#6	6000	0:00:04	114.954	(-0.22, -0.05, 0.04)			
SA	Rastrigin	3	0	#7	6000	0:00:05	97.359	(-3.97, -1.90, -0.15)			
SA	Rastrigin	3	0	#8	6000	0:00:04	94.627	(-0.04, -4.11, -2.16)			
SA	Rastrigin	3	0	#9	6000	0:00:05	101.54	(-1.81, -0.20, -2.18)			
SA	Rastrigin	3	0	#10	6000	0:00:05	101.014	(-4.06, -0.13, 0.07)			
SA	Rastrigin	3	0	#11	6000	0:00:04	103.246	(-1.87, 0.24, -1.83)			
SA	Rastrigin	3	0	#12	6000	0:00:05	93.388	(0.53, 0.00, -2.05)			
SA	Rastrigin	3	0	#13	6000	0:00:05	103.774	(-0.15, 0.22, 0.32)			
SA	Rastrigin	3	0	#14	6000	0:00:04	99.945	(2.16, 0.10, -2.27)			
SA	Rastrigin	3	0	#15	6000	0:00:05	90.785	(-0.22, 2.47, -0.06)			
SA	Rastrigin	3	1	#1	6000	0:00:08	102.933	(-1.82, -2.15, 2.04)	98.167	7.216	39.781
SA	Rastrigin	3	1	#2	6000	0:00:09	100.323	(0.09, 0.42, 2.02)			
SA	Rastrigin	3	1	#3	6000	0:00:08	96.775	(0.34, -2.08, -0.30)			
SA	Rastrigin	3	1	#4	6000	0:00:09	88.631	(0.44, -3.94, 0.00)			
SA	Rastrigin	3	1	#5	6000	0:00:08	79.427	(-0.40, -1.70, 4.08)			
SA	Rastrigin	3	1	#6	6000	0:00:08	104.523	(1.93, -0.06, -1.70)			
SA	Rastrigin	3	1	#7	6000	0:00:09	104.566	(0.25, 2.08, -1.94)			
SA	Rastrigin	3	1	#8	6000	0:00:08	104.112	(2.16, -1.85, 1.95)			
SA	Rastrigin	3	1	#9	6000	0:00:09	103.013	(-2.12, -0.07, 2.24)			
SA	Rastrigin	3	1	#10	6000	0:00:08	98.565	(0.09, -2.23, 0.36)			
SA	Rastrigin	3	1	#11	6000	0:00:09	98.976	(1.83, -0.31, -1.80)			
SA	Rastrigin	3	1	#12	6000	0:00:08	106.293	(-0.27, 0.11, 2.05)			
SA	Rastrigin	3	1	#13	6000	0:00:08	91.541	(1.72, 0.14, 3.97)			
SA	Rastrigin	3	1	#14	6000	0:00:09	95.93	(-0.09, 2.05, 3.80)			
SA	Rastrigin	3	1	#15	6000	0:00:08	96.891	(2.40, 0.20, -0.05)			
SA	Rastrigin	3	2	#1	6000	0:00:09	106.713	(-0.15, -0.22, -2.06)	98.227	6.180	39.794

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rastrigin	3	2	#2	6000	0:00:08	96.736	(-0.32, 2.22, -0.17)			
SA	Rastrigin	3	2	#3	6000	0:00:09	90.298	(3.82, -0.28, 0.12)			
SA	Rastrigin	3	2	#4	6000	0:00:08	92.098	(-2.15, 2.16, 1.70)			
SA	Rastrigin	3	2	#5	6000	0:00:08	98.443	(-4.00, -1.87, 0.02)			
SA	Rastrigin	3	2	#6	6000	0:00:09	103.772	(1.98, 2.02, -2.15)			
SA	Rastrigin	3	2	#7	6000	0:00:08	100.503	(-4.09, 2.00, 0.04)			
SA	Rastrigin	3	2	#8	6000	0:00:09	93.217	(0.28, -2.44, -0.06)			
SA	Rastrigin	3	2	#9	6000	0:00:08	98.313	(0.08, 2.41, 0.15)			
SA	Rastrigin	3	2	#10	6000	0:00:09	99.433	(-2.01, 1.76, 0.30)			
SA	Rastrigin	3	2	#11	6000	0:00:08	104.988	(-1.84, 2.09, 1.82)			
SA	Rastrigin	3	2	#12	6000	0:00:08	100.387	(-1.56, -0.11, -0.05)			
SA	Rastrigin	3	2	#13	6000	0:00:09	83.884	(-2.16, 2.41, -2.24)			
SA	Rastrigin	3	2	#14	6000	0:00:08	100.294	(-0.27, -0.30, 1.95)			
SA	Rastrigin	3	2	#15	6000	0:00:09	104.319	(-0.32, -0.30, -0.07)			
SA	Rastrigin	3	3	#1	6000	0:00:08	84.762	(-1.81, -2.07, 1.44)	97.641	9.757	39.692
SA	Rastrigin	3	3	#2	6000	0:00:09	86.436	(-1.87, -0.57, -1.94)			
SA	Rastrigin	3	3	#3	6000	0:00:08	106.032	(-1.94, 1.71, -0.04)			
SA	Rastrigin	3	3	#4	6000	0:00:09	94.443	(1.86, 0.11, 0.40)			
SA	Rastrigin	3	3	#5	6000	0:00:08	91.982	(2.00, 2.20, 4.07)			
SA	Rastrigin	3	3	#6	6000	0:00:08	114.437	(-0.14, 0.18, -2.04)			
SA	Rastrigin	3	3	#7	6000	0:00:09	93.815	(0.04, -2.38, 1.75)			
SA	Rastrigin	3	3	#8	6000	0:00:08	110.808	(-0.31, 0.10, -0.05)			
SA	Rastrigin	3	3	#9	6000	0:00:09	102.969	(-0.10, 3.92, 0.18)			
SA	Rastrigin	3	3	#10	6000	0:00:08	94.115	(2.02, 0.44, 1.92)			
SA	Rastrigin	3	3	#11	6000	0:00:08	87.691	(-4.23, 0.20, 2.16)			
SA	Rastrigin	3	3	#12	6000	0:00:09	103.658	(2.26, -2.01, 1.96)			
SA	Rastrigin	3	3	#13	6000	0:00:08	94.107	(-2.16, 3.78, 2.01)			
SA	Rastrigin	3	3	#14	6000	0:00:09	88.237	(2.24, -1.90, 1.53)			
SA	Rastrigin	3	3	#15	6000	0:00:08	111.123	(1.87, 0.07, -1.96)			
SA	Rosenbrock	3	0	#1	6000	0:00:05	79.926	(-0.14, 2.42, -0.49)	79.955	0.029	38.057
SA	Rosenbrock	3	0	#2	6000	0:00:05	79.901	(-1.57, 0.21, 0.66)			
SA	Rosenbrock	3	0	#3	6000	0:00:04	79.984	(1.01, 0.17, 0.12)			
SA	Rosenbrock	3	0	#4	6000	0:00:05	79.967	(1.06, -0.35, 0.37)			
SA	Rosenbrock	3	0	#5	6000	0:00:05	79.978	(-0.79, 0.47, -0.37)			
SA	Rosenbrock	3	0	#6	6000	0:00:04	79.956	(1.19, 0.28, 0.41)			
SA	Rosenbrock	3	0	#7	6000	0:00:05	79.902	(1.22, 1.88, 0.55)			
SA	Rosenbrock	3	0	#8	6000	0:00:05	79.966	(0.72, -1.88, 0.10)			
SA	Rosenbrock	3	0	#9	6000	0:00:04	79.955	(0.99, 1.00, 0.40)			
SA	Rosenbrock	3	0	#10	6000	0:00:05	79.996	(0.21, 0.12, 0.19)			
SA	Rosenbrock	3	0	#11	6000	0:00:05	79.95	(0.97, 1.91, 0.08)			
SA	Rosenbrock	3	0	#12	6000	0:00:04	79.965	(0.42, -0.92, -0.52)			
SA	Rosenbrock	3	0	#13	6000	0:00:05	79.983	(-0.07, 1.38, 0.10)			
SA	Rosenbrock	3	0	#14	6000	0:00:05	79.97	(-0.17, 0.64, 0.50)			
SA	Rosenbrock	3	0	#15	6000	0:00:04	79.932	(0.66, -2.65, 0.25)			
SA	Rosenbrock	3	1	#1	6000	0:00:09	82.225	(-2.12, -8.68, -1.08)	82.186	0.492	38.296
SA	Rosenbrock	3	1	#2	6000	0:00:08	81.884	(0.73, 8.22, 1.90)			
SA	Rosenbrock	3	1	#3	6000	0:00:09	82.848	(-2.70, -3.62, -1.18)			
SA	Rosenbrock	3	1	#4	6000	0:00:08	82.872	(-2.17, 5.77, 0.14)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rosenbrock	3	1	#5	6000	0:00:09	82.176	(-3.90, 3.69, -1.72)			
SA	Rosenbrock	3	1	#6	6000	0:00:08	81.569	(-1.79, -9.35, -0.01)			
SA	Rosenbrock	3	1	#7	6000	0:00:09	81.648	(1.92, 3.58, -0.97)			
SA	Rosenbrock	3	1	#8	6000	0:00:08	82.611	(0.58, -1.11, -0.77)			
SA	Rosenbrock	3	1	#9	6000	0:00:09	81.729	(1.45, 12.33, 0.72)			
SA	Rosenbrock	3	1	#10	6000	0:00:08	81.569	(-0.86, 3.96, 1.74)			
SA	Rosenbrock	3	1	#11	6000	0:00:09	82.638	(1.15, 5.34, 0.38)			
SA	Rosenbrock	3	1	#12	6000	0:00:08	82.338	(-3.73, -4.25, -0.63)			
SA	Rosenbrock	3	1	#13	6000	0:00:09	82.298	(4.93, -6.67, -1.60)			
SA	Rosenbrock	3	1	#14	6000	0:00:08	81.598	(0.73, -1.48, 0.12)			
SA	Rosenbrock	3	1	#15	6000	0:00:08	82.792	(-3.24, -7.26, -1.97)			
SA	Rosenbrock	3	2	#1	6000	0:00:08	83.885	(-2.45, -1.07, 3.75)	84.583	0.707	38.545
SA	Rosenbrock	3	2	#2	6000	0:00:09	84.1	(-5.51, -3.39, -2.32)			
SA	Rosenbrock	3	2	#3	6000	0:00:08	84.406	(-3.80, -8.84, 0.01)			
SA	Rosenbrock	3	2	#4	6000	0:00:09	83.8	(5.79, -8.58, -2.86)			
SA	Rosenbrock	3	2	#5	6000	0:00:08	85.712	(-3.63, 3.15, -0.92)			
SA	Rosenbrock	3	2	#6	6000	0:00:09	83.692	(0.96, 3.85, 1.10)			
SA	Rosenbrock	3	2	#7	6000	0:00:08	84.919	(4.79, -4.34, 0.73)			
SA	Rosenbrock	3	2	#8	6000	0:00:09	86.04	(-0.51, -2.64, -1.83)			
SA	Rosenbrock	3	2	#9	6000	0:00:08	84.02	(4.67, -1.25, 0.72)			
SA	Rosenbrock	3	2	#10	6000	0:00:08	84.983	(-5.56, -4.29, -3.93)			
SA	Rosenbrock	3	2	#11	6000	0:00:09	84.878	(1.63, -6.09, 2.11)			
SA	Rosenbrock	3	2	#12	6000	0:00:08	84.321	(2.48, 2.49, 0.55)			
SA	Rosenbrock	3	2	#13	6000	0:00:09	85.278	(-0.15, 0.53, 0.94)			
SA	Rosenbrock	3	2	#14	6000	0:00:08	84.128	(-5.17, -14.70, -4.99)			
SA	Rosenbrock	3	2	#15	6000	0:00:09	84.586	(-4.35, -2.00, -1.08)			
SA	Rosenbrock	3	3	#1	6000	0:00:09	86.768	(-1.11, 3.46, -0.49)	87.525	0.993	38.841
SA	Rosenbrock	3	3	#2	6000	0:00:08	87.759	(-6.45, -6.22, -4.37)			
SA	Rosenbrock	3	3	#3	6000	0:00:09	87.63	(-3.04, -7.67, -1.35)			
SA	Rosenbrock	3	3	#4	6000	0:00:08	87.154	(-0.08, 4.09, -1.04)			
SA	Rosenbrock	3	3	#5	6000	0:00:09	86.69	(3.69, 9.34, -1.44)			
SA	Rosenbrock	3	3	#6	6000	0:00:08	87.743	(0.25, 3.26, -4.00)			
SA	Rosenbrock	3	3	#7	6000	0:00:09	88.934	(3.24, -0.04, 1.36)			
SA	Rosenbrock	3	3	#8	6000	0:00:08	87.309	(-0.45, 12.43, -2.76)			
SA	Rosenbrock	3	3	#9	6000	0:00:09	87.568	(-4.44, -5.71, -3.04)			
SA	Rosenbrock	3	3	#10	6000	0:00:08	90.074	(1.19, 2.39, 0.21)			
SA	Rosenbrock	3	3	#11	6000	0:00:09	87.783	(-4.79, 1.76, -2.16)			
SA	Rosenbrock	3	3	#12	6000	0:00:08	86.032	(-3.65, 4.18, 0.51)			
SA	Rosenbrock	3	3	#13	6000	0:00:09	86.581	(3.10, -5.52, 0.48)			
SA	Rosenbrock	3	3	#14	6000	0:00:08	87.951	(1.38, 13.50, 1.89)			
SA	Rosenbrock	3	3	#15	6000	0:00:09	86.904	(5.79, -7.55, -1.52)			
SA	Styblinski	3	0	#1	6000	0:00:05	378.293	(-2.84, -2.45, -1.95)	376.617	6.740	51.514
SA	Styblinski	3	0	#2	6000	0:00:04	377.805	(-1.81, -3.03, -2.71)			
SA	Styblinski	3	0	#3	6000	0:00:05	373.794	(-2.51, 2.69, -3.24)			
SA	Styblinski	3	0	#4	6000	0:00:05	374.508	(-3.01, -1.66, -2.65)			
SA	Styblinski	3	0	#5	6000	0:00:04	363.015	(-3.96, -3.05, -3.25)			
SA	Styblinski	3	0	#6	6000	0:00:05	370.64	(3.16, -3.39, -2.86)			
SA	Styblinski	3	0	#7	6000	0:00:05	373.254	(-2.32, 2.79, -3.03)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Styblinski	3	0	#8	6000	0:00:04	377.277	(-2.74, -2.33, -3.59)			
SA	Styblinski	3	0	#9	6000	0:00:05	385.206	(-2.87, -3.46, -3.12)			
SA	Styblinski	3	0	#10	6000	0:00:05	382.544	(-3.17, -3.40, -3.33)			
SA	Styblinski	3	0	#11	6000	0:00:04	386.285	(-2.97, -3.39, -2.61)			
SA	Styblinski	3	0	#12	6000	0:00:05	371.004	(-2.69, 2.99, -3.43)			
SA	Styblinski	3	0	#13	6000	0:00:05	377.242	(-2.22, -2.31, -3.35)			
SA	Styblinski	3	0	#14	6000	0:00:04	370.848	(-3.71, -3.18, -2.26)			
SA	Styblinski	3	0	#15	6000	0:00:05	387.536	(-2.81, -3.09, -3.36)			
SA	Styblinski	3	1	#1	6000	0:00:09	373.293	(-2.95, 2.03, -2.87)	373.162	10.145	51.429
SA	Styblinski	3	1	#2	6000	0:00:08	381.624	(-3.09, -2.91, -1.91)			
SA	Styblinski	3	1	#3	6000	0:00:09	358.995	(-2.48, 2.80, -1.65)			
SA	Styblinski	3	1	#4	6000	0:00:08	369.737	(-3.52, 2.45, -2.76)			
SA	Styblinski	3	1	#5	6000	0:00:09	390.496	(-2.76, -2.91, -2.48)			
SA	Styblinski	3	1	#6	6000	0:00:08	364.404	(1.83, -2.55, -3.36)			
SA	Styblinski	3	1	#7	6000	0:00:09	384.163	(-2.46, -2.97, -2.26)			
SA	Styblinski	3	1	#8	6000	0:00:08	385.304	(-3.23, -3.04, -2.37)			
SA	Styblinski	3	1	#9	6000	0:00:09	372.769	(-2.99, 2.15, -3.23)			
SA	Styblinski	3	1	#10	6000	0:00:08	369.695	(2.26, -3.20, -3.41)			
SA	Styblinski	3	1	#11	6000	0:00:09	352.538	(1.36, -2.47, -2.11)			
SA	Styblinski	3	1	#12	6000	0:00:08	372.735	(-2.77, -3.01, 3.30)			
SA	Styblinski	3	1	#13	6000	0:00:08	377.516	(-2.27, -3.27, -2.16)			
SA	Styblinski	3	1	#14	6000	0:00:09	366.965	(-3.65, -3.31, -1.99)			
SA	Styblinski	3	1	#15	6000	0:00:08	377.191	(2.85, -2.91, -2.89)			
SA	Styblinski	3	2	#1	6000	0:00:09	367.951	(-2.04, -3.60, -2.23)	374.007	7.466	51.453
SA	Styblinski	3	2	#2	6000	0:00:08	369.386	(-1.60, -3.35, -2.69)			
SA	Styblinski	3	2	#3	6000	0:00:09	388.336	(-2.68, -3.04, -2.30)			
SA	Styblinski	3	2	#4	6000	0:00:08	379.099	(-2.53, -2.92, -1.92)			
SA	Styblinski	3	2	#5	6000	0:00:08	378.544	(3.03, -2.71, -3.21)			
SA	Styblinski	3	2	#6	6000	0:00:09	369.391	(-2.57, 1.92, -3.09)			
SA	Styblinski	3	2	#7	6000	0:00:08	375.312	(-2.41, -2.69, -1.90)			
SA	Styblinski	3	2	#8	6000	0:00:09	378.226	(-3.12, -3.61, -2.46)			
SA	Styblinski	3	2	#9	6000	0:00:08	372.594	(-3.50, -3.50, -2.24)			
SA	Styblinski	3	2	#10	6000	0:00:09	375.515	(-2.70, 2.49, -2.92)			
SA	Styblinski	3	2	#11	6000	0:00:08	373.511	(-2.33, -1.74, -3.26)			
SA	Styblinski	3	2	#12	6000	0:00:08	366.317	(3.51, -2.67, -2.80)			
SA	Styblinski	3	2	#13	6000	0:00:09	368.107	(-2.53, -1.62, -2.23)			
SA	Styblinski	3	2	#14	6000	0:00:08	361.042	(3.32, -3.58, -3.11)			
SA	Styblinski	3	2	#15	6000	0:00:09	386.781	(-3.24, -2.64, -2.27)			
SA	Styblinski	3	3	#1	6000	0:00:08	364.742	(-3.13, -3.69, -1.85)	372.683	9.113	51.421
SA	Styblinski	3	3	#2	6000	0:00:09	359.48	(-2.83, -2.64, -0.90)			
SA	Styblinski	3	3	#3	6000	0:00:08	366.086	(-1.79, -3.55, -2.37)			
SA	Styblinski	3	3	#4	6000	0:00:09	358.635	(-1.91, -2.69, -3.85)			
SA	Styblinski	3	3	#5	6000	0:00:08	386.088	(-2.23, -2.80, -2.84)			
SA	Styblinski	3	3	#6	6000	0:00:08	376.935	(2.64, -3.00, -3.01)			
SA	Styblinski	3	3	#7	6000	0:00:09	376.271	(2.52, -2.83, -2.93)			
SA	Styblinski	3	3	#8	6000	0:00:08	367.657	(-1.90, -3.60, -3.52)			
SA	Styblinski	3	3	#9	6000	0:00:09	375.812	(-2.97, 2.45, -2.69)			
SA	Styblinski	3	3	#10	6000	0:00:08	373.739	(-3.35, -2.50, 2.89)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Styblinski	3	3	#11	6000	0:00:08	364.689	(-2.59, -3.31, 3.48)			
SA	Styblinski	3	3	#12	6000	0:00:09	374.186	(-2.18, -2.64, 3.21)			
SA	Styblinski	3	3	#13	6000	0:00:08	389.39	(-3.09, -2.32, -2.94)			
SA	Styblinski	3	3	#14	6000	0:00:09	382.14	(-2.43, -2.58, -2.34)			
SA	Styblinski	3	3	#15	6000	0:00:08	374.4	(3.31, -2.76, -2.91)			
SA	Parabolic	4	0	#1	6000	0:00:17	11.867	(-1.35, -2.67, -1.59, 1.34)	11.922	0.037	21.527
SA	Parabolic	4	0	#2	6000	0:00:16	11.981	(-0.02, 0.23, -0.89, 1.03)			
SA	Parabolic	4	0	#3	6000	0:00:17	11.941	(1.59, 1.46, -0.29, -1.06)			
SA	Parabolic	4	0	#4	6000	0:00:17	11.882	(-2.36, -2.37, 0.74, -0.30)			
SA	Parabolic	4	0	#5	6000	0:00:17	11.955	(1.42, 0.04, -0.27, 1.55)			
SA	Parabolic	4	0	#6	6000	0:00:17	11.894	(-1.18, 0.64, -2.95, -0.29)			
SA	Parabolic	4	0	#7	6000	0:00:17	11.869	(0.69, 1.33, -1.46, -2.95)			
SA	Parabolic	4	0	#8	6000	0:00:17	11.951	(0.03, -0.93, -1.97, 0.41)			
SA	Parabolic	4	0	#9	6000	0:00:18	11.962	(0.31, -1.47, -1.16, 0.46)			
SA	Parabolic	4	0	#10	6000	0:00:17	11.936	(0.03, -1.70, 0.20, 1.87)			
SA	Parabolic	4	0	#11	6000	0:00:17	11.93	(-1.69, -0.96, -1.23, 1.31)			
SA	Parabolic	4	0	#12	6000	0:00:17	11.883	(1.77, -0.90, -2.79, 0.13)			
SA	Parabolic	4	0	#13	6000	0:00:17	11.95	(-1.72, -0.94, -1.06, 0.09)			
SA	Parabolic	4	0	#14	6000	0:00:17	11.887	(-0.25, -0.47, -2.17, -2.51)			
SA	Parabolic	4	0	#15	6000	0:00:17	11.938	(-0.66, -0.17, 2.25, 0.82)			
SA	Parabolic	4	1	#1	6000	0:00:22	13.944	(-1.14, -4.79, -0.75, 5.38)	14.203	0.382	23.039
SA	Parabolic	4	1	#2	6000	0:00:22	14.665	(2.50, 4.33, -3.24, 3.24)			
SA	Parabolic	4	1	#3	6000	0:00:22	14.694	(2.30, -3.77, -0.27, 0.89)			
SA	Parabolic	4	1	#4	6000	0:00:21	14.041	(3.14, -3.12, 0.73, -8.54)			
SA	Parabolic	4	1	#5	6000	0:00:22	13.503	(-2.81, -0.93, 6.16, 4.25)			
SA	Parabolic	4	1	#6	6000	0:00:22	13.837	(-3.11, -6.56, 2.62, -3.85)			
SA	Parabolic	4	1	#7	6000	0:00:22	14.536	(-6.60, 8.43, -0.87, -2.81)			
SA	Parabolic	4	1	#8	6000	0:00:22	13.937	(4.85, 0.04, -1.05, -3.72)			
SA	Parabolic	4	1	#9	6000	0:00:20	14.175	(1.00, 1.28, 6.10, 2.17)			
SA	Parabolic	4	1	#10	6000	0:00:21	13.938	(1.88, -0.29, -4.95, 0.06)			
SA	Parabolic	4	1	#11	6000	0:00:21	14.042	(-1.47, 0.17, -5.02, -1.11)			
SA	Parabolic	4	1	#12	6000	0:00:20	14.774	(2.97, 0.47, -1.72, 1.39)			
SA	Parabolic	4	1	#13	6000	0:00:21	14.236	(-4.71, -0.13, -4.04, 5.71)			
SA	Parabolic	4	1	#14	6000	0:00:21	14.036	(-1.54, -7.09, -0.87, -0.70)			
SA	Parabolic	4	1	#15	6000	0:00:20	14.689	(3.60, 1.64, 5.57, 7.10)			
SA	Parabolic	4	2	#1	6000	0:00:20	16.495	(-0.97, 8.49, -9.42, 0.44)	16.945	0.759	24.557
SA	Parabolic	4	2	#2	6000	0:00:21	17.291	(-14.25, 0.07, -1.94, -1.21)			
SA	Parabolic	4	2	#3	6000	0:00:20	17.001	(7.63, -0.11, 4.81, -7.59)			
SA	Parabolic	4	2	#4	6000	0:00:21	16.843	(-2.87, 3.14, -0.21, -6.71)			
SA	Parabolic	4	2	#5	6000	0:00:20	17.538	(-7.30, 2.59, 0.43, 1.90)			
SA	Parabolic	4	2	#6	6000	0:00:21	16.623	(2.82, -3.70, -2.92, 8.60)			
SA	Parabolic	4	2	#7	6000	0:00:21	17.122	(-2.35, -8.73, -6.19, -6.50)			
SA	Parabolic	4	2	#8	6000	0:00:20	18.848	(-10.18, 10.01, -8.12, -3.61)			
SA	Parabolic	4	2	#9	6000	0:00:21	15.687	(0.63, -7.80, -1.14, 2.27)			
SA	Parabolic	4	2	#10	6000	0:00:21	15.953	(-2.55, -3.42, -8.77, -1.34)			
SA	Parabolic	4	2	#11	6000	0:00:20	17.731	(-0.81, -1.50, -10.93, -0.63)			
SA	Parabolic	4	2	#12	6000	0:00:21	16.337	(4.63, 5.47, -9.23, 8.90)			
SA	Parabolic	4	2	#13	6000	0:00:20	16.843	(-4.27, 8.69, 9.06, -2.29)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Parabolic	4	2	#14	6000	0:00:21	17.082	(-4.74, 6.89, -0.86, -11.58)			
SA	Parabolic	4	2	#15	6000	0:00:21	16.774	(-1.06, -6.40, -4.29, -1.41)			
SA	Parabolic	4	3	#1	6000	0:00:21	18.777	(5.90, 2.52, 2.05, -7.16)	20.047	0.933	26.017
SA	Parabolic	4	3	#2	6000	0:00:20	20.956	(2.54, -3.43, -1.98, 0.53)			
SA	Parabolic	4	3	#3	6000	0:00:21	20.089	(-0.35, 5.10, 2.81, 5.02)			
SA	Parabolic	4	3	#4	6000	0:00:21	19.998	(-5.96, 1.72, -1.35, 5.41)			
SA	Parabolic	4	3	#5	6000	0:00:20	19.041	(-2.01, 0.10, 10.32, -2.49)			
SA	Parabolic	4	3	#6	6000	0:00:21	20.964	(17.41, -4.77, -2.82, 2.61)			
SA	Parabolic	4	3	#7	6000	0:00:20	19.368	(-5.11, -11.78, -3.05, 2.13)			
SA	Parabolic	4	3	#8	6000	0:00:21	20.895	(7.09, 13.60, -7.61, -11.45)			
SA	Parabolic	4	3	#9	6000	0:00:20	19.296	(-8.69, -0.48, 6.37, -11.18)			
SA	Parabolic	4	3	#10	6000	0:00:20	21.632	(0.12, 5.79, -0.61, 4.30)			
SA	Parabolic	4	3	#11	6000	0:00:21	20.219	(-7.58, -6.49, 2.48, -3.67)			
SA	Parabolic	4	3	#12	6000	0:00:21	21.463	(-7.11, 4.66, 11.29, 3.12)			
SA	Parabolic	4	3	#13	6000	0:00:20	19.276	(3.12, 0.95, 8.99, 7.82)			
SA	Parabolic	4	3	#14	6000	0:00:21	19.185	(-6.18, -1.58, 5.44, -0.58)			
SA	Parabolic	4	3	#15	6000	0:00:21	19.545	(4.32, -3.36, 1.57, -1.45)			
SA	Shekel	4	0	#1	6000	0:00:18	9.618	(5.60, 5.34, -2.19, 2.88)	10.127	2.167	19.653
SA	Shekel	4	0	#2	6000	0:00:21	8.669	(5.24, 5.26, -0.93, 3.52)			
SA	Shekel	4	0	#3	6000	0:00:19	9.733	(3.78, 6.23, -3.63, 0.94)			
SA	Shekel	4	0	#4	6000	0:00:18	9.206	(5.17, 5.30, -0.59, 1.09)			
SA	Shekel	4	0	#5	6000	0:00:17	15.445	(6.55, -6.16, -1.72, 3.60)			
SA	Shekel	4	0	#6	6000	0:00:18	7.56	(2.27, 6.72, -0.48, 0.22)			
SA	Shekel	4	0	#7	6000	0:00:18	13.317	(6.90, -6.84, -0.74, 3.80)			
SA	Shekel	4	0	#8	6000	0:00:17	9.777	(4.40, -7.27, -0.72, 2.52)			
SA	Shekel	4	0	#9	6000	0:00:18	8.168	(3.79, 8.28, -1.03, 1.89)			
SA	Shekel	4	0	#10	6000	0:00:17	9.116	(4.71, -5.16, -3.60, 3.32)			
SA	Shekel	4	0	#11	6000	0:00:18	7.482	(3.29, 5.30, -3.63, -0.58)			
SA	Shekel	4	0	#12	6000	0:00:18	11.156	(5.05, -6.61, -0.44, 4.98)			
SA	Shekel	4	0	#13	6000	0:00:17	10.193	(-8.39, -7.89, 0.58, -7.23)			
SA	Shekel	4	0	#14	6000	0:00:18	10.274	(6.29, -8.55, -2.53, 2.39)			
SA	Shekel	4	0	#15	6000	0:00:17	12.188	(3.77, 5.46, -1.46, 2.39)			
SA	Shekel	4	1	#1	6000	0:00:22	12.069	(4.08, 6.70, -1.65, 2.37)	9.665	0.922	19.615
SA	Shekel	4	1	#2	6000	0:00:22	9.939	(4.86, -8.36, -3.24, 2.48)			
SA	Shekel	4	1	#3	6000	0:00:22	8.883	(3.80, -6.83, -0.44, 4.34)			
SA	Shekel	4	1	#4	6000	0:00:22	9.01	(0.82, 2.28, -0.80, 2.09)			
SA	Shekel	4	1	#5	6000	0:00:22	10.954	(6.46, -6.79, 0.35, 4.28)			
SA	Shekel	4	1	#6	6000	0:00:22	8.912	(-6.99, 2.19, 5.10, 2.52)			
SA	Shekel	4	1	#7	6000	0:00:23	10.129	(5.23, -5.21, -0.55, 2.97)			
SA	Shekel	4	1	#8	6000	0:00:22	9.504	(-8.24, 3.77, 4.29, 0.60)			
SA	Shekel	4	1	#9	6000	0:00:22	8.588	(4.17, 1.83, -0.74, 3.26)			
SA	Shekel	4	1	#10	6000	0:00:22	8.991	(-0.18, -0.08, -7.57, -6.04)			
SA	Shekel	4	1	#11	6000	0:00:22	9.232	(8.18, -5.88, -3.08, 4.20)			
SA	Shekel	4	1	#12	6000	0:00:22	9.925	(2.14, 6.05, -2.79, 2.60)			
SA	Shekel	4	1	#13	6000	0:00:22	8.948	(3.67, 6.49, -4.16, 1.83)			
SA	Shekel	4	1	#14	6000	0:00:22	9.912	(3.44, 6.05, -1.93, -0.08)			
SA	Shekel	4	1	#15	6000	0:00:22	9.972	(7.52, -6.43, -3.80, 3.41)			
SA	Shekel	4	2	#1	6000	0:00:22	12.742	(7.40, -5.14, -2.98, 4.48)	12.565	1.905	21.761

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Shekel	4	2	#2	6000	0:00:22	11.359	(-0.08, 7.05, 1.24, -0.56)			
SA	Shekel	4	2	#3	6000	0:00:22	11.539	(4.65, -5.90, -1.17, 2.95)			
SA	Shekel	4	2	#4	6000	0:00:22	13.03	(7.32, -6.89, -1.74, 2.72)			
SA	Shekel	4	2	#5	6000	0:00:23	10.009	(-7.31, 0.86, 5.89, -0.34)			
SA	Shekel	4	2	#6	6000	0:00:22	12.363	(5.83, -5.55, -1.36, 3.42)			
SA	Shekel	4	2	#7	6000	0:00:22	12.668	(5.27, -8.15, -0.73, 3.02)			
SA	Shekel	4	2	#8	6000	0:00:22	11.018	(4.69, -6.95, -2.69, 3.99)			
SA	Shekel	4	2	#9	6000	0:00:22	11.335	(0.05, -4.54, -0.41, 3.58)			
SA	Shekel	4	2	#10	6000	0:00:22	17.57	(5.94, -6.74, -2.70, 4.63)			
SA	Shekel	4	2	#11	6000	0:00:22	14.896	(7.28, -6.77, -2.09, 3.77)			
SA	Shekel	4	2	#12	6000	0:00:22	11.949	(4.55, 5.85, -0.74, 4.57)			
SA	Shekel	4	2	#13	6000	0:00:22	10.919	(6.25, -5.76, -6.39, 2.98)			
SA	Shekel	4	2	#14	6000	0:00:22	14.556	(5.78, -7.32, -0.28, 2.88)			
SA	Shekel	4	2	#15	6000	0:00:22	12.526	(6.25, -7.24, 2.49, 2.97)			
SA	Shekel	4	3	#1	6000	0:00:22	12.186	(6.20, 4.58, 9.50, -17.95)	14.269	1.674	22.978
SA	Shekel	4	3	#2	6000	0:00:22	13.558	(-9.03, 3.49, 3.12, 0.09)			
SA	Shekel	4	3	#3	6000	0:00:22	12.843	(6.43, -7.02, -2.99, 1.43)			
SA	Shekel	4	3	#4	6000	0:00:22	14.41	(7.10, -6.48, -2.28, 2.23)			
SA	Shekel	4	3	#5	6000	0:00:22	13.384	(6.24, -7.49, -0.93, 0.74)			
SA	Shekel	4	3	#6	6000	0:00:22	19.046	(6.17, -7.26, -1.72, 3.46)			
SA	Shekel	4	3	#7	6000	0:00:22	13.553	(-11.23, -9.58, 3.84, 5.95)			
SA	Shekel	4	3	#8	6000	0:00:21	16.17	(3.41, 8.92, -6.39, 3.39)			
SA	Shekel	4	3	#9	6000	0:00:22	15.058	(-0.13, -0.21, -7.31, -6.48)			
SA	Shekel	4	3	#10	6000	0:00:22	14.09	(-9.04, 5.96, 5.91, -11.32)			
SA	Shekel	4	3	#11	6000	0:00:22	14.428	(0.93, -5.61, -11.97, -7.41)			
SA	Shekel	4	3	#12	6000	0:00:22	14.1	(-11.25, 4.58, 6.55, -0.19)			
SA	Shekel	4	3	#13	6000	0:00:22	15.082	(-9.44, -15.42, -9.76, -2.40)			
SA	Shekel	4	3	#14	6000	0:00:22	13.487	(7.60, -5.55, -2.36, 4.36)			
SA	Shekel	4	3	#15	6000	0:00:22	12.645	(-1.86, 8.82, 6.58, -8.57)			
SA	Rastrigin	4	0	#1	6000	0:00:17	84.719	(-3.87, -1.96, -0.66, 1.90)	86.310	10.907	38.535
SA	Rastrigin	4	0	#2	6000	0:00:17	101.56	(-2.15, -2.10, -0.27, -4.15)			
SA	Rastrigin	4	0	#3	6000	0:00:17	81.502	(2.01, 2.53, -0.47, 0.29)			
SA	Rastrigin	4	0	#4	6000	0:00:17	76.244	(-3.87, -4.04, 1.81, -4.25)			
SA	Rastrigin	4	0	#5	6000	0:00:18	85.451	(-2.16, 0.21, 5.92, -2.17)			
SA	Rastrigin	4	0	#6	6000	0:00:17	92.356	(1.95, -4.21, -2.00, -2.37)			
SA	Rastrigin	4	0	#7	6000	0:00:17	78.657	(1.38, -3.63, 2.15, 0.02)			
SA	Rastrigin	4	0	#8	6000	0:00:17	82.546	(-2.10, -4.10, -3.74, -0.40)			
SA	Rastrigin	4	0	#9	6000	0:00:17	73.382	(-1.87, 3.80, -5.74, -1.98)			
SA	Rastrigin	4	0	#10	6000	0:00:17	94.729	(0.30, -0.18, 3.69, 2.26)			
SA	Rastrigin	4	0	#11	6000	0:00:17	103.402	(-2.22, 0.09, 2.24, -3.96)			
SA	Rastrigin	4	0	#12	6000	0:00:17	86.242	(5.92, -0.14, 0.30, -0.29)			
SA	Rastrigin	4	0	#13	6000	0:00:17	79.666	(1.30, 0.05, -4.22, 0.21)			
SA	Rastrigin	4	0	#14	6000	0:00:17	69.485	(-1.41, 0.10, -0.20, -4.47)			
SA	Rastrigin	4	0	#15	6000	0:00:17	104.71	(-0.08, -2.31, 2.35, 1.94)			
SA	Rastrigin	4	1	#1	6000	0:00:21	74.518	(-2.03, 4.41, 2.04, -4.20)	81.888	13.525	37.959
SA	Rastrigin	4	1	#2	6000	0:00:22	93.469	(-0.17, 2.31, -2.07, -0.57)			
SA	Rastrigin	4	1	#3	6000	0:00:21	79.573	(0.01, -2.13, -2.09, -5.52)			
SA	Rastrigin	4	1	#4	6000	0:00:22	88.595	(-3.74, -0.17, 2.47, 1.96)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rastrigin	4	1	#5	6000	0:00:21	61.803	(2.08, 4.54, 1.79, 3.69)			
SA	Rastrigin	4	1	#6	6000	0:00:21	112.444	(-0.01, 2.28, 1.71, 1.99)			
SA	Rastrigin	4	1	#7	6000	0:00:22	81.973	(0.19, 2.65, 0.18, 0.42)			
SA	Rastrigin	4	1	#8	6000	0:00:21	84.694	(2.15, -4.27, 1.53, 2.02)			
SA	Rastrigin	4	1	#9	6000	0:00:21	67.711	(3.86, 2.37, 3.79, -3.80)			
SA	Rastrigin	4	1	#10	6000	0:00:21	73.81	(-3.68, 0.48, 0.57, 0.06)			
SA	Rastrigin	4	1	#11	6000	0:00:22	66.236	(-3.91, 2.00, 6.01, -3.78)			
SA	Rastrigin	4	1	#12	6000	0:00:21	81.321	(0.21, -0.13, 4.12, -0.78)			
SA	Rastrigin	4	1	#13	6000	0:00:21	75.158	(-2.19, 4.05, -1.75, 4.39)			
SA	Rastrigin	4	1	#14	6000	0:00:21	102.182	(1.77, 2.09, 1.76, -1.62)			
SA	Rastrigin	4	1	#15	6000	0:00:21	84.826	(2.39, 3.54, 0.05, -1.84)			
SA	Rastrigin	4	2	#1	6000	0:00:21	92.54	(-4.17, 1.78, 2.12, 4.04)	87.912	12.100	38.660
SA	Rastrigin	4	2	#2	6000	0:00:21	97.758	(-0.13, 2.35, 2.31, -2.27)			
SA	Rastrigin	4	2	#3	6000	0:00:21	94.916	(2.16, 2.16, 0.41, -1.65)			
SA	Rastrigin	4	2	#4	6000	0:00:20	92.884	(1.76, -1.76, -0.02, -1.30)			
SA	Rastrigin	4	2	#5	6000	0:00:21	72.928	(2.69, 3.84, -2.00, 0.24)			
SA	Rastrigin	4	2	#6	6000	0:00:21	99.844	(-0.28, 1.70, 0.09, -0.50)			
SA	Rastrigin	4	2	#7	6000	0:00:20	73.922	(2.27, 1.32, 1.98, 4.06)			
SA	Rastrigin	4	2	#8	6000	0:00:21	72.049	(3.26, -0.18, -0.48, -0.23)			
SA	Rastrigin	4	2	#9	6000	0:00:21	91.701	(-2.13, 2.09, 4.41, 0.04)			
SA	Rastrigin	4	2	#10	6000	0:00:21	72.16	(4.18, 3.63, -1.56, 1.98)			
SA	Rastrigin	4	2	#11	6000	0:00:20	84.526	(2.09, 1.61, 1.79, 2.52)			
SA	Rastrigin	4	2	#12	6000	0:00:21	92.811	(2.33, -2.18, -0.13, -4.33)			
SA	Rastrigin	4	2	#13	6000	0:00:21	105.62	(-1.91, -0.39, 2.26, 0.18)			
SA	Rastrigin	4	2	#14	6000	0:00:21	102.197	(1.68, 0.37, -2.07, 1.80)			
SA	Rastrigin	4	2	#15	6000	0:00:20	72.821	(5.78, 0.14, -0.06, -0.61)			
SA	Rastrigin	4	3	#1	6000	0:00:20	91.768	(-3.74, -2.22, -0.22, 1.61)	90.777	11.717	38.985
SA	Rastrigin	4	3	#2	6000	0:00:21	87.499	(-0.28, -0.29, 2.04, -4.37)			
SA	Rastrigin	4	3	#3	6000	0:00:21	85.222	(2.06, 1.63, 1.96, 1.30)			
SA	Rastrigin	4	3	#4	6000	0:00:21	101.546	(3.76, -2.26, 0.05, -2.15)			
SA	Rastrigin	4	3	#5	6000	0:00:21	84.297	(4.05, 1.81, 0.47, -3.88)			
SA	Rastrigin	4	3	#6	6000	0:00:21	73.655	(-3.06, 2.17, 2.28, 2.08)			
SA	Rastrigin	4	3	#7	6000	0:00:20	91.295	(4.06, 2.06, 3.89, -1.65)			
SA	Rastrigin	4	3	#8	6000	0:00:21	67.84	(-2.52, 1.61, -1.69, -1.53)			
SA	Rastrigin	4	3	#9	6000	0:00:21	111.868	(2.11, 0.13, -2.02, -3.83)			
SA	Rastrigin	4	3	#10	6000	0:00:20	80.934	(-1.13, -2.06, 0.30, 2.00)			
SA	Rastrigin	4	3	#11	6000	0:00:21	95.888	(3.71, 0.01, 1.86, 1.53)			
SA	Rastrigin	4	3	#12	6000	0:00:21	91.601	(-0.18, 6.18, -0.12, -2.11)			
SA	Rastrigin	4	3	#13	6000	0:00:21	93.415	(-1.97, 4.12, -1.72, -4.00)			
SA	Rastrigin	4	3	#14	6000	0:00:21	107.683	(-3.91, -2.02, 0.12, -2.20)			
SA	Rastrigin	4	3	#15	6000	0:00:21	97.143	(2.12, 3.98, -0.23, -4.15)			
SA	Rosenbrock	4	0	#1	6000	0:00:16	79.763	(-0.75, -1.99, -1.05, 1.97)	79.762	0.119	38.036
SA	Rosenbrock	4	0	#2	6000	0:00:16	79.62	(-3.18, 3.21, -0.33, 0.91)			
SA	Rosenbrock	4	0	#3	6000	0:00:17	79.844	(-3.01, -2.84, -0.58, 1.79)			
SA	Rosenbrock	4	0	#4	6000	0:00:16	79.888	(2.50, 0.55, -0.47, 0.65)			
SA	Rosenbrock	4	0	#5	6000	0:00:16	79.882	(1.70, -1.53, -0.81, 1.42)			
SA	Rosenbrock	4	0	#6	6000	0:00:17	79.731	(-3.01, -5.76, -0.58, 0.62)			
SA	Rosenbrock	4	0	#7	6000	0:00:16	79.657	(-1.19, 3.83, 0.56, 2.51)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rosenbrock	4	0	#8	6000	0:00:16	79.891	(-2.54, -1.98, 0.03, 0.43)			
SA	Rosenbrock	4	0	#9	6000	0:00:17	79.764	(0.69, -3.29, -1.17, -0.57)			
SA	Rosenbrock	4	0	#10	6000	0:00:16	79.54	(2.43, -3.01, 1.52, 0.78)			
SA	Rosenbrock	4	0	#11	6000	0:00:16	79.577	(0.80, 5.03, 0.41, -2.51)			
SA	Rosenbrock	4	0	#12	6000	0:00:16	79.909	(0.76, -0.60, -0.46, -1.51)			
SA	Rosenbrock	4	0	#13	6000	0:00:17	79.801	(3.48, -3.42, -0.46, 1.36)			
SA	Rosenbrock	4	0	#14	6000	0:00:16	79.732	(3.20, -4.68, -0.45, 2.60)			
SA	Rosenbrock	4	0	#15	6000	0:00:16	79.824	(1.11, -2.31, -0.82, -1.48)			
SA	Rosenbrock	4	1	#1	6000	0:00:21	81.713	(2.81, -10.84, -2.44, -2.54)	81.187	0.657	38.189
SA	Rosenbrock	4	1	#2	6000	0:00:21	80.719	(0.07, -4.05, -1.01, -4.69)			
SA	Rosenbrock	4	1	#3	6000	0:00:21	80.505	(-1.99, -5.22, -0.52, -2.11)			
SA	Rosenbrock	4	1	#4	6000	0:00:20	80.597	(-2.09, -5.93, 2.16, -4.31)			
SA	Rosenbrock	4	1	#5	6000	0:00:21	80.733	(-0.96, -6.30, -0.77, 1.60)			
SA	Rosenbrock	4	1	#6	6000	0:00:21	80.329	(0.37, 9.46, -2.31, -6.04)			
SA	Rosenbrock	4	1	#7	6000	0:00:21	82.018	(1.04, -5.00, -1.53, -0.54)			
SA	Rosenbrock	4	1	#8	6000	0:00:20	81.648	(-5.32, -1.67, -1.81, 3.65)			
SA	Rosenbrock	4	1	#9	6000	0:00:21	81.175	(-3.10, 3.15, -0.76, 3.95)			
SA	Rosenbrock	4	1	#10	6000	0:00:21	82.281	(-3.68, -5.28, 0.05, 0.00)			
SA	Rosenbrock	4	1	#11	6000	0:00:21	80.463	(3.70, -5.90, -2.61, 1.50)			
SA	Rosenbrock	4	1	#12	6000	0:00:21	81.513	(2.43, -0.34, -1.99, 0.31)			
SA	Rosenbrock	4	1	#13	6000	0:00:20	80.969	(4.46, -8.42, -1.80, 1.90)			
SA	Rosenbrock	4	1	#14	6000	0:00:21	82.168	(2.67, 0.25, -0.28, 2.19)			
SA	Rosenbrock	4	1	#15	6000	0:00:21	80.975	(2.32, 9.51, -0.21, 0.94)			
SA	Rosenbrock	4	2	#1	6000	0:00:20	85.743	(-0.43, 4.13, 1.89, 1.80)	83.981	0.974	38.482
SA	Rosenbrock	4	2	#2	6000	0:00:21	83.671	(-6.71, -12.86, 0.30, 4.20)			
SA	Rosenbrock	4	2	#3	6000	0:00:21	82.51	(0.80, 3.14, 1.76, -3.50)			
SA	Rosenbrock	4	2	#4	6000	0:00:21	84.184	(2.39, 1.76, -4.29, 5.24)			
SA	Rosenbrock	4	2	#5	6000	0:00:21	84.877	(-7.50, -16.72, -4.39, 12.04)			
SA	Rosenbrock	4	2	#6	6000	0:00:21	84.905	(-3.90, -1.07, -3.18, 1.50)			
SA	Rosenbrock	4	2	#7	6000	0:00:21	82.724	(-5.22, -2.42, -0.77, 11.64)			
SA	Rosenbrock	4	2	#8	6000	0:00:21	85.175	(-0.11, 5.45, 1.10, 4.66)			
SA	Rosenbrock	4	2	#9	6000	0:00:21	83.805	(1.43, -2.70, -1.40, 5.54)			
SA	Rosenbrock	4	2	#10	6000	0:00:21	83.865	(1.90, 5.87, 2.95, 2.32)			
SA	Rosenbrock	4	2	#11	6000	0:00:21	84.556	(-2.04, -0.02, 1.29, 2.73)			
SA	Rosenbrock	4	2	#12	6000	0:00:21	83.062	(-3.44, 0.73, -0.62, -2.57)			
SA	Rosenbrock	4	2	#13	6000	0:00:21	82.76	(0.57, 8.21, -4.16, -1.19)			
SA	Rosenbrock	4	2	#14	6000	0:00:21	83.437	(-1.91, 1.07, -1.46, -5.61)			
SA	Rosenbrock	4	2	#15	6000	0:00:21	84.434	(-0.30, -4.13, 0.25, -4.05)			
SA	Rosenbrock	4	3	#1	6000	0:00:21	85.647	(-1.76, -12.24, -2.98, 3.30)	86.552	1.191	38.743
SA	Rosenbrock	4	3	#2	6000	0:00:21	87.434	(0.73, -3.25, 3.21, -2.26)			
SA	Rosenbrock	4	3	#3	6000	0:00:21	85.422	(-2.38, 9.49, 4.78, 3.72)			
SA	Rosenbrock	4	3	#4	6000	0:00:21	87.027	(3.28, -19.50, -4.74, -0.76)			
SA	Rosenbrock	4	3	#5	6000	0:00:21	86.46	(2.57, 10.11, 1.50, 2.82)			
SA	Rosenbrock	4	3	#6	6000	0:00:21	86.948	(1.89, 2.79, -1.00, 1.19)			
SA	Rosenbrock	4	3	#7	6000	0:00:21	86.832	(-2.79, -5.24, 1.82, -0.99)			
SA	Rosenbrock	4	3	#8	6000	0:00:21	86.625	(1.82, 14.24, 0.92, -3.40)			
SA	Rosenbrock	4	3	#9	6000	0:00:21	85.022	(-5.77, -13.20, -1.08, 0.52)			
SA	Rosenbrock	4	3	#10	6000	0:00:21	86.38	(-2.74, 3.49, 1.49, 4.94)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rosenbrock	4	3	#11	6000	0:00:20	87.895	(2.03, 3.64, 0.18, 3.96)			
SA	Rosenbrock	4	3	#12	6000	0:00:21	89.357	(-1.48, 14.08, 1.62, 3.86)			
SA	Rosenbrock	4	3	#13	6000	0:00:21	87.029	(0.69, 1.43, -1.99, -0.68)			
SA	Rosenbrock	4	3	#14	6000	0:00:21	84.997	(0.87, -4.62, -2.32, 0.80)			
SA	Rosenbrock	4	3	#15	6000	0:00:21	85.202	(4.77, 0.29, -6.92, 4.18)			
SA	Styblinski	4	0	#1	6000	0:00:16	346.453	(2.75, -3.58, 2.06, 2.65)	356.376	9.643	51.030
SA	Styblinski	4	0	#2	6000	0:00:16	349.882	(-1.93, -1.47, -3.55, 2.31)			
SA	Styblinski	4	0	#3	6000	0:00:16	366.013	(-2.94, -3.23, -3.91, 0.32)			
SA	Styblinski	4	0	#4	6000	0:00:16	370.166	(-3.02, -2.58, 2.93, 3.41)			
SA	Styblinski	4	0	#5	6000	0:00:16	368.975	(-3.35, -3.10, -3.52, 4.29)			
SA	Styblinski	4	0	#6	6000	0:00:16	357.632	(-1.91, -2.19, 3.08, 1.46)			
SA	Styblinski	4	0	#7	6000	0:00:17	349.168	(1.99, 3.41, -3.07, 0.50)			
SA	Styblinski	4	0	#8	6000	0:00:16	355.606	(-2.39, -3.29, -0.95, 0.58)			
SA	Styblinski	4	0	#9	6000	0:00:16	368.163	(-2.50, -2.97, 3.07, -1.44)			
SA	Styblinski	4	0	#10	6000	0:00:16	356.371	(-3.24, -3.37, 2.17, -2.40)			
SA	Styblinski	4	0	#11	6000	0:00:16	356.909	(0.96, -2.97, -3.05, 0.29)			
SA	Styblinski	4	0	#12	6000	0:00:16	337.552	(-1.09, 3.32, -2.33, -0.62)			
SA	Styblinski	4	0	#13	6000	0:00:15	346.042	(-3.50, 1.72, -3.57, -1.31)			
SA	Styblinski	4	0	#14	6000	0:00:16	363.703	(-3.40, -2.04, -1.92, 2.64)			
SA	Styblinski	4	0	#15	6000	0:00:16	353.002	(1.17, -3.29, -3.03, 3.05)			
SA	Styblinski	4	1	#1	6000	0:00:20	344.406	(3.14, -3.87, -2.27, -1.29)	352.955	13.026	50.939
SA	Styblinski	4	1	#2	6000	0:00:21	348.064	(1.65, 2.20, -2.71, -0.69)			
SA	Styblinski	4	1	#3	6000	0:00:21	370.168	(-3.20, -1.76, -2.85, -1.82)			
SA	Styblinski	4	1	#4	6000	0:00:21	347.807	(-2.43, 2.23, -3.76, -2.21)			
SA	Styblinski	4	1	#5	6000	0:00:22	349.092	(-0.39, -3.02, -3.05, -1.73)			
SA	Styblinski	4	1	#6	6000	0:00:21	339.572	(-1.80, -2.60, -0.42, 1.21)			
SA	Styblinski	4	1	#7	6000	0:00:21	369.77	(-2.76, -3.53, -3.72, 1.86)			
SA	Styblinski	4	1	#8	6000	0:00:21	354.207	(2.57, -2.26, 3.22, 1.28)			
SA	Styblinski	4	1	#9	6000	0:00:22	353.845	(2.59, -3.39, 2.31, -0.56)			
SA	Styblinski	4	1	#10	6000	0:00:21	341.292	(-2.73, 2.27, 1.19, 0.22)			
SA	Styblinski	4	1	#11	6000	0:00:21	354.332	(2.99, -2.31, 2.22, 0.19)			
SA	Styblinski	4	1	#12	6000	0:00:21	338.543	(2.55, 2.38, 3.01, -1.72)			
SA	Styblinski	4	1	#13	6000	0:00:21	385.06	(-2.85, -2.35, -2.47, 1.27)			
SA	Styblinski	4	1	#14	6000	0:00:21	343.153	(-2.18, -2.85, 2.06, -3.91)			
SA	Styblinski	4	1	#15	6000	0:00:21	355.011	(2.62, 2.95, -3.53, -0.10)			
SA	Styblinski	4	2	#1	6000	0:00:21	371.291	(-2.63, -2.60, 2.10, 1.11)	357.629	13.893	51.053
SA	Styblinski	4	2	#2	6000	0:00:21	349.971	(-0.66, -3.16, -2.30, 2.57)			
SA	Styblinski	4	2	#3	6000	0:00:21	332.564	(2.94, 3.57, 2.40, 1.30)			
SA	Styblinski	4	2	#4	6000	0:00:21	352.623	(-3.23, 2.37, 2.61, -1.73)			
SA	Styblinski	4	2	#5	6000	0:00:21	339.477	(-2.41, 3.15, -1.98, -3.70)			
SA	Styblinski	4	2	#6	6000	0:00:21	355.382	(3.00, -3.59, -2.63, -1.61)			
SA	Styblinski	4	2	#7	6000	0:00:21	375.576	(-2.86, -3.47, -3.21, -1.79)			
SA	Styblinski	4	2	#8	6000	0:00:20	357.812	(-1.07, -2.44, -2.94, -0.07)			
SA	Styblinski	4	2	#9	6000	0:00:21	366.858	(3.05, -3.62, -2.89, 0.21)			
SA	Styblinski	4	2	#10	6000	0:00:20	362.719	(-1.67, -2.00, -2.66, 1.74)			
SA	Styblinski	4	2	#11	6000	0:00:21	361.35	(-3.50, -3.52, 2.92, 1.89)			
SA	Styblinski	4	2	#12	6000	0:00:21	350.553	(1.10, -3.15, -3.21, 2.89)			
SA	Styblinski	4	2	#13	6000	0:00:21	366.309	(-2.58, 1.83, -2.48, 1.19)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Styblinski	4	2	#14	6000	0:00:20	381.881	(-2.39, -2.52, -3.12, -0.88)			
SA	Styblinski	4	2	#15	6000	0:00:21	340.071	(2.59, -2.18, 2.53, 4.77)			
SA	Styblinski	4	3	#1	6000	0:00:20	364.917	(-2.60, -2.81, 3.06, -2.83)	355.905	13.374	51.013
SA	Styblinski	4	3	#2	6000	0:00:21	329.315	(2.57, -1.83, -1.84, -4.69)			
SA	Styblinski	4	3	#3	6000	0:00:21	375.484	(-2.49, -2.36, -3.13, -2.26)			
SA	Styblinski	4	3	#4	6000	0:00:21	368.698	(-3.67, -2.71, -2.94, -2.73)			
SA	Styblinski	4	3	#5	6000	0:00:21	355.018	(2.11, 3.24, -3.15, 2.49)			
SA	Styblinski	4	3	#6	6000	0:00:21	363.316	(-3.33, -2.18, -1.74, 2.80)			
SA	Styblinski	4	3	#7	6000	0:00:21	366.263	(-3.05, 2.68, -3.39, -1.00)			
SA	Styblinski	4	3	#8	6000	0:00:21	374.813	(-2.58, -2.73, 2.37, 0.66)			
SA	Styblinski	4	3	#9	6000	0:00:21	354.304	(-1.86, -2.82, -3.58, -2.86)			
SA	Styblinski	4	3	#10	6000	0:00:21	358.963	(-2.65, -0.86, -3.19, 2.14)			
SA	Styblinski	4	3	#11	6000	0:00:21	343.002	(-2.86, -3.30, 0.82, -2.43)			
SA	Styblinski	4	3	#12	6000	0:00:21	345.621	(-3.32, -1.40, -3.90, 1.34)			
SA	Styblinski	4	3	#13	6000	0:00:20	347.004	(3.31, -3.04, -1.26, 2.70)			
SA	Styblinski	4	3	#14	6000	0:00:21	352.486	(-2.46, 2.85, 2.81, 2.71)			
SA	Styblinski	4	3	#15	6000	0:00:21	339.376	(2.16, -1.52, -2.59, 4.43)			
SA	Parabolic	5	0	#1	6000	0:00:20	11.755	(-1.67, 3.82, 2.42, -1.11, 0.17)	11.787	0.065	21.428
SA	Parabolic	5	0	#2	6000	0:00:21	11.753	(1.12, -1.13, 4.47, -1.34, 0.61)			
SA	Parabolic	5	0	#3	6000	0:00:20	11.844	(-0.35, 2.70, -2.78, 0.16, -0.63)			
SA	Parabolic	5	0	#4	6000	0:00:21	11.819	(-1.59, -1.12, -1.22, 2.69, -2.37)			
SA	Parabolic	5	0	#5	6000	0:00:21	11.827	(-1.12, -0.17, -1.13, 3.60, 1.35)			
SA	Parabolic	5	0	#6	6000	0:00:21	11.638	(-5.33, 0.98, -0.15, -2.61, -0.21)			
SA	Parabolic	5	0	#7	6000	0:00:21	11.828	(0.18, -0.43, -3.77, -0.71, -1.49)			
SA	Parabolic	5	0	#8	6000	0:00:21	11.814	(2.88, -2.05, 1.69, 1.08, -1.43)			
SA	Parabolic	5	0	#9	6000	0:00:21	11.849	(0.25, -3.14, -0.61, 2.18, 0.15)			
SA	Parabolic	5	0	#10	6000	0:00:21	11.86	(-0.67, 1.38, -1.99, -2.70, -0.62)			
SA	Parabolic	5	0	#11	6000	0:00:21	11.787	(-0.01, 0.22, -0.98, 1.64, 4.20)			
SA	Parabolic	5	0	#12	6000	0:00:21	11.736	(0.03, -2.63, -1.67, 3.97, -0.99)			
SA	Parabolic	5	0	#13	6000	0:00:21	11.844	(-0.94, -1.68, -1.15, -0.18, -3.24)			
SA	Parabolic	5	0	#14	6000	0:00:21	11.768	(-2.68, 0.96, -3.84, -0.36, -0.52)			
SA	Parabolic	5	0	#15	6000	0:00:21	11.684	(-4.06, -1.49, 3.26, -0.90, -1.20)			
SA	Parabolic	5	1	#1	6000	0:00:25	13.32	(1.34, 0.94, 2.63, -6.47, 0.39)	13.571	0.497	22.637
SA	Parabolic	5	1	#2	6000	0:00:25	13.57	(-9.31, -1.97, -1.63, -2.25, -4.06)			
SA	Parabolic	5	1	#3	6000	0:00:25	13.729	(5.81, -3.32, -7.16, -4.43, 1.29)			
SA	Parabolic	5	1	#4	6000	0:00:26	13.137	(5.35, 3.11, 0.94, 1.64, -5.54)			
SA	Parabolic	5	1	#5	6000	0:00:25	13.796	(2.85, -0.07, 5.07, -2.06, 1.97)			
SA	Parabolic	5	1	#6	6000	0:00:25	13.994	(3.08, -2.19, -6.78, -4.36, -0.06)			
SA	Parabolic	5	1	#7	6000	0:00:26	12.962	(6.78, 6.44, 0.62, -3.89, 3.09)			
SA	Parabolic	5	1	#8	6000	0:00:25	13.552	(-0.40, -2.32, 2.83, 6.68, 4.67)			
SA	Parabolic	5	1	#9	6000	0:00:26	13.373	(-4.88, -6.55, -1.55, 1.01, 8.13)			
SA	Parabolic	5	1	#10	6000	0:00:25	13.46	(1.37, -7.57, 0.89, -1.93, -3.64)			
SA	Parabolic	5	1	#11	6000	0:00:25	13.335	(-5.48, -2.43, 1.74, -3.25, 6.67)			
SA	Parabolic	5	1	#12	6000	0:00:26	13.124	(7.59, -5.47, 2.28, 0.83, -2.76)			
SA	Parabolic	5	1	#13	6000	0:00:25	13.904	(5.31, -0.81, -0.15, -1.53, -1.75)			
SA	Parabolic	5	1	#14	6000	0:00:26	13.292	(1.58, -2.16, 6.51, -4.30, -0.01)			
SA	Parabolic	5	1	#15	6000	0:00:25	15.015	(8.95, 1.17, 5.20, -1.46, -0.27)			
SA	Parabolic	5	2	#1	6000	0:00:25	16.362	(-5.19, -0.14, -2.18, 2.09, 2.39)	16.616	0.982	24.371

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Parabolic	5	2	#2	6000	0:00:25	18.718	(7.65, -2.67, -10.05, -5.40, -9.36)			
SA	Parabolic	5	2	#3	6000	0:00:26	15.369	(-16.88, 0.27, 0.61, 1.70, -0.41)			
SA	Parabolic	5	2	#4	6000	0:00:25	16.654	(-10.33, 3.31, 3.39, -2.37, -0.97)			
SA	Parabolic	5	2	#5	6000	0:00:25	16.55	(3.07, -9.55, -7.53, 1.41, 7.11)			
SA	Parabolic	5	2	#6	6000	0:00:25	17.135	(-0.37, 5.53, 10.43, 5.39, -0.96)			
SA	Parabolic	5	2	#7	6000	0:00:25	16.275	(1.80, -2.44, -3.80, 10.05, -3.35)			
SA	Parabolic	5	2	#8	6000	0:00:25	18.187	(12.10, 4.68, -6.71, 5.98, -0.18)			
SA	Parabolic	5	2	#9	6000	0:00:26	15.586	(-8.40, 3.62, 1.63, -7.12, 0.76)			
SA	Parabolic	5	2	#10	6000	0:00:25	16.682	(-3.95, 0.81, 5.97, -10.32, -11.55)			
SA	Parabolic	5	2	#11	6000	0:00:25	17.787	(-7.59, 2.19, 3.01, -2.44, 0.38)			
SA	Parabolic	5	2	#12	6000	0:00:25	16.405	(8.03, -4.66, -1.49, 1.17, -5.86)			
SA	Parabolic	5	2	#13	6000	0:00:25	15.38	(-6.20, 0.46, -6.67, 13.67, 3.30)			
SA	Parabolic	5	2	#14	6000	0:00:26	16.149	(14.35, 1.98, 4.26, -0.59, -4.48)			
SA	Parabolic	5	2	#15	6000	0:00:25	16	(-1.91, 6.57, -4.44, -7.18, 5.84)			
SA	Parabolic	5	3	#1	6000	0:00:25	18.795	(-3.63, 3.03, 4.77, 11.90, 0.96)	19.359	1.202	25.704
SA	Parabolic	5	3	#2	6000	0:00:24	18.794	(8.55, -1.03, 4.55, -5.26, -9.13)			
SA	Parabolic	5	3	#3	6000	0:00:25	18.154	(-7.89, -0.11, 6.93, -7.79, 4.66)			
SA	Parabolic	5	3	#4	6000	0:00:25	19.237	(-9.93, 3.99, 3.20, 10.14, -6.82)			
SA	Parabolic	5	3	#5	6000	0:00:25	18.5	(6.91, -3.93, -0.82, 5.58, -3.28)			
SA	Parabolic	5	3	#6	6000	0:00:25	18.138	(12.73, 6.69, 3.06, 6.72, -5.02)			
SA	Parabolic	5	3	#7	6000	0:00:26	20.212	(8.22, 5.09, -9.22, 2.28, 9.54)			
SA	Parabolic	5	3	#8	6000	0:00:25	19.561	(4.06, 0.95, 10.51, 8.65, 11.23)			
SA	Parabolic	5	3	#9	6000	0:00:25	17.672	(7.91, -6.09, -6.89, 11.41, 6.27)			
SA	Parabolic	5	3	#10	6000	0:00:25	19.496	(2.08, 0.22, 2.71, -7.96, -8.84)			
SA	Parabolic	5	3	#11	6000	0:00:26	19.266	(5.13, -7.57, -0.46, -11.34, -2.53)			
SA	Parabolic	5	3	#12	6000	0:00:25	19.37	(-3.91, -5.47, -1.65, -13.03, -11.66)			
SA	Parabolic	5	3	#13	6000	0:00:25	22.025	(-6.84, 6.79, 8.59, 2.70, -0.67)			
SA	Parabolic	5	3	#14	6000	0:00:25	21.622	(7.83, -7.35, -6.15, 0.77, -4.03)			
SA	Parabolic	5	3	#15	6000	0:00:25	19.543	(0.41, -0.71, 5.88, -6.06, -6.27)			
SA	Shekel	5	0	#1	6000	0:00:21	5.18	(8.35, -3.44, -1.76, 1.76, 3.05)	6.442	1.400	15.798
SA	Shekel	5	0	#2	6000	0:00:21	10.78	(3.23, 6.55, -3.08, 2.31, 4.12)			
SA	Shekel	5	0	#3	6000	0:00:21	6.166	(4.86, -4.32, -2.50, 6.70, 2.58)			
SA	Shekel	5	0	#4	6000	0:00:21	5.903	(-8.42, -9.67, 1.57, -7.17, 1.63)			
SA	Shekel	5	0	#5	6000	0:00:21	5.96	(7.53, -9.27, -4.41, 5.13, 1.67)			
SA	Shekel	5	0	#6	6000	0:00:21	5.344	(0.16, 3.53, -2.34, 0.02, 6.24)			
SA	Shekel	5	0	#7	6000	0:00:21	7.975	(5.03, -4.71, -1.70, 5.36, 3.43)			
SA	Shekel	5	0	#8	6000	0:00:21	6.145	(5.07, -7.91, -5.38, 3.78, 3.52)			
SA	Shekel	5	0	#9	6000	0:00:21	6.084	(7.52, -4.47, -0.58, 1.49, 1.61)			
SA	Shekel	5	0	#10	6000	0:00:22	5.172	(-4.44, 2.14, 2.45, -1.16, 5.16)			
SA	Shekel	5	0	#11	6000	0:00:21	6.795	(8.73, -5.94, -0.12, 4.46, 2.12)			
SA	Shekel	5	0	#12	6000	0:00:21	6.898	(1.27, 5.14, -1.97, 3.39, 2.72)			
SA	Shekel	5	0	#13	6000	0:00:21	6.511	(4.08, 7.57, -4.34, 3.19, 2.67)			
SA	Shekel	5	0	#14	6000	0:00:22	5.725	(2.73, 2.79, -3.52, 1.28, 6.74)			
SA	Shekel	5	0	#15	6000	0:00:20	5.989	(5.13, 8.09, -4.45, 1.68, 5.24)			
SA	Shekel	5	1	#1	6000	0:00:26	7.807	(5.33, -7.33, -3.76, 6.27, 1.44)	7.323	1.180	17.018
SA	Shekel	5	1	#2	6000	0:00:25	7.212	(3.28, -6.88, -2.96, 2.42, 2.39)			
SA	Shekel	5	1	#3	6000	0:00:26	8.355	(5.49, -8.57, -0.19, 3.51, 3.39)			
SA	Shekel	5	1	#4	6000	0:00:25	10.214	(4.65, -5.90, -1.17, 2.95, 3.16)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Shekel	5	1	#5	6000	0:00:26	5.487	(-1.71, -1.23, 0.51, -6.73, -1.47)			
SA	Shekel	5	1	#6	6000	0:00:25	6.944	(5.74, 4.82, -5.26, 0.97, 1.78)			
SA	Shekel	5	1	#7	6000	0:00:26	7.428	(7.16, -4.80, -2.83, 0.50, 0.24)			
SA	Shekel	5	1	#8	6000	0:00:26	7.608	(3.23, 5.68, -0.39, 1.49, 2.34)			
SA	Shekel	5	1	#9	6000	0:00:25	8.237	(-10.40, 1.74, 3.42, 1.62, 4.76)			
SA	Shekel	5	1	#10	6000	0:00:26	7.69	(3.15, 4.70, -1.31, -1.73, 2.39)			
SA	Shekel	5	1	#11	6000	0:00:25	6.541	(5.21, -5.36, -4.50, 3.00, -2.26)			
SA	Shekel	5	1	#12	6000	0:00:26	7.205	(2.94, 10.03, -3.80, 2.82, 5.00)			
SA	Shekel	5	1	#13	6000	0:00:25	6.658	(3.88, -9.89, -0.26, 3.34, 2.59)			
SA	Shekel	5	1	#14	6000	0:00:26	7.178	(2.80, 1.78, -0.65, 0.63, 2.37)			
SA	Shekel	5	1	#15	6000	0:00:25	5.285	(-1.15, 4.76, -2.91, 7.42, 1.93)			
SA	Shekel	5	2	#1	6000	0:00:26	9.861	(-7.68, -2.11, 2.08, 4.32, 0.65)	9.065	0.667	19.106
SA	Shekel	5	2	#2	6000	0:00:25	8.967	(-7.03, -5.87, 3.80, -7.14, -1.06)			
SA	Shekel	5	2	#3	6000	0:00:26	9.974	(-17.92, 12.37, -10.18, 0.04, 19.15)			
SA	Shekel	5	2	#4	6000	0:00:26	10.438	(5.35, 3.63, -4.64, -2.05, 4.40)			
SA	Shekel	5	2	#5	6000	0:00:26	9.282	(-5.06, -1.87, -5.46, -5.15, 2.80)			
SA	Shekel	5	2	#6	6000	0:00:25	8.864	(2.66, 6.09, -7.72, -8.22, -3.45)			
SA	Shekel	5	2	#7	6000	0:00:26	9.175	(1.88, -0.57, 9.31, -0.42, 6.51)			
SA	Shekel	5	2	#8	6000	0:00:26	8.378	(-9.05, 6.61, 2.08, 5.80, -8.24)			
SA	Shekel	5	2	#9	6000	0:00:26	8.593	(-2.20, -2.14, -4.57, -3.06, 7.26)			
SA	Shekel	5	2	#10	6000	0:00:26	8.195	(4.37, -9.21, -3.76, 3.23, -0.23)			
SA	Shekel	5	2	#11	6000	0:00:26	8.792	(-7.62, 0.12, -14.39, 10.50, 9.30)			
SA	Shekel	5	2	#12	6000	0:00:26	8.478	(8.49, 4.71, -4.38, 1.68, 14.61)			
SA	Shekel	5	2	#13	6000	0:00:25	8.643	(-10.45, 1.87, 3.15, 2.07, 4.48)			
SA	Shekel	5	2	#14	6000	0:00:26	9.76	(6.99, 5.19, -1.23, 0.96, 3.09)			
SA	Shekel	5	2	#15	6000	0:00:26	8.581	(-3.81, -1.50, -1.43, -5.16, 4.10)			
SA	Shekel	5	3	#1	6000	0:00:25	12.988	(-3.38, 8.56, 6.81, -2.64, 7.34)	12.707	1.617	21.940
SA	Shekel	5	3	#2	6000	0:00:26	12.451	(-4.19, -6.62, -7.33, -3.72, 8.55)			
SA	Shekel	5	3	#3	6000	0:00:25	11.863	(-10.75, 8.55, 0.78, 11.17, 6.20)			
SA	Shekel	5	3	#4	6000	0:00:26	12.089	(-10.76, 13.48, 13.71, 1.70, 9.16)			
SA	Shekel	5	3	#5	6000	0:00:26	11.599	(-9.07, -10.25, -14.11, 7.15, -8.18)			
SA	Shekel	5	3	#6	6000	0:00:25	11.426	(18.05, 11.18, 15.78, -12.53, -16.57)			
SA	Shekel	5	3	#7	6000	0:00:26	12.055	(-2.23, 15.73, -16.54, -17.05, 13.95)			
SA	Shekel	5	3	#8	6000	0:00:25	11.72	(16.38, 11.77, 19.79, -19.34, 0.72)			
SA	Shekel	5	3	#9	6000	0:00:26	12.344	(11.62, 1.22, -6.62, -8.47, -19.34)			
SA	Shekel	5	3	#10	6000	0:00:25	17.871	(6.99, -6.99, -0.64, 4.57, 3.63)			
SA	Shekel	5	3	#11	6000	0:00:26	12.545	(-3.10, 3.25, -1.28, 6.23, 9.46)			
SA	Shekel	5	3	#12	6000	0:00:25	14.51	(8.80, -0.43, -6.34, -10.33, -5.70)			
SA	Shekel	5	3	#13	6000	0:00:25	12.95	(4.95, 6.75, 0.22, 0.77, 3.71)			
SA	Shekel	5	3	#14	6000	0:00:26	12.448	(-10.11, -4.60, 1.34, -16.33, -6.30)			
SA	Shekel	5	3	#15	6000	0:00:25	11.752	(-14.13, 16.00, 16.42, 0.27, 0.88)			
SA	Rastrigin	5	0	#1	6000	0:00:20	47.584	(-1.77, 4.32, 5.31, 2.02, 0.38)	69.744	18.102	35.911
SA	Rastrigin	5	0	#2	6000	0:00:21	64.725	(-0.48, -0.47, 2.44, 2.36, 4.13)			
SA	Rastrigin	5	0	#3	6000	0:00:20	85.616	(0.04, -2.38, 1.75, 6.21, -0.21)			
SA	Rastrigin	5	0	#4	6000	0:00:21	90.628	(3.84, -4.11, 0.44, 2.18, -1.73)			
SA	Rastrigin	5	0	#5	6000	0:00:21	73.995	(-1.78, 1.85, -4.83, 0.07, -1.69)			
SA	Rastrigin	5	0	#6	6000	0:00:21	86.484	(-0.79, -2.05, -0.27, -2.13, 0.49)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rastrigin	5	0	#7	6000	0:00:20	69.789	(-2.01, 5.71, 1.65, 4.01, 3.91)			
SA	Rastrigin	5	0	#8	6000	0:00:21	45.654	(-1.16, 1.91, 1.73, 2.73, -4.18)			
SA	Rastrigin	5	0	#9	6000	0:00:21	91.308	(-2.05, 0.66, -0.26, -1.60, 2.26)			
SA	Rastrigin	5	0	#10	6000	0:00:21	54.05	(2.23, -6.04, -6.04, -4.13, 1.96)			
SA	Rastrigin	5	0	#11	6000	0:00:21	85.797	(3.64, 3.91, 4.07, -1.84, -0.34)			
SA	Rastrigin	5	0	#12	6000	0:00:21	41.325	(5.99, 0.59, -2.20, 0.69, -4.04)			
SA	Rastrigin	5	0	#13	6000	0:00:22	47.747	(5.86, 1.72, -5.34, 1.79, 0.05)			
SA	Rastrigin	5	0	#14	6000	0:00:21	81.879	(1.24, -3.61, -1.72, -1.94, -0.12)			
SA	Rastrigin	5	0	#15	6000	0:00:21	79.577	(-2.01, -1.07, -0.22, 3.78, -0.37)			
SA	Rastrigin	5	1	#1	6000	0:00:26	73.623	(-2.00, 2.25, -0.21, -6.21, -0.59)	77.618	23.853	36.618
SA	Rastrigin	5	1	#2	6000	0:00:26	65.436	(-4.25, -2.21, 1.82, -3.22, -1.72)			
SA	Rastrigin	5	1	#3	6000	0:00:26	48.245	(-8.36, 1.89, 1.67, -1.74, -1.87)			
SA	Rastrigin	5	1	#4	6000	0:00:26	105.182	(0.15, 1.55, -0.39, -3.86, 1.91)			
SA	Rastrigin	5	1	#5	6000	0:00:26	90.5	(1.70, 0.27, -1.63, 0.14, -5.91)			
SA	Rastrigin	5	1	#6	6000	0:00:26	123.983	(2.32, -0.02, 2.03, -1.71, -0.25)			
SA	Rastrigin	5	1	#7	6000	0:00:26	75.692	(2.31, -5.93, -2.44, -1.73, 0.14)			
SA	Rastrigin	5	1	#8	6000	0:00:26	42.614	(-3.45, -2.28, -0.01, -6.62, 0.04)			
SA	Rastrigin	5	1	#9	6000	0:00:26	102.171	(1.72, 0.42, 2.32, 0.11, 3.79)			
SA	Rastrigin	5	1	#10	6000	0:00:26	102.649	(-2.26, 0.05, -2.15, -2.27, -4.30)			
SA	Rastrigin	5	1	#11	6000	0:00:26	49.592	(7.41, 1.45, -0.07, 0.17, -0.11)			
SA	Rastrigin	5	1	#12	6000	0:00:26	62.548	(6.38, -0.30, -0.34, -2.43, -2.06)			
SA	Rastrigin	5	1	#13	6000	0:00:26	63.334	(-1.05, 4.14, -0.11, -3.78, 3.97)			
SA	Rastrigin	5	1	#14	6000	0:00:26	88.883	(0.13, -2.02, -3.83, 3.89, 1.36)			
SA	Rastrigin	5	1	#15	6000	0:00:26	69.823	(2.12, 3.82, -4.27, -3.51, 2.21)			
SA	Rastrigin	5	2	#1	6000	0:00:26	69.281	(1.83, 2.24, 0.37, 5.36, -0.24)	69.226	23.260	34.921
SA	Rastrigin	5	2	#2	6000	0:00:26	105.404	(-0.18, -4.21, -0.35, 0.22, -0.41)			
SA	Rastrigin	5	2	#3	6000	0:00:26	58.412	(-3.78, -0.05, 2.12, 3.02, -4.38)			
SA	Rastrigin	5	2	#4	6000	0:00:26	51.915	(-4.66, -4.13, -0.48, 0.40, -0.24)			
SA	Rastrigin	5	2	#5	6000	0:00:26	52.122	(-5.28, -2.23, -3.83, -4.19, -0.12)			
SA	Rastrigin	5	2	#6	6000	0:00:26	87.373	(-1.71, -0.36, -2.18, -5.91, 0.31)			
SA	Rastrigin	5	2	#7	6000	0:00:26	64.744	(1.85, 2.11, 5.97, -2.10, -0.89)			
SA	Rastrigin	5	2	#8	6000	0:00:26	66.717	(0.58, -1.94, 4.20, -2.42, -0.51)			
SA	Rastrigin	5	2	#9	6000	0:00:25	81.154	(-4.21, -3.95, 1.86, 2.16, -4.35)			
SA	Rastrigin	5	2	#10	6000	0:00:25	52.968	(-0.26, 1.85, 4.03, -0.53, 4.69)			
SA	Rastrigin	5	2	#11	6000	0:00:26	99.53	(1.67, -2.54, -1.98, 0.03, 0.43)			
SA	Rastrigin	5	2	#12	6000	0:00:26	22.569	(-4.59, -1.44, 0.22, -0.55, -3.42)			
SA	Rastrigin	5	2	#13	6000	0:00:26	42.908	(5.84, 0.62, -5.98, -1.87, 0.38)			
SA	Rastrigin	5	2	#14	6000	0:00:26	91.211	(-4.16, -4.07, 2.12, 1.71, -4.07)			
SA	Rastrigin	5	2	#15	6000	0:00:26	92.089	(2.00, 3.82, 4.38, 2.10, -1.75)			
SA	Rastrigin	5	3	#1	6000	0:00:26	71.575	(2.35, 0.48, -3.73, -4.18, 3.92)	60.329	17.180	34.585
SA	Rastrigin	5	3	#2	6000	0:00:26	67.313	(-4.15, -1.85, -3.76, -5.54, -0.15)			
SA	Rastrigin	5	3	#3	6000	0:00:26	58.985	(-0.90, -0.68, -0.07, 1.82, 2.48)			
SA	Rastrigin	5	3	#4	6000	0:00:25	79.479	(5.87, 3.68, -2.12, -0.13, -2.31)			
SA	Rastrigin	5	3	#5	6000	0:00:26	56.664	(-1.59, 6.16, 0.14, -5.96, 2.27)			
SA	Rastrigin	5	3	#6	6000	0:00:26	38.002	(-2.29, -6.46, -0.34, -2.09, 0.84)			
SA	Rastrigin	5	3	#7	6000	0:00:26	86.173	(2.25, 0.23, -3.83, 6.20, 0.11)			
SA	Rastrigin	5	3	#8	6000	0:00:26	33.826	(6.45, -5.84, 2.30, 1.57, 0.15)			
SA	Rastrigin	5	3	#9	6000	0:00:26	78.372	(-3.60, -0.79, -0.07, -2.22, 1.74)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rastrigin	5	3	#10	6000	0:00:26	77.877	(3.27, 0.49, -2.12, -3.96, -1.90)			
SA	Rastrigin	5	3	#11	6000	0:00:26	68.164	(5.79, 1.84, -0.35, -4.17, -4.04)			
SA	Rastrigin	5	3	#12	6000	0:00:25	58.995	(-2.04, -3.90, 4.59, -2.13, -0.72)			
SA	Rastrigin	5	3	#13	6000	0:00:26	39.728	(-0.79, 1.39, -5.94, -4.05, -1.96)			
SA	Rastrigin	5	3	#14	6000	0:00:26	37.529	(1.31, -3.75, -1.54, -1.77, -2.72)			
SA	Rastrigin	5	3	#15	6000	0:00:26	52.259	(-2.06, 0.67, -0.18, -2.21, 5.14)			
SA	Rosenbrock	5	0	#1	6000	0:00:22	79.516	(-0.90, -3.51, -0.59, 2.92, 3.06)	79.357	0.180	37.992
SA	Rosenbrock	5	0	#2	6000	0:00:21	79.38	(-2.41, -5.08, -0.05, 1.25, 5.70)			
SA	Rosenbrock	5	0	#3	6000	0:00:22	79.183	(-1.56, -7.75, 0.86, 2.42, 3.05)			
SA	Rosenbrock	5	0	#4	6000	0:00:21	79.223	(-2.90, -1.11, -2.00, 4.77, -0.31)			
SA	Rosenbrock	5	0	#5	6000	0:00:22	79.251	(2.02, -1.33, -2.42, 1.84, 3.58)			
SA	Rosenbrock	5	0	#6	6000	0:00:21	79.593	(-1.79, 0.13, 0.63, -2.17, -2.37)			
SA	Rosenbrock	5	0	#7	6000	0:00:22	79.572	(-1.77, 4.93, -0.88, 1.20, -1.50)			
SA	Rosenbrock	5	0	#8	6000	0:00:21	79.519	(0.24, 1.40, -0.29, -3.08, -3.56)			
SA	Rosenbrock	5	0	#9	6000	0:00:22	79.217	(-0.63, 2.73, 2.08, 3.20, -0.18)			
SA	Rosenbrock	5	0	#10	6000	0:00:22	79.546	(3.23, 2.85, -0.91, 2.60, 2.92)			
SA	Rosenbrock	5	0	#11	6000	0:00:21	79.464	(-1.61, -5.92, 0.29, -0.69, -3.24)			
SA	Rosenbrock	5	0	#12	6000	0:00:22	79.208	(5.06, -8.77, -2.61, 2.36, 4.62)			
SA	Rosenbrock	5	0	#13	6000	0:00:21	79.343	(3.53, -4.58, -1.54, 0.74, -2.82)			
SA	Rosenbrock	5	0	#14	6000	0:00:22	79.368	(1.02, 2.56, -1.73, -2.37, -2.42)			
SA	Rosenbrock	5	0	#15	6000	0:00:21	78.967	(2.13, 1.33, -1.89, 2.11, -5.36)			
SA	Rosenbrock	5	1	#1	6000	0:00:26	80.727	(1.45, -4.61, -0.15, 5.16, 0.65)	80.636	0.556	38.130
SA	Rosenbrock	5	1	#2	6000	0:00:26	80.662	(-0.23, 6.39, -0.99, 1.21, 1.90)			
SA	Rosenbrock	5	1	#3	6000	0:00:26	80.513	(-3.31, -1.93, 1.68, 5.04, -0.08)			
SA	Rosenbrock	5	1	#4	6000	0:00:26	80.641	(-5.75, -1.80, 0.32, -0.42, 2.37)			
SA	Rosenbrock	5	1	#5	6000	0:00:26	80.831	(4.75, -9.84, 1.61, 1.74, 5.41)			
SA	Rosenbrock	5	1	#6	6000	0:00:26	80.019	(4.11, 2.03, 3.64, 0.18, 3.96)			
SA	Rosenbrock	5	1	#7	6000	0:00:26	80.074	(0.85, 0.28, 0.98, -0.57, 9.89)			
SA	Rosenbrock	5	1	#8	6000	0:00:26	82.104	(-1.14, 0.69, 1.43, -1.99, -0.68)			
SA	Rosenbrock	5	1	#9	6000	0:00:26	80.466	(-0.29, -6.03, 1.60, -5.04, 3.62)			
SA	Rosenbrock	5	1	#10	6000	0:00:26	80.375	(0.36, -11.29, -2.68, -2.00, -6.11)			
SA	Rosenbrock	5	1	#11	6000	0:00:26	81.047	(-4.29, -7.75, 0.42, 0.04, -3.73)			
SA	Rosenbrock	5	1	#12	6000	0:00:26	80.361	(2.38, -2.98, 1.77, -1.05, 0.62)			
SA	Rosenbrock	5	1	#13	6000	0:00:26	81.384	(-3.09, -7.23, -0.99, 6.28, 3.99)			
SA	Rosenbrock	5	1	#14	6000	0:00:26	79.974	(3.60, 6.88, -0.92, 3.90, 2.61)			
SA	Rosenbrock	5	1	#15	6000	0:00:29	80.359	(-4.38, 5.79, -0.06, 0.99, -5.16)			
SA	Rosenbrock	5	2	#1	6000	0:00:27	83.045	(5.01, 0.96, -0.57, 2.54, 5.15)	83.033	1.122	38.383
SA	Rosenbrock	5	2	#2	6000	0:00:26	84.111	(-1.47, -0.26, 0.05, 4.85, 0.75)			
SA	Rosenbrock	5	2	#3	6000	0:00:26	83.401	(1.11, -6.94, -0.53, 0.91, -7.94)			
SA	Rosenbrock	5	2	#4	6000	0:00:26	83.022	(-2.86, 1.60, -1.13, 2.61, 2.28)			
SA	Rosenbrock	5	2	#5	6000	0:00:26	82.256	(3.89, -9.03, -3.03, 4.76, 1.49)			
SA	Rosenbrock	5	2	#6	6000	0:00:26	84.488	(-3.49, -9.19, 1.79, 4.72, -4.11)			
SA	Rosenbrock	5	2	#7	6000	0:00:26	82.664	(4.62, -5.88, -1.00, 1.73, 8.92)			
SA	Rosenbrock	5	2	#8	6000	0:00:26	81.374	(7.46, -8.10, -3.24, 5.14, 18.63)			
SA	Rosenbrock	5	2	#9	6000	0:00:26	82.977	(4.68, -4.31, -1.03, -2.27, 3.19)			
SA	Rosenbrock	5	2	#10	6000	0:00:26	81.41	(3.52, 3.94, -5.04, 2.61, 5.01)			
SA	Rosenbrock	5	2	#11	6000	0:00:26	83.578	(0.29, 4.97, -2.19, -3.82, -2.08)			
SA	Rosenbrock	5	2	#12	6000	0:00:26	83.177	(-1.41, 1.07, -3.41, -1.39, -5.75)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Rosenbrock	5	2	#13	6000	0:00:26	81.333	(-1.11, 3.77, 0.13, 5.55, 3.32)			
SA	Rosenbrock	5	2	#14	6000	0:00:26	85.193	(-2.28, -1.30, 1.14, 5.19, -3.56)			
SA	Rosenbrock	5	2	#15	6000	0:00:26	83.471	(-0.74, 2.89, 2.08, 1.82, 8.18)			
SA	Rosenbrock	5	3	#1	6000	0:00:26	85.648	(-4.40, -1.82, -4.23, 4.52, 1.24)	84.859	1.126	38.572
SA	Rosenbrock	5	3	#2	6000	0:00:26	84.391	(-0.50, -1.98, 1.69, 10.46, -7.71)			
SA	Rosenbrock	5	3	#3	6000	0:00:26	85.551	(3.54, -6.29, -1.33, 4.91, 0.31)			
SA	Rosenbrock	5	3	#4	6000	0:00:26	85.03	(-3.36, -5.85, 0.59, 1.87, 3.70)			
SA	Rosenbrock	5	3	#5	6000	0:00:26	84.803	(-7.57, -7.14, -6.29, 12.26, 10.84)			
SA	Rosenbrock	5	3	#6	6000	0:00:26	81.723	(3.05, -12.80, -2.90, 7.87, -8.29)			
SA	Rosenbrock	5	3	#7	6000	0:00:26	85.315	(5.75, 5.84, -4.00, 1.75, 13.26)			
SA	Rosenbrock	5	3	#8	6000	0:00:26	83.948	(2.45, -1.13, 0.00, 2.99, 2.35)			
SA	Rosenbrock	5	3	#9	6000	0:00:26	84.263	(-1.24, -3.11, 0.08, -4.71, 2.82)			
SA	Rosenbrock	5	3	#10	6000	0:00:27	84.216	(-0.22, 2.34, -1.81, -2.40, 5.98)			
SA	Rosenbrock	5	3	#11	6000	0:00:26	85.947	(-6.91, -11.40, -4.15, 10.29, 5.89)			
SA	Rosenbrock	5	3	#12	6000	0:00:26	86.671	(-4.40, -8.93, -1.56, 12.52, 9.18)			
SA	Rosenbrock	5	3	#13	6000	0:00:26	85.108	(-7.15, -8.05, -4.60, 10.35, 7.06)			
SA	Rosenbrock	5	3	#14	6000	0:00:26	84.932	(-3.56, -11.01, -1.60, 6.48, 0.85)			
SA	Rosenbrock	5	3	#15	6000	0:00:26	85.333	(2.58, 0.56, 3.66, 0.78, -2.32)			
SA	Styblinski	5	0	#1	6000	0:00:21	309.326	(-0.90, -1.80, -0.80, -1.24, -0.07)	332.074	22.790	50.370
SA	Styblinski	5	0	#2	6000	0:00:22	310.638	(-1.61, -3.68, 1.85, 4.81, 4.74)			
SA	Styblinski	5	0	#3	6000	0:00:21	361.287	(-2.44, -1.27, -2.65, 2.62, 0.86)			
SA	Styblinski	5	0	#4	6000	0:00:22	360.519	(-2.38, -3.14, 2.99, 0.54, -2.42)			
SA	Styblinski	5	0	#5	6000	0:00:21	313.644	(3.10, 0.88, -2.92, -2.62, -2.75)			
SA	Styblinski	5	0	#6	6000	0:00:21	354.083	(1.96, -2.93, 2.77, 0.04, 2.62)			
SA	Styblinski	5	0	#7	6000	0:00:22	325.187	(3.42, 1.59, 2.48, 1.05, -0.89)			
SA	Styblinski	5	0	#8	6000	0:00:21	305.813	(3.34, 3.44, 2.09, -3.27, -1.42)			
SA	Styblinski	5	0	#9	6000	0:00:22	327.155	(-1.85, -2.57, -0.16, -0.62, -2.07)			
SA	Styblinski	5	0	#10	6000	0:00:21	372.093	(-2.58, -2.73, 2.37, 0.66, 2.50)			
SA	Styblinski	5	0	#11	6000	0:00:22	342.672	(-2.54, 2.93, -1.92, 5.46, 2.26)			
SA	Styblinski	5	0	#12	6000	0:00:21	319.123	(4.11, -3.02, -3.61, 1.58, 3.24)			
SA	Styblinski	5	0	#13	6000	0:00:22	348.102	(-2.98, 0.74, -2.39, 0.44, -0.84)			
SA	Styblinski	5	0	#14	6000	0:00:21	302.053	(3.53, -3.71, -4.23, 1.56, -1.04)			
SA	Styblinski	5	0	#15	6000	0:00:22	329.417	(2.18, -3.33, -1.85, 6.32, 1.51)			
SA	Styblinski	5	1	#1	6000	0:00:26	333.901	(-3.56, -2.52, -0.03, 3.16, -0.89)	327.986	17.121	50.285
SA	Styblinski	5	1	#2	6000	0:00:26	300.773	(1.17, 1.34, -3.33, 0.67, 6.22)			
SA	Styblinski	5	1	#3	6000	0:00:26	322.061	(-0.85, -2.79, 2.15, -2.50, -1.57)			
SA	Styblinski	5	1	#4	6000	0:00:25	332.458	(3.32, -2.95, -1.87, 5.58, -1.40)			
SA	Styblinski	5	1	#5	6000	0:00:26	325.125	(-1.14, -1.28, -1.78, -0.06, 1.68)			
SA	Styblinski	5	1	#6	6000	0:00:26	339.085	(-0.99, 3.26, -2.85, 3.03, 0.23)			
SA	Styblinski	5	1	#7	6000	0:00:26	324.964	(0.37, -3.15, 3.35, 3.53, 1.48)			
SA	Styblinski	5	1	#8	6000	0:00:26	333.932	(2.45, -2.25, -0.73, -0.07, -0.20)			
SA	Styblinski	5	1	#9	6000	0:00:26	305.214	(-3.79, -1.14, -3.78, 5.76, -0.24)			
SA	Styblinski	5	1	#10	6000	0:00:26	335.873	(-2.88, 3.33, -1.25, -2.17, 2.03)			
SA	Styblinski	5	1	#11	6000	0:00:26	358.207	(-2.01, 2.62, -2.39, 3.49, 0.83)			
SA	Styblinski	5	1	#12	6000	0:00:26	310.461	(1.98, -3.20, -0.82, -0.98, -3.92)			
SA	Styblinski	5	1	#13	6000	0:00:26	307.044	(1.89, -3.92, 1.77, -2.57, -0.22)			
SA	Styblinski	5	1	#14	6000	0:00:26	334.063	(1.25, -3.36, 1.70, 0.30, 0.65)			
SA	Styblinski	5	1	#15	6000	0:00:26	356.634	(-2.59, -2.98, -1.06, -1.57, 1.72)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
SA	Styblinski	5	2	#1	6000	0:00:26	324.243	(-3.26, 2.39, 2.79, -2.95, 5.42)	325.175	23.895	50.186
SA	Styblinski	5	2	#2	6000	0:00:26	361.527	(-2.95, -2.19, -2.48, -0.11, 5.79)			
SA	Styblinski	5	2	#3	6000	0:00:26	336.138	(-3.21, 2.36, 2.53, -1.12, -3.23)			
SA	Styblinski	5	2	#4	6000	0:00:26	334.991	(-2.61, 1.33, 3.27, 3.67, 1.30)			
SA	Styblinski	5	2	#5	6000	0:00:26	337.461	(-3.68, -2.51, -3.98, 1.81, -2.23)			
SA	Styblinski	5	2	#6	6000	0:00:26	326.91	(-1.47, 3.43, -2.12, 4.56, 1.95)			
SA	Styblinski	5	2	#7	6000	0:00:25	317.716	(1.81, -2.82, -1.62, 0.36, -4.77)			
SA	Styblinski	5	2	#8	6000	0:00:26	343.026	(-2.70, 3.80, -3.23, -2.08, 1.78)			
SA	Styblinski	5	2	#9	6000	0:00:26	306.659	(-2.83, 4.07, -3.67, -1.79, 4.09)			
SA	Styblinski	5	2	#10	6000	0:00:26	290.338	(-2.10, -1.70, 1.85, 4.46, -5.59)			
SA	Styblinski	5	2	#11	6000	0:00:26	313.251	(3.58, 0.11, -2.62, 2.45, 4.10)			
SA	Styblinski	5	2	#12	6000	0:00:26	370.716	(-3.61, -2.75, -3.28, -0.30, 4.10)			
SA	Styblinski	5	2	#13	6000	0:00:26	327.217	(-3.40, 3.62, -0.87, 0.42, 0.58)			
SA	Styblinski	5	2	#14	6000	0:00:26	284.496	(-3.27, 1.30, -3.11, -0.21, 9.55)			
SA	Styblinski	5	2	#15	6000	0:00:26	302.932	(1.50, -3.89, 2.60, -0.27, -3.98)			
SA	Styblinski	5	3	#1	6000	0:00:26	314.225	(3.43, 2.10, -3.19, -2.03, 6.16)	331.430	17.772	50.376
SA	Styblinski	5	3	#2	6000	0:00:26	343.192	(-2.01, -3.15, 2.25, -2.37, 4.23)			
SA	Styblinski	5	3	#3	6000	0:00:26	353.623	(2.61, -1.77, -2.62, -0.59, 2.43)			
SA	Styblinski	5	3	#4	6000	0:00:26	338.953	(-2.68, -0.75, -3.63, 3.80, 2.61)			
SA	Styblinski	5	3	#5	6000	0:00:26	345.535	(-1.01, 3.27, -2.76, 2.42, 3.11)			
SA	Styblinski	5	3	#6	6000	0:00:26	343.868	(3.07, -3.55, -3.58, 3.70, -2.21)			
SA	Styblinski	5	3	#7	6000	0:00:25	312.797	(2.60, -2.26, -2.11, 8.29, 2.06)			
SA	Styblinski	5	3	#8	6000	0:00:25	337.422	(-2.31, -3.27, 3.17, 0.71, -5.01)			
SA	Styblinski	5	3	#9	6000	0:00:26	302.687	(-0.69, -1.93, -1.92, 6.68, 2.48)			
SA	Styblinski	5	3	#10	6000	0:00:26	315.413	(-0.09, -2.37, -2.20, 4.86, -1.55)			
SA	Styblinski	5	3	#11	6000	0:00:26	321.923	(-3.88, 2.68, -0.87, -1.10, -0.25)			
SA	Styblinski	5	3	#12	6000	0:00:26	349.984	(2.52, -1.52, -3.24, 0.91, -1.02)			
SA	Styblinski	5	3	#13	6000	0:00:26	329.735	(-2.98, 2.46, -2.60, -3.72, -3.97)			
SA	Styblinski	5	3	#14	6000	0:00:26	355.349	(-2.25, -1.67, -1.94, 1.90, -1.17)			
SA	Styblinski	5	3	#15	6000	0:00:26	306.748	(2.72, 2.77, 1.64, -4.51, 0.06)			

ตารางที่ 3. แสดงผลการทดสอบปัญหาในการวิจัยด้วยวิธีฝูงมด

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Branin	2	0	#1	8926	0:00:09	5.922	(9.42, 2.47)	5.922	0.000	15.449
ACO	Branin	2	0	#2	9002	0:00:09	5.922	(15.71, 12.88)			
ACO	Branin	2	0	#3	8936	0:00:09	5.922	(15.71, 12.87)			
ACO	Branin	2	0	#4	8964	0:00:08	5.922	(-3.14, 12.28)			
ACO	Branin	2	0	#5	9078	0:00:09	5.922	(3.14, 2.27)			
ACO	Branin	2	0	#6	9034	0:00:09	5.922	(3.14, 2.28)			
ACO	Branin	2	0	#7	9006	0:00:09	5.922	(15.71, 12.88)			
ACO	Branin	2	0	#8	8872	0:00:09	5.922	(9.42, 2.47)			
ACO	Branin	2	0	#9	8904	0:00:09	5.922	(3.14, 2.28)			
ACO	Branin	2	0	#10	9026	0:00:09	5.922	(15.71, 12.87)			
ACO	Branin	2	0	#11	9067	0:00:09	5.922	(15.71, 12.88)			
ACO	Branin	2	0	#12	8962	0:00:08	5.922	(3.14, 2.27)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Branin	2	0	#13	9141	0:00:09	5.922	(15.71, 12.87)			
ACO	Branin	2	0	#14	9057	0:00:09	5.922	(15.71, 12.87)			
ACO	Branin	2	0	#15	9135	0:00:09	5.922	(15.71, 12.87)			
ACO	Branin	2	1	#1	11508	0:01:50	8.816	(-3.05, 11.76)	9.047	0.315	19.118
ACO	Branin	2	1	#2	11538	0:01:52	8.525	(-3.19, 12.18)			
ACO	Branin	2	1	#3	11456	0:01:48	8.685	(15.65, 12.53)			
ACO	Branin	2	1	#4	11465	0:01:44	9.019	(-3.15, 12.09)			
ACO	Branin	2	1	#5	11546	0:01:51	9.218	(9.48, 3.38)			
ACO	Branin	2	1	#6	11545	0:01:51	9.286	(9.48, 2.63)			
ACO	Branin	2	1	#7	11400	0:01:59	9.527	(3.15, 2.10)			
ACO	Branin	2	1	#8	11583	0:01:55	9.298	(3.15, 2.54)			
ACO	Branin	2	1	#9	11403	0:01:52	9.181	(15.70, 12.69)			
ACO	Branin	2	1	#10	11502	0:01:48	8.915	(15.73, 12.50)			
ACO	Branin	2	1	#11	11624	0:01:50	9.055	(-3.17, 12.30)			
ACO	Branin	2	1	#12	11619	0:01:48	9.612	(9.49, 2.60)			
ACO	Branin	2	1	#13	11598	0:01:55	8.959	(9.40, 2.24)			
ACO	Branin	2	1	#14	11535	0:01:54	8.616	(-3.22, 12.80)			
ACO	Branin	2	1	#15	11393	0:01:47	8.988	(9.46, 2.37)			
ACO	Branin	2	2	#1	11971	0:01:56	13.05	(-3.14, 12.34)	12.003	0.832	21.531
ACO	Branin	2	2	#2	11925	0:01:51	11.39	(15.62, 12.50)			
ACO	Branin	2	2	#3	11969	0:01:51	11.65	(22.23, 34.19)			
ACO	Branin	2	2	#4	12058	0:01:53	12.41	(3.39, 2.47)			
ACO	Branin	2	2	#5	12007	0:01:51	11.29	(9.26, 2.77)			
ACO	Branin	2	2	#6	11907	0:01:55	11.47	(-2.98, 11.40)			
ACO	Branin	2	2	#7	12048	0:01:53	11.89	(9.49, 2.77)			
ACO	Branin	2	2	#8	11860	0:01:58	12.47	(2.85, 2.43)			
ACO	Branin	2	2	#9	12012	0:01:51	11.13	(-9.54, 32.37)			
ACO	Branin	2	2	#10	11905	0:01:56	13.69	(3.15, 1.98)			
ACO	Branin	2	2	#11	12240	0:01:55	11.92	(9.56, 2.72)			
ACO	Branin	2	2	#12	11905	0:01:55	12.23	(9.52, 2.49)			
ACO	Branin	2	2	#13	12075	0:01:47	10.96	(9.24, 2.11)			
ACO	Branin	2	2	#14	11983	0:01:54	13.26	(-2.85, 11.64)			
ACO	Branin	2	2	#15	12205	0:02:01	11.25	(-2.97, 11.31)			
ACO	Branin	2	3	#1	12065	0:01:59	14.42	(3.13, 1.94)	14.677	0.993	23.281
ACO	Branin	2	3	#2	12109	0:01:51	16.41	(3.05, 4.04)			
ACO	Branin	2	3	#3	12037	0:01:53	15.49	(-2.68, 10.94)			
ACO	Branin	2	3	#4	12130	0:01:54	14.68	(3.31, 2.20)			
ACO	Branin	2	3	#5	12347	0:01:48	13.85	(9.19, 4.50)			
ACO	Branin	2	3	#6	12121	0:01:54	16.02	(-3.18, 12.81)			
ACO	Branin	2	3	#7	12122	0:01:57	13.74	(3.42, 6.08)			
ACO	Branin	2	3	#8	12127	0:01:50	15.44	(3.40, 2.00)			
ACO	Branin	2	3	#9	12206	0:01:47	13.74	(-2.99, 11.12)			
ACO	Branin	2	3	#10	12298	0:01:55	14.21	(3.20, 2.49)			
ACO	Branin	2	3	#11	12161	0:01:38	16.06	(15.60, 12.96)			
ACO	Branin	2	3	#12	12154	0:01:46	15.07	(2.70, 2.55)			
ACO	Branin	2	3	#13	12252	0:01:56	13.75	(-2.56, 10.70)			
ACO	Branin	2	3	#14	12154	0:01:45	13.59	(-9.63, 33.31)			
ACO	Branin	2	3	#15	12171	0:01:46	13.69	(3.06, 1.34)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Camelback	2	0	#1	9006	0:00:10	42.78	(0.00, 0.00)	35.836	7.800	30.316
ACO	Camelback	2	0	#2	9067	0:00:09	41.78	(0.00, 0.00)			
ACO	Camelback	2	0	#3	8944	0:00:09	39.02	(0.00, 0.00)			
ACO	Camelback	2	0	#4	9037	0:00:10	21.04	(0.00, 0.00)			
ACO	Camelback	2	0	#5	9044	0:00:09	39.24	(0.00, 0.00)			
ACO	Camelback	2	0	#6	8932	0:00:10	37.52	(0.00, 0.00)			
ACO	Camelback	2	0	#7	9069	0:00:09	39.13	(0.00, 0.00)			
ACO	Camelback	2	0	#8	9044	0:00:09	21.04	(0.00, 0.00)			
ACO	Camelback	2	0	#9	8959	0:00:10	21.04	(0.00, 0.00)			
ACO	Camelback	2	0	#10	8995	0:00:09	39.77	(0.00, 0.00)			
ACO	Camelback	2	0	#11	8963	0:00:10	38.57	(0.00, 0.00)			
ACO	Camelback	2	0	#12	9115	0:00:09	37.33	(0.00, 0.00)			
ACO	Camelback	2	0	#13	9067	0:00:09	40.75	(0.00, 0.00)			
ACO	Camelback	2	0	#14	9090	0:00:09	37.93	(0.00, 0.00)			
ACO	Camelback	2	0	#15	8962	0:00:10	40.59	(0.00, 0.00)			
ACO	Camelback	2	1	#1	9522	0:01:50	43.75	(0.00, 0.00)	44.551	2.607	32.939
ACO	Camelback	2	1	#2	9628	0:01:48	49.53	(0.00, 0.00)			
ACO	Camelback	2	1	#3	9378	0:01:51	41.5	(0.00, 0.00)			
ACO	Camelback	2	1	#4	9400	0:01:53	43.48	(0.00, 0.00)			
ACO	Camelback	2	1	#5	9386	0:01:56	45.9	(0.00, 0.00)			
ACO	Camelback	2	1	#6	9157	0:01:55	40.95	(0.00, 0.00)			
ACO	Camelback	2	1	#7	9342	0:01:54	43.59	(0.00, 0.00)			
ACO	Camelback	2	1	#8	9442	0:01:56	43.61	(0.00, 0.00)			
ACO	Camelback	2	1	#9	9322	0:01:53	46.59	(0.00, 0.00)			
ACO	Camelback	2	1	#10	9473	0:01:48	44.33	(0.00, 0.00)			
ACO	Camelback	2	1	#11	9570	0:01:48	44.19	(0.00, 0.00)			
ACO	Camelback	2	1	#12	9427	0:01:51	42.2	(0.00, 0.00)			
ACO	Camelback	2	1	#13	9241	0:01:55	50.11	(0.00, 0.00)			
ACO	Camelback	2	1	#14	9557	0:01:54	45.2	(0.00, 0.00)			
ACO	Camelback	2	1	#15	9547	0:01:55	43.34	(0.00, 0.00)			
ACO	Camelback	2	2	#1	11005	0:01:41	41.18	(0.00, 0.00)	43.883	2.087	32.823
ACO	Camelback	2	2	#2	10659	0:01:52	44.21	(0.00, 0.00)			
ACO	Camelback	2	2	#3	10606	0:01:50	49.01	(0.00, 0.00)			
ACO	Camelback	2	2	#4	11068	0:01:52	45.56	(0.00, 0.00)			
ACO	Camelback	2	2	#5	10526	0:01:53	43.4	(0.00, 0.00)			
ACO	Camelback	2	2	#6	10730	0:01:41	44.77	(0.00, 0.00)			
ACO	Camelback	2	2	#7	10727	0:01:56	43.82	(0.00, 0.00)			
ACO	Camelback	2	2	#8	10668	0:01:49	45.47	(0.00, 0.00)			
ACO	Camelback	2	2	#9	10626	0:01:51	44.58	(0.00, 0.00)			
ACO	Camelback	2	2	#10	10708	0:01:42	43.35	(0.00, 0.00)			
ACO	Camelback	2	2	#11	10959	0:01:55	42.05	(0.00, 0.00)			
ACO	Camelback	2	2	#12	10405	0:01:49	40.2	(0.00, 0.00)			
ACO	Camelback	2	2	#13	10749	0:01:54	44.73	(0.00, 0.00)			
ACO	Camelback	2	2	#14	11250	0:01:49	42.3	(0.00, 0.00)			
ACO	Camelback	2	2	#15	10449	0:01:52	43.63	(0.00, 0.00)			
ACO	Camelback	2	3	#1	11798	0:01:52	44.47	(0.00, 0.00)	45.424	10.894	32.646
ACO	Camelback	2	3	#2	11363	0:01:47	41.53	(0.00, 0.00)			
ACO	Camelback	2	3	#3	11709	0:01:44	45.22	(0.00, 0.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Camelback	2	3	#4	11583	0:01:52	79.35	(0.00, 0.00)			
ACO	Camelback	2	3	#5	11489	0:01:52	46.22	(0.00, 0.00)			
ACO	Camelback	2	3	#6	11629	0:01:51	41.69	(0.00, 0.00)			
ACO	Camelback	2	3	#7	11601	0:01:52	44.16	(0.00, 0.00)			
ACO	Camelback	2	3	#8	11244	0:01:48	46.4	(0.00, 0.00)			
ACO	Camelback	2	3	#9	11495	0:01:50	45.03	(0.00, 0.00)			
ACO	Camelback	2	3	#10	11369	0:01:51	48.58	(0.00, 0.00)			
ACO	Camelback	2	3	#11	11670	0:01:54	40.37	(0.00, 0.00)			
ACO	Camelback	2	3	#12	11589	0:01:43	39.48	(0.00, 0.00)			
ACO	Camelback	2	3	#13	11293	0:01:46	43.65	(0.00, 0.00)			
ACO	Camelback	2	3	#14	11820	0:01:48	25.75	(-0.01, 0.00)			
ACO	Camelback	2	3	#15	11437	0:01:49	49.46	(0.00, 0.00)			
ACO	GoldsteinPrice	2	0	#1	8995	0:00:10	8.901	(0.00, -1.00)	8.901	0.000	18.989
ACO	GoldsteinPrice	2	0	#2	8932	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#3	8971	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#4	8875	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#5	8957	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#6	8926	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#7	8954	0:00:09	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#8	8889	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#9	8866	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#10	8883	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#11	8820	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#12	8895	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#13	8933	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#14	8917	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	0	#15	8802	0:00:10	8.901	(0.00, -1.00)			
ACO	GoldsteinPrice	2	1	#1	10320	0:01:43	11.63	(0.03, -0.96)	12.033	0.376	21.596
ACO	GoldsteinPrice	2	1	#2	10239	0:01:33	11.5	(0.03, -1.01)			
ACO	GoldsteinPrice	2	1	#3	10346	0:01:44	12.54	(0.00, -1.00)			
ACO	GoldsteinPrice	2	1	#4	10061	0:01:42	12.11	(0.07, -1.01)			
ACO	GoldsteinPrice	2	1	#5	10245	0:01:46	11.67	(0.05, -0.99)			
ACO	GoldsteinPrice	2	1	#6	10221	0:01:48	12.14	(-0.01, -1.02)			
ACO	GoldsteinPrice	2	1	#7	10232	0:01:45	11.97	(-0.02, -1.04)			
ACO	GoldsteinPrice	2	1	#8	10299	0:01:52	11.68	(0.06, -0.94)			
ACO	GoldsteinPrice	2	1	#9	10278	0:01:47	12.02	(0.01, -1.03)			
ACO	GoldsteinPrice	2	1	#10	10480	0:01:39	12.32	(0.00, -0.97)			
ACO	GoldsteinPrice	2	1	#11	10467	0:01:45	11.72	(-0.01, -1.05)			
ACO	GoldsteinPrice	2	1	#12	10044	0:01:50	12.56	(0.03, -0.97)			
ACO	GoldsteinPrice	2	1	#13	10393	0:01:44	11.72	(0.00, -0.99)			
ACO	GoldsteinPrice	2	1	#14	10173	0:01:57	12.65	(-0.04, -1.05)			
ACO	GoldsteinPrice	2	1	#15	10211	0:01:53	12.26	(0.03, -1.01)			
ACO	GoldsteinPrice	2	2	#1	11175	0:01:48	14.1	(0.02, -0.89)	14.746	0.713	23.346
ACO	GoldsteinPrice	2	2	#2	11370	0:01:44	14.08	(0.02, -1.02)			
ACO	GoldsteinPrice	2	2	#3	11117	0:01:48	15.31	(0.03, -1.01)			
ACO	GoldsteinPrice	2	2	#4	11075	0:01:52	15.68	(-0.02, -0.97)			
ACO	GoldsteinPrice	2	2	#5	11044	0:01:46	14.2	(0.07, -0.99)			
ACO	GoldsteinPrice	2	2	#6	11278	0:01:42	14.89	(-0.02, -0.98)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	GoldsteinPrice	2	2	#7	11331	0:01:59	14.56	(0.09, -1.06)			
ACO	GoldsteinPrice	2	2	#8	11196	0:01:40	14.73	(0.04, -0.97)			
ACO	GoldsteinPrice	2	2	#9	11444	0:01:50	15.36	(-0.03, -1.02)			
ACO	GoldsteinPrice	2	2	#10	11267	0:01:51	13.73	(0.01, -1.00)			
ACO	GoldsteinPrice	2	2	#11	11200	0:01:48	15.34	(-0.01, -1.00)			
ACO	GoldsteinPrice	2	2	#12	11344	0:01:41	14.23	(-0.07, -0.96)			
ACO	GoldsteinPrice	2	2	#13	11192	0:01:51	16.03	(0.10, -0.96)			
ACO	GoldsteinPrice	2	2	#14	11212	0:01:43	13.82	(-0.08, -0.94)			
ACO	GoldsteinPrice	2	2	#15	11248	0:01:41	15.14	(0.04, -0.96)			
ACO	GoldsteinPrice	2	3	#1	11670	0:01:47	20.44	(-0.01, -0.99)	17.595	1.110	24.862
ACO	GoldsteinPrice	2	3	#2	11646	0:01:50	17.43	(0.00, -0.98)			
ACO	GoldsteinPrice	2	3	#3	11509	0:01:46	17.5	(-0.07, -0.97)			
ACO	GoldsteinPrice	2	3	#4	11915	0:01:51	16.88	(-0.11, -0.93)			
ACO	GoldsteinPrice	2	3	#5	11744	0:01:54	16.17	(0.05, -0.91)			
ACO	GoldsteinPrice	2	3	#6	11660	0:01:54	17.47	(0.04, -1.00)			
ACO	GoldsteinPrice	2	3	#7	11752	0:01:58	16.32	(0.00, -1.01)			
ACO	GoldsteinPrice	2	3	#8	11531	0:01:51	18.28	(-0.07, -0.90)			
ACO	GoldsteinPrice	2	3	#9	11660	0:01:44	17.62	(-0.04, -0.96)			
ACO	GoldsteinPrice	2	3	#10	11659	0:01:50	17.63	(-0.10, -1.01)			
ACO	GoldsteinPrice	2	3	#11	11769	0:01:43	15.88	(0.03, -0.95)			
ACO	GoldsteinPrice	2	3	#12	11633	0:01:54	18.36	(-0.04, -1.00)			
ACO	GoldsteinPrice	2	3	#13	11664	0:01:48	18.37	(-0.73, -0.24)			
ACO	GoldsteinPrice	2	3	#14	11584	0:01:46	17.45	(-0.06, -0.93)			
ACO	GoldsteinPrice	2	3	#15	11773	0:01:59	18.14	(-0.11, -1.01)			
ACO	Parabolic	2	0	#1	8941	0:00:09	12	(0.00, 0.00)	12.000	0.000	21.584
ACO	Parabolic	2	0	#2	8887	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#3	8981	0:00:08	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#4	8956	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#5	8969	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#6	8979	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#7	8837	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#8	8959	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#9	8964	0:00:08	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#10	9047	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#11	8901	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#12	8944	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#13	9109	0:00:08	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#14	8925	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	0	#15	8839	0:00:09	12	(0.00, 0.00)			
ACO	Parabolic	2	1	#1	12498	0:01:49	15.38	(-0.54, 1.04)	15.321	0.342	23.699
ACO	Parabolic	2	1	#2	12300	0:01:57	15.94	(1.47, 2.37)			
ACO	Parabolic	2	1	#3	12311	0:01:51	15.06	(6.48, -0.67)			
ACO	Parabolic	2	1	#4	12332	0:02:04	15.59	(-1.80, 3.20)			
ACO	Parabolic	2	1	#5	12399	0:01:50	14.72	(2.95, 2.59)			
ACO	Parabolic	2	1	#6	12251	0:01:54	15.43	(3.31, -2.70)			
ACO	Parabolic	2	1	#7	12296	0:01:54	15.26	(4.98, 2.48)			
ACO	Parabolic	2	1	#8	12277	0:01:52	15.03	(2.82, -3.55)			
ACO	Parabolic	2	1	#9	12296	0:01:59	15.12	(1.96, -2.46)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Parabolic	2	1	#10	12353	0:01:54	15.82	(-0.57, 2.13)			
ACO	Parabolic	2	1	#11	12308	0:01:58	15.14	(1.62, 0.11)			
ACO	Parabolic	2	1	#12	12336	0:02:04	15.51	(-1.99, -1.28)			
ACO	Parabolic	2	1	#13	12267	0:01:56	15.56	(-2.02, -0.45)			
ACO	Parabolic	2	1	#14	12264	0:01:59	15.42	(-1.30, 1.79)			
ACO	Parabolic	2	1	#15	12254	0:01:57	14.83	(-0.28, 2.67)			
ACO	Parabolic	2	2	#1	12294	0:01:52	18.06	(7.42, 1.63)	18.520	0.942	25.326
ACO	Parabolic	2	2	#2	12288	0:01:58	18.37	(-7.32, 4.72)			
ACO	Parabolic	2	2	#3	12406	0:01:49	17.46	(-0.26, -2.74)			
ACO	Parabolic	2	2	#4	12340	0:01:42	18.05	(-1.67, -1.75)			
ACO	Parabolic	2	2	#5	12361	0:01:47	18.02	(0.10, 0.13)			
ACO	Parabolic	2	2	#6	12334	0:02:03	18.61	(3.94, 0.40)			
ACO	Parabolic	2	2	#7	12275	0:01:56	18.75	(1.54, 3.02)			
ACO	Parabolic	2	2	#8	12382	0:01:50	18.17	(-1.19, -2.54)			
ACO	Parabolic	2	2	#9	12414	0:01:49	18.2	(-5.06, -3.36)			
ACO	Parabolic	2	2	#10	12283	0:01:53	19.69	(-1.01, 4.38)			
ACO	Parabolic	2	2	#11	12269	0:01:55	18.68	(-0.76, -0.44)			
ACO	Parabolic	2	2	#12	12380	0:02:04	20.56	(-1.98, 3.61)			
ACO	Parabolic	2	2	#13	12292	0:01:58	20.16	(0.35, -2.86)			
ACO	Parabolic	2	2	#14	12529	0:01:47	17.55	(7.98, 3.41)			
ACO	Parabolic	2	2	#15	12184	0:01:52	17.48	(-1.14, -3.05)			
ACO	Parabolic	2	3	#1	12348	0:01:49	21.29	(-1.51, 3.31)	22.268	1.231	26.920
ACO	Parabolic	2	3	#2	12260	0:01:53	22.46	(-3.92, -1.57)			
ACO	Parabolic	2	3	#3	12320	0:01:57	24.19	(-8.17, 2.26)			
ACO	Parabolic	2	3	#4	12354	0:01:52	21.82	(-1.79, -2.10)			
ACO	Parabolic	2	3	#5	12305	0:01:58	21.66	(8.72, -4.80)			
ACO	Parabolic	2	3	#6	12250	0:01:53	22.6	(-5.12, 6.87)			
ACO	Parabolic	2	3	#7	12318	0:02:03	22.74	(1.09, 4.85)			
ACO	Parabolic	2	3	#8	12430	0:02:04	22.62	(-6.73, -6.33)			
ACO	Parabolic	2	3	#9	12296	0:01:50	20.37	(6.66, -1.52)			
ACO	Parabolic	2	3	#10	12404	0:01:58	20.34	(7.54, -1.23)			
ACO	Parabolic	2	3	#11	12391	0:02:04	22.84	(-2.83, 9.13)			
ACO	Parabolic	2	3	#12	12428	0:01:54	20.9	(2.33, -5.84)			
ACO	Parabolic	2	3	#13	12373	0:01:56	23.41	(-2.10, 0.16)			
ACO	Parabolic	2	3	#14	12376	0:01:41	22.37	(3.55, 2.73)			
ACO	Parabolic	2	3	#15	12338	0:01:58	24.43	(6.26, 0.17)			
ACO	Shekel	2	0	#1	9192	0:00:13	18.98	(5.96, -6.96)	18.981	0.000	25.566
ACO	Shekel	2	0	#2	9210	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#3	9248	0:00:14	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#4	9058	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#5	9455	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#6	9599	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#7	9312	0:00:14	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#8	9050	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#9	9305	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#10	9203	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#11	9037	0:00:14	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#12	8998	0:00:14	18.98	(5.96, -6.96)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Shekel	2	0	#13	9080	0:00:14	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#14	9064	0:00:13	18.98	(5.96, -6.96)			
ACO	Shekel	2	0	#15	8970	0:00:14	18.98	(5.96, -6.96)			
ACO	Shekel	2	1	#1	11746	0:01:57	22.03	(5.86, -6.90)	22.003	0.259	26.848
ACO	Shekel	2	1	#2	11899	0:01:53	22.2	(6.26, -6.97)			
ACO	Shekel	2	1	#3	11854	0:01:53	21.65	(5.75, -7.22)			
ACO	Shekel	2	1	#4	11863	0:01:51	22	(5.62, -6.75)			
ACO	Shekel	2	1	#5	11768	0:01:59	22.29	(5.73, -6.88)			
ACO	Shekel	2	1	#6	11749	0:01:54	21.63	(5.89, -7.15)			
ACO	Shekel	2	1	#7	11724	0:02:00	22.18	(6.22, -6.72)			
ACO	Shekel	2	1	#8	11664	0:01:55	21.8	(5.78, -7.10)			
ACO	Shekel	2	1	#9	11695	0:01:52	21.8	(5.86, -7.06)			
ACO	Shekel	2	1	#10	11808	0:01:54	22.19	(5.92, -6.86)			
ACO	Shekel	2	1	#11	11653	0:01:48	22.5	(6.01, -7.18)			
ACO	Shekel	2	1	#12	11731	0:01:51	21.7	(5.64, -7.04)			
ACO	Shekel	2	1	#13	11883	0:01:45	22.2	(5.72, -7.07)			
ACO	Shekel	2	1	#14	11865	0:01:54	22.05	(6.24, -7.04)			
ACO	Shekel	2	1	#15	11789	0:01:56	21.84	(6.19, -6.75)			
ACO	Shekel	2	2	#1	11894	0:01:49	25.72	(5.92, -6.79)	24.950	0.648	27.934
ACO	Shekel	2	2	#2	12011	0:01:51	23.83	(5.91, -7.28)			
ACO	Shekel	2	2	#3	12055	0:01:58	24.88	(6.13, -6.85)			
ACO	Shekel	2	2	#4	11898	0:01:48	24.73	(5.96, -6.65)			
ACO	Shekel	2	2	#5	11930	0:01:57	24.76	(6.35, -7.04)			
ACO	Shekel	2	2	#6	11917	0:01:59	24.45	(6.09, -6.88)			
ACO	Shekel	2	2	#7	11893	0:02:02	25.72	(6.21, -7.11)			
ACO	Shekel	2	2	#8	11964	0:01:55	25	(6.20, -6.41)			
ACO	Shekel	2	2	#9	11912	0:01:51	24.87	(6.53, -6.44)			
ACO	Shekel	2	2	#10	11948	0:02:04	25.96	(6.00, -6.85)			
ACO	Shekel	2	2	#11	11836	0:01:54	25.82	(5.83, -7.07)			
ACO	Shekel	2	2	#12	11977	0:01:56	24.24	(5.77, -6.89)			
ACO	Shekel	2	2	#13	11898	0:01:50	25.4	(6.07, -7.01)			
ACO	Shekel	2	2	#14	11966	0:01:59	24.22	(5.61, -6.84)			
ACO	Shekel	2	2	#15	12004	0:01:52	24.66	(5.75, -6.94)			
ACO	Shekel	2	3	#1	11979	0:01:52	26.68	(5.96, -7.23)	28.097	0.875	28.964
ACO	Shekel	2	3	#2	11980	0:02:03	27.51	(6.50, -7.08)			
ACO	Shekel	2	3	#3	12093	0:01:45	27.39	(5.60, -6.68)			
ACO	Shekel	2	3	#4	12098	0:02:00	28.34	(6.00, -6.27)			
ACO	Shekel	2	3	#5	11940	0:01:49	27.64	(5.21, -6.94)			
ACO	Shekel	2	3	#6	12065	0:01:55	29.26	(6.60, -6.77)			
ACO	Shekel	2	3	#7	12013	0:01:54	28.42	(5.67, -6.98)			
ACO	Shekel	2	3	#8	11958	0:01:58	28.78	(5.99, -7.21)			
ACO	Shekel	2	3	#9	12006	0:01:54	29.72	(5.60, -7.09)			
ACO	Shekel	2	3	#10	12006	0:01:55	27.29	(6.24, -6.63)			
ACO	Shekel	2	3	#11	12061	0:01:51	27.23	(5.36, -7.32)			
ACO	Shekel	2	3	#12	12210	0:01:58	27.34	(5.70, -6.52)			
ACO	Shekel	2	3	#13	12050	0:02:02	28.86	(4.97, -6.51)			
ACO	Shekel	2	3	#14	12042	0:01:47	28.76	(5.32, -6.65)			
ACO	Shekel	2	3	#15	12086	0:01:54	28.26	(5.76, -7.20)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rastrigin	2	0	#1	8478	0:00:09	100	(0.00, 0.00)	99.736	1.022	39.976
ACO	Rastrigin	2	0	#2	8572	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#3	8589	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#4	8574	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#5	8396	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#6	8574	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#7	8482	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#8	8489	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#9	8617	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#10	8486	0:00:09	96.04	(1.98, 0.00)			
ACO	Rastrigin	2	0	#11	8518	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#12	8622	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#13	8579	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#14	8457	0:00:08	100	(0.00, 0.00)			
ACO	Rastrigin	2	0	#15	8603	0:00:09	100	(0.00, 0.00)			
ACO	Rastrigin	2	1	#1	9524	0:01:40	103.2	(-0.02, -0.02)	102.723	0.421	40.233
ACO	Rastrigin	2	1	#2	9466	0:01:38	103	(-0.03, -0.02)			
ACO	Rastrigin	2	1	#3	9544	0:01:38	102.5	(0.04, -0.03)			
ACO	Rastrigin	2	1	#4	9451	0:01:42	102.3	(-0.01, 0.00)			
ACO	Rastrigin	2	1	#5	9466	0:01:42	102.4	(0.01, -0.08)			
ACO	Rastrigin	2	1	#6	9379	0:01:42	102.8	(0.01, 0.02)			
ACO	Rastrigin	2	1	#7	9360	0:01:38	102.3	(-0.03, 0.04)			
ACO	Rastrigin	2	1	#8	9513	0:01:30	102.6	(0.01, -0.01)			
ACO	Rastrigin	2	1	#9	9478	0:01:47	102.8	(-0.07, -0.01)			
ACO	Rastrigin	2	1	#10	9397	0:01:44	102.8	(0.03, -0.03)			
ACO	Rastrigin	2	1	#11	9522	0:01:38	102.9	(-0.10, -0.06)			
ACO	Rastrigin	2	1	#12	9623	0:01:36	103.6	(-0.01, -0.01)			
ACO	Rastrigin	2	1	#13	9564	0:01:35	102.2	(-0.01, 0.03)			
ACO	Rastrigin	2	1	#14	9360	0:01:42	103.3	(-0.04, 0.06)			
ACO	Rastrigin	2	1	#15	9402	0:01:46	102.2	(-0.02, -0.06)			
ACO	Rastrigin	2	2	#1	10271	0:01:46	105.3	(-0.01, -0.03)	105.712	0.652	40.482
ACO	Rastrigin	2	2	#2	10204	0:01:51	106.2	(0.00, -0.02)			
ACO	Rastrigin	2	2	#3	10259	0:01:35	105.4	(0.04, 0.03)			
ACO	Rastrigin	2	2	#4	10190	0:01:47	106.5	(0.03, -0.01)			
ACO	Rastrigin	2	2	#5	10180	0:01:44	104.9	(-0.08, 0.01)			
ACO	Rastrigin	2	2	#6	10133	0:01:44	106.2	(0.00, 0.00)			
ACO	Rastrigin	2	2	#7	10170	0:01:46	106.6	(0.10, 0.02)			
ACO	Rastrigin	2	2	#8	10253	0:01:44	106.4	(-0.03, -0.02)			
ACO	Rastrigin	2	2	#9	10267	0:01:33	105.2	(0.01, -0.04)			
ACO	Rastrigin	2	2	#10	10263	0:01:33	105.6	(-0.01, 0.01)			
ACO	Rastrigin	2	2	#11	10245	0:01:38	104.9	(-0.01, -0.01)			
ACO	Rastrigin	2	2	#12	10196	0:01:46	104.8	(0.01, -0.09)			
ACO	Rastrigin	2	2	#13	10294	0:01:50	106.5	(0.01, -0.01)			
ACO	Rastrigin	2	2	#14	10151	0:01:41	105.4	(0.07, -0.03)			
ACO	Rastrigin	2	2	#15	10155	0:01:38	105.8	(-0.03, 0.04)			
ACO	Rastrigin	2	3	#1	10536	0:01:41	108.1	(0.04, -0.01)	108.486	1.110	40.706
ACO	Rastrigin	2	3	#2	10494	0:01:38	106.9	(-0.01, -0.03)			
ACO	Rastrigin	2	3	#3	10563	0:01:47	107.2	(0.05, -0.09)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rastrigin	2	3	#4	10646	0:01:47	108.5	(0.08, 0.02)			
ACO	Rastrigin	2	3	#5	10487	0:01:53	110	(0.05, -0.08)			
ACO	Rastrigin	2	3	#6	10459	0:01:46	108.9	(0.03, -0.13)			
ACO	Rastrigin	2	3	#7	10388	0:01:39	107.2	(0.02, 0.01)			
ACO	Rastrigin	2	3	#8	10525	0:01:49	107.9	(-0.06, 0.06)			
ACO	Rastrigin	2	3	#9	10488	0:01:44	109.2	(0.02, 0.08)			
ACO	Rastrigin	2	3	#10	10543	0:01:53	109.5	(0.08, -0.02)			
ACO	Rastrigin	2	3	#11	10574	0:01:48	109.9	(-0.05, 0.02)			
ACO	Rastrigin	2	3	#12	10581	0:01:50	107.4	(0.08, -0.03)			
ACO	Rastrigin	2	3	#13	10514	0:01:40	107.4	(0.00, 0.06)			
ACO	Rastrigin	2	3	#14	10581	0:01:48	109.6	(0.03, 0.00)			
ACO	Rastrigin	2	3	#15	10543	0:01:49	109.6	(-0.02, -0.04)			
ACO	Rosenbrock	2	0	#1	9014	0:00:10	80	(0.00, 0.00)	80.000	0.000	38.062
ACO	Rosenbrock	2	0	#2	9075	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#3	9128	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#4	9014	0:00:11	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#5	9052	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#6	9133	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#7	9092	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#8	8883	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#9	9186	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#10	9241	0:00:11	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#11	8986	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#12	9165	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#13	9020	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#14	9131	0:00:10	80	(0.00, 0.00)			
ACO	Rosenbrock	2	0	#15	9009	0:00:11	80	(0.00, 0.00)			
ACO	Rosenbrock	2	1	#1	12489	0:01:51	82.69	(-1.11, 0.03)	83.370	0.415	38.420
ACO	Rosenbrock	2	1	#2	12707	0:01:55	83.33	(4.66, -0.18)			
ACO	Rosenbrock	2	1	#3	12631	0:01:49	84.15	(-0.20, -2.56)			
ACO	Rosenbrock	2	1	#4	12479	0:01:46	83.37	(-2.13, -3.03)			
ACO	Rosenbrock	2	1	#5	12518	0:02:01	83.97	(2.82, -2.64)			
ACO	Rosenbrock	2	1	#6	12549	0:01:56	83.73	(4.11, -3.77)			
ACO	Rosenbrock	2	1	#7	12506	0:01:54	82.98	(-2.04, -2.46)			
ACO	Rosenbrock	2	1	#8	12611	0:01:56	83.39	(1.74, -3.84)			
ACO	Rosenbrock	2	1	#9	12447	0:01:53	82.9	(0.61, -1.91)			
ACO	Rosenbrock	2	1	#10	12499	0:01:54	83.01	(5.94, -9.02)			
ACO	Rosenbrock	2	1	#11	12543	0:02:02	83.48	(-0.59, -1.85)			
ACO	Rosenbrock	2	1	#12	12549	0:02:01	83.23	(2.95, 3.31)			
ACO	Rosenbrock	2	1	#13	12530	0:01:51	83.32	(2.70, -1.19)			
ACO	Rosenbrock	2	1	#14	12569	0:01:49	83.86	(3.28, 5.11)			
ACO	Rosenbrock	2	1	#15	12535	0:01:56	83.14	(-0.88, 1.79)			
ACO	Rosenbrock	2	2	#1	12456	0:01:57	85.42	(-2.07, 0.95)	86.175	0.701	38.707
ACO	Rosenbrock	2	2	#2	12478	0:01:56	85.6	(0.35, 5.87)			
ACO	Rosenbrock	2	2	#3	12368	0:02:04	87.27	(-2.59, 3.24)			
ACO	Rosenbrock	2	2	#4	12473	0:01:48	85.28	(-2.13, 4.59)			
ACO	Rosenbrock	2	2	#5	12520	0:01:52	86.02	(-3.24, -5.83)			
ACO	Rosenbrock	2	2	#6	12478	0:01:58	85.75	(2.45, -1.13)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rosenbrock	2	2	#7	12492	0:02:01	86.79	(-0.24, 4.45)			
ACO	Rosenbrock	2	2	#8	12374	0:02:03	86.21	(0.91, 0.55)			
ACO	Rosenbrock	2	2	#9	12506	0:01:55	86.21	(-0.08, -0.77)			
ACO	Rosenbrock	2	2	#10	12443	0:02:00	86.4	(-2.01, -4.59)			
ACO	Rosenbrock	2	2	#11	12419	0:02:02	87.68	(2.29, 4.76)			
ACO	Rosenbrock	2	2	#12	12489	0:01:53	85.39	(2.47, 3.29)			
ACO	Rosenbrock	2	2	#13	12300	0:01:47	86.35	(-1.12, 4.10)			
ACO	Rosenbrock	2	2	#14	12354	0:01:48	85.68	(2.38, -1.97)			
ACO	Rosenbrock	2	2	#15	12336	0:01:57	86.59	(-3.12, -0.44)			
ACO	Rosenbrock	2	3	#1	12426	0:02:03	88.41	(1.35, 1.62)	89.686	1.167	39.053
ACO	Rosenbrock	2	3	#2	12347	0:01:58	90.83	(2.27, 0.70)			
ACO	Rosenbrock	2	3	#3	12501	0:01:57	88.52	(0.18, 7.19)			
ACO	Rosenbrock	2	3	#4	12480	0:02:02	90.89	(0.94, -6.93)			
ACO	Rosenbrock	2	3	#5	12382	0:01:56	88.28	(0.41, 0.52)			
ACO	Rosenbrock	2	3	#6	12427	0:02:00	89.49	(1.30, -14.65)			
ACO	Rosenbrock	2	3	#7	12401	0:01:55	90.46	(1.50, -7.77)			
ACO	Rosenbrock	2	3	#8	12316	0:02:06	90.58	(-4.41, -4.27)			
ACO	Rosenbrock	2	3	#9	12358	0:02:00	91.7	(3.57, -9.98)			
ACO	Rosenbrock	2	3	#10	12536	0:02:02	90.91	(0.40, -2.09)			
ACO	Rosenbrock	2	3	#11	12502	0:01:55	88.27	(3.79, -2.58)			
ACO	Rosenbrock	2	3	#12	12486	0:02:00	88.59	(0.93, -3.73)			
ACO	Rosenbrock	2	3	#13	12462	0:01:50	88.64	(-4.71, -5.15)			
ACO	Rosenbrock	2	3	#14	12426	0:01:59	89.82	(-4.97, 1.75)			
ACO	Rosenbrock	2	3	#15	12483	0:01:52	89.9	(0.52, 0.70)			
ACO	Styblinski	2	0	#1	9070	0:00:09	353.3	(-2.90, -2.90)	353.332	0.000	50.964
ACO	Styblinski	2	0	#2	8994	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#3	9476	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#4	8903	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#5	9065	0:00:10	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#6	9031	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#7	8892	0:00:10	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#8	9018	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#9	9027	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#10	8927	0:00:10	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#11	9027	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#12	8911	0:00:10	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#13	9320	0:00:08	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#14	9055	0:00:10	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	0	#15	8842	0:00:09	353.3	(-2.90, -2.90)			
ACO	Styblinski	2	1	#1	11536	0:01:46	356.4	(-3.03, -2.98)	356.457	0.402	51.040
ACO	Styblinski	2	1	#2	11532	0:01:47	356.1	(-2.97, -2.92)			
ACO	Styblinski	2	1	#3	11537	0:01:46	356.8	(-2.95, -2.87)			
ACO	Styblinski	2	1	#4	11712	0:01:43	355.8	(-2.94, -2.96)			
ACO	Styblinski	2	1	#5	11566	0:01:50	356.3	(-2.97, -2.94)			
ACO	Styblinski	2	1	#6	11554	0:01:53	356.7	(-2.87, -2.81)			
ACO	Styblinski	2	1	#7	11581	0:01:48	356.9	(-3.02, -2.84)			
ACO	Styblinski	2	1	#8	11562	0:02:00	356.9	(-3.06, -2.87)			
ACO	Styblinski	2	1	#9	11738	0:01:53	356.4	(-2.87, -2.94)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Styblinski	2	1	#10	11494	0:01:55	356.3	(-2.89, -2.92)			
ACO	Styblinski	2	1	#11	11597	0:01:48	356	(-2.83, -2.84)			
ACO	Styblinski	2	1	#12	11663	0:01:51	356.6	(-2.82, -2.87)			
ACO	Styblinski	2	1	#13	11524	0:01:48	357.3	(-2.87, -2.89)			
ACO	Styblinski	2	1	#14	11486	0:01:54	356.3	(-2.96, -2.82)			
ACO	Styblinski	2	1	#15	11500	0:01:51	356.1	(-2.95, -2.89)			
ACO	Styblinski	2	2	#1	12054	0:01:35	359.8	(-3.06, -2.84)	359.456	0.393	51.113
ACO	Styblinski	2	2	#2	11921	0:01:52	359.9	(-2.83, -3.05)			
ACO	Styblinski	2	2	#3	11953	0:01:48	359.7	(-2.90, -2.83)			
ACO	Styblinski	2	2	#4	11982	0:01:49	359.4	(-2.90, -2.84)			
ACO	Styblinski	2	2	#5	11961	0:01:50	359	(-2.83, -2.80)			
ACO	Styblinski	2	2	#6	12069	0:01:45	359.2	(-2.94, -2.88)			
ACO	Styblinski	2	2	#7	12022	0:01:41	359	(-2.85, -2.91)			
ACO	Styblinski	2	2	#8	12004	0:02:01	358.7	(-2.86, -2.86)			
ACO	Styblinski	2	2	#9	11970	0:01:50	359.4	(-2.85, -2.98)			
ACO	Styblinski	2	2	#10	11972	0:01:48	359.5	(-2.99, -2.77)			
ACO	Styblinski	2	2	#11	12009	0:01:53	359.9	(-2.84, -2.82)			
ACO	Styblinski	2	2	#12	11982	0:01:52	359.2	(-2.82, -2.91)			
ACO	Styblinski	2	2	#13	12101	0:01:52	359.7	(-2.98, -2.98)			
ACO	Styblinski	2	2	#14	12086	0:01:53	360.1	(-2.70, -2.91)			
ACO	Styblinski	2	2	#15	12095	0:01:35	359.3	(-2.92, -2.93)			
ACO	Styblinski	2	3	#1	12079	0:01:58	362.3	(-2.94, -2.88)	362.434	0.560	51.185
ACO	Styblinski	2	3	#2	12398	0:01:55	362.3	(-3.09, -2.80)			
ACO	Styblinski	2	3	#3	12222	0:01:43	361.7	(-2.84, -2.93)			
ACO	Styblinski	2	3	#4	12105	0:01:42	361.6	(-2.71, -2.87)			
ACO	Styblinski	2	3	#5	12199	0:01:41	363	(-3.07, -2.91)			
ACO	Styblinski	2	3	#6	12117	0:01:51	362.6	(-2.67, -2.83)			
ACO	Styblinski	2	3	#7	12193	0:01:56	361.9	(-2.90, -2.86)			
ACO	Styblinski	2	3	#8	12084	0:01:52	362.2	(-2.94, -3.13)			
ACO	Styblinski	2	3	#9	12296	0:01:46	363.5	(-2.96, -2.91)			
ACO	Styblinski	2	3	#10	12179	0:01:45	362.5	(-2.92, -2.79)			
ACO	Styblinski	2	3	#11	12186	0:01:45	362	(-2.91, -2.83)			
ACO	Styblinski	2	3	#12	12165	0:01:50	363	(-2.91, -3.11)			
ACO	Styblinski	2	3	#13	12163	0:01:54	363	(-2.96, -2.80)			
ACO	Styblinski	2	3	#14	12326	0:01:53	362.9	(-2.90, -2.86)			
ACO	Styblinski	2	3	#15	12294	0:01:53	362.1	(-2.90, -3.03)			
ACO	Parabolic	3	0	#1	16849	0:00:14	12	(0.00, 0.00, 0.00)	12.000	0.000	21.584
ACO	Parabolic	3	0	#2	17051	0:00:15	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#3	17094	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#4	17022	0:00:15	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#5	17031	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#6	17083	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#7	17102	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#8	17046	0:00:15	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#9	17086	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#10	16960	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#11	17019	0:00:15	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#12	17298	0:00:14	12	(0.00, 0.00, 0.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Parabolic	3	0	#13	17136	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#14	16912	0:00:15	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	0	#15	17040	0:00:14	12	(0.00, 0.00, 0.00)			
ACO	Parabolic	3	1	#1	24272	0:02:18	15.7	(-2.39, -0.21, -2.15)	15.104	0.387	23.574
ACO	Parabolic	3	1	#2	24457	0:02:12	14.48	(-10.29, -0.52, 3.50)			
ACO	Parabolic	3	1	#3	24410	0:02:07	15.03	(-1.38, 0.47, 0.29)			
ACO	Parabolic	3	1	#4	24222	0:02:16	14.93	(2.85, -1.43, 1.01)			
ACO	Parabolic	3	1	#5	24255	0:02:16	15.69	(-0.11, -2.78, -0.84)			
ACO	Parabolic	3	1	#6	24277	0:02:19	15.17	(-0.17, 2.70, 1.99)			
ACO	Parabolic	3	1	#7	24273	0:02:12	14.73	(-4.98, 2.17, -3.55)			
ACO	Parabolic	3	1	#8	24034	0:02:12	15.55	(-3.36, 2.45, 1.40)			
ACO	Parabolic	3	1	#9	24468	0:02:10	15.08	(-1.01, 3.05, 2.56)			
ACO	Parabolic	3	1	#10	24237	0:02:08	14.93	(1.12, 1.77, 1.82)			
ACO	Parabolic	3	1	#11	24377	0:02:06	14.44	(-1.94, -2.26, -0.30)			
ACO	Parabolic	3	1	#12	24344	0:02:18	14.93	(-1.14, 4.30, -3.15)			
ACO	Parabolic	3	1	#13	24444	0:02:07	15.29	(1.82, 0.94, -0.89)			
ACO	Parabolic	3	1	#14	24451	0:02:11	15.35	(-2.88, 1.69, -1.09)			
ACO	Parabolic	3	1	#15	24466	0:02:17	15.27	(-0.38, 5.08, -2.64)			
ACO	Parabolic	3	2	#1	24441	0:02:20	18.69	(0.34, 2.53, -0.95)	18.347	0.592	25.263
ACO	Parabolic	3	2	#2	24272	0:02:02	18	(0.97, -1.64, 3.08)			
ACO	Parabolic	3	2	#3	24429	0:02:05	17.77	(1.48, -1.07, 2.23)			
ACO	Parabolic	3	2	#4	24468	0:02:20	17.51	(-0.43, 6.25, 1.58)			
ACO	Parabolic	3	2	#5	24564	0:02:17	17.96	(3.94, -4.08, 0.99)			
ACO	Parabolic	3	2	#6	24460	0:02:12	18.16	(6.56, 1.64, -1.78)			
ACO	Parabolic	3	2	#7	24462	0:02:08	18.82	(2.44, 3.13, 0.15)			
ACO	Parabolic	3	2	#8	24287	0:02:12	18.77	(2.51, 0.97, 1.67)			
ACO	Parabolic	3	2	#9	24576	0:02:17	18.57	(2.07, -5.46, 3.65)			
ACO	Parabolic	3	2	#10	24375	0:02:18	19.87	(-0.77, 1.27, 0.65)			
ACO	Parabolic	3	2	#11	24326	0:02:19	18.09	(-3.61, -1.38, 0.11)			
ACO	Parabolic	3	2	#12	24226	0:02:17	18.82	(9.42, -0.66, -1.65)			
ACO	Parabolic	3	2	#13	24461	0:02:16	17.9	(-7.68, -5.04, 8.44)			
ACO	Parabolic	3	2	#14	24310	0:02:14	17.91	(1.85, -1.18, 0.24)			
ACO	Parabolic	3	2	#15	24387	0:02:19	18.38	(8.24, 3.40, -2.43)			
ACO	Parabolic	3	3	#1	24661	0:02:23	20.98	(1.43, -13.18, -1.66)	21.142	0.802	26.486
ACO	Parabolic	3	3	#2	24337	0:02:05	21.57	(0.89, 3.77, 0.07)			
ACO	Parabolic	3	3	#3	24431	0:02:04	20.24	(4.02, -1.73, -3.33)			
ACO	Parabolic	3	3	#4	24511	0:02:10	20.79	(0.63, -3.83, 8.43)			
ACO	Parabolic	3	3	#5	24409	0:02:13	20.89	(5.80, 11.63, 3.23)			
ACO	Parabolic	3	3	#6	24563	0:02:18	21.56	(-0.52, 0.33, -5.41)			
ACO	Parabolic	3	3	#7	24436	0:02:25	21.76	(6.16, 3.81, 0.30)			
ACO	Parabolic	3	3	#8	24582	0:02:08	20.93	(0.15, 0.53, -0.09)			
ACO	Parabolic	3	3	#9	24555	0:02:18	20.58	(8.87, 0.71, -2.88)			
ACO	Parabolic	3	3	#10	24450	0:02:20	21.62	(-1.47, -1.96, -9.09)			
ACO	Parabolic	3	3	#11	24614	0:02:13	20.45	(3.62, -1.00, -6.26)			
ACO	Parabolic	3	3	#12	24355	0:02:06	19.87	(-3.52, -5.12, -1.67)			
ACO	Parabolic	3	3	#13	24566	0:02:11	21.92	(-1.58, 3.43, 3.66)			
ACO	Parabolic	3	3	#14	24393	0:02:16	23.11	(1.13, -3.12, 8.46)			
ACO	Parabolic	3	3	#15	24473	0:02:12	20.88	(3.22, -2.45, -4.16)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Shekel	3	0	#1	17112	0:00:20	18.68	(5.97, -6.97, -2.01)	18.327	1.368	25.176
ACO	Shekel	3	0	#2	17440	0:00:20	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#3	17166	0:00:21	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#4	17579	0:00:20	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#5	17158	0:00:20	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#6	17284	0:00:21	13.38	(3.95, 5.91, -2.03)			
ACO	Shekel	3	0	#7	16946	0:00:21	18.68	(5.97, -6.98, -2.00)			
ACO	Shekel	3	0	#8	17175	0:00:20	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#9	17129	0:00:21	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#10	17208	0:00:21	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#11	17219	0:00:21	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#12	17161	0:00:20	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#13	16965	0:00:21	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#14	17746	0:00:19	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	0	#15	17275	0:00:21	18.68	(5.97, -6.97, -2.01)			
ACO	Shekel	3	1	#1	23053	0:02:19	21.17	(5.62, -6.63, -1.91)	21.178	1.456	26.452
ACO	Shekel	3	1	#2	22849	0:02:12	22.63	(5.64, -7.04, -2.00)			
ACO	Shekel	3	1	#3	22942	0:02:15	21.62	(6.07, -7.06, -1.77)			
ACO	Shekel	3	1	#4	22818	0:02:12	21.33	(6.00, -7.27, -1.79)			
ACO	Shekel	3	1	#5	23040	0:02:14	21.04	(6.00, -6.82, -2.27)			
ACO	Shekel	3	1	#6	22825	0:02:19	21.56	(5.76, -7.10, -1.91)			
ACO	Shekel	3	1	#7	23052	0:02:19	22.05	(6.10, -7.25, -2.06)			
ACO	Shekel	3	1	#8	23475	0:02:20	19.87	(5.63, -6.60, -2.00)			
ACO	Shekel	3	1	#9	23252	0:02:13	21.28	(5.99, -6.85, -1.81)			
ACO	Shekel	3	1	#10	23061	0:02:19	22.54	(6.38, -7.08, -2.22)			
ACO	Shekel	3	1	#11	23073	0:02:20	21.59	(5.96, -7.09, -2.04)			
ACO	Shekel	3	1	#12	23202	0:02:23	21.55	(5.80, -6.82, -2.20)			
ACO	Shekel	3	1	#13	22906	0:02:16	21.94	(5.99, -6.58, -1.88)			
ACO	Shekel	3	1	#14	23070	0:02:14	16.49	(3.83, 5.97, -2.30)			
ACO	Shekel	3	1	#15	23128	0:02:05	21.02	(5.77, -6.98, -2.04)			
ACO	Shekel	3	2	#1	23669	0:02:19	21.93	(6.08, -6.94, -1.47)	24.232	1.509	27.638
ACO	Shekel	3	2	#2	23310	0:02:14	26.07	(6.06, -7.06, -1.98)			
ACO	Shekel	3	2	#3	23223	0:02:16	25.43	(6.06, -6.70, -2.07)			
ACO	Shekel	3	2	#4	23874	0:02:17	20.01	(6.24, -6.95, -2.92)			
ACO	Shekel	3	2	#5	23510	0:02:03	25.4	(5.46, -6.67, -2.18)			
ACO	Shekel	3	2	#6	23633	0:02:10	24.48	(6.10, -7.10, -1.92)			
ACO	Shekel	3	2	#7	23549	0:02:14	24.63	(6.03, -6.58, -2.09)			
ACO	Shekel	3	2	#8	23279	0:02:13	23.84	(5.82, -6.82, -1.87)			
ACO	Shekel	3	2	#9	23603	0:02:25	23.88	(5.85, -6.83, -2.02)			
ACO	Shekel	3	2	#10	23264	0:02:06	23.96	(5.85, -7.00, -2.30)			
ACO	Shekel	3	2	#11	23576	0:02:07	24.86	(5.96, -6.97, -1.89)			
ACO	Shekel	3	2	#12	23627	0:02:22	25.03	(5.94, -7.63, -1.93)			
ACO	Shekel	3	2	#13	23372	0:02:11	25.2	(6.13, -6.49, -1.89)			
ACO	Shekel	3	2	#14	23434	0:02:14	24.48	(6.43, -6.89, -2.06)			
ACO	Shekel	3	2	#15	23437	0:02:08	24.3	(5.91, -6.80, -1.67)			
ACO	Shekel	3	3	#1	23920	0:02:17	25.62	(5.35, -6.62, -1.91)	26.683	0.803	28.518
ACO	Shekel	3	3	#2	23755	0:02:17	25.47	(5.46, -6.51, -1.73)			
ACO	Shekel	3	3	#3	23919	0:02:17	26.06	(6.00, -6.98, -1.98)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Shekel	3	3	#4	23900	0:02:09	27.13	(5.67, -6.62, -1.93)			
ACO	Shekel	3	3	#5	23867	0:02:13	25.5	(6.07, -6.78, -1.73)			
ACO	Shekel	3	3	#6	23883	0:02:12	26.39	(6.01, -7.00, -2.41)			
ACO	Shekel	3	3	#7	23905	0:02:13	27.14	(5.70, -7.32, -1.47)			
ACO	Shekel	3	3	#8	23480	0:02:21	27.89	(6.20, -7.73, -2.14)			
ACO	Shekel	3	3	#9	23635	0:02:21	27.21	(6.06, -7.76, -1.97)			
ACO	Shekel	3	3	#10	23508	0:02:14	28.2	(5.92, -7.77, -1.43)			
ACO	Shekel	3	3	#11	23901	0:02:08	26.51	(6.00, -6.88, -1.74)			
ACO	Shekel	3	3	#12	23913	0:02:22	26.76	(6.00, -6.88, -1.94)			
ACO	Shekel	3	3	#13	24092	0:02:14	26.73	(6.09, -7.02, -2.48)			
ACO	Shekel	3	3	#14	24002	0:02:27	26.75	(6.21, -7.14, -1.94)			
ACO	Shekel	3	3	#15	23643	0:02:14	26.91	(5.43, -7.11, -2.19)			
ACO	Rastrigin	3	0	#1	16829	0:00:15	120	(0.00, 0.00, 0.00)	118.414	2.007	41.465
ACO	Rastrigin	3	0	#2	16492	0:00:15	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#3	16670	0:00:14	116	(0.00, 1.98, 0.00)			
ACO	Rastrigin	3	0	#4	16528	0:00:15	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#5	16667	0:00:14	116	(1.98, 0.00, 0.00)			
ACO	Rastrigin	3	0	#6	16800	0:00:14	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#7	16506	0:00:15	116	(0.00, 0.00, -1.98)			
ACO	Rastrigin	3	0	#8	16898	0:00:15	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#9	16725	0:00:15	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#10	16505	0:00:14	116	(-1.98, 0.00, 0.00)			
ACO	Rastrigin	3	0	#11	16612	0:00:15	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#12	16502	0:00:15	120	(0.00, -0.01, 0.00)			
ACO	Rastrigin	3	0	#13	16742	0:00:14	120	(0.00, 0.00, 0.00)			
ACO	Rastrigin	3	0	#14	16684	0:00:15	116	(0.00, 1.98, 0.00)			
ACO	Rastrigin	3	0	#15	17121	0:00:14	116	(0.00, 0.00, -1.98)			
ACO	Rastrigin	3	1	#1	18393	0:02:02	122.7	(-0.02, 0.03, 0.04)	120.797	1.894	41.639
ACO	Rastrigin	3	1	#2	18540	0:01:52	122.1	(-0.02, 0.03, -0.04)			
ACO	Rastrigin	3	1	#3	18496	0:01:50	120.4	(-0.09, 0.00, 0.09)			
ACO	Rastrigin	3	1	#4	18462	0:02:07	122.1	(0.00, -0.07, -0.03)			
ACO	Rastrigin	3	1	#5	18515	0:01:51	123	(0.02, 0.01, 0.00)			
ACO	Rastrigin	3	1	#6	18485	0:01:55	122.5	(-0.01, -0.01, -0.01)			
ACO	Rastrigin	3	1	#7	18373	0:01:55	123	(-0.01, 0.02, -0.04)			
ACO	Rastrigin	3	1	#8	18212	0:01:58	118.4	(0.01, 0.07, -1.97)			
ACO	Rastrigin	3	1	#9	18575	0:01:57	118.6	(-1.98, -0.01, -0.01)			
ACO	Rastrigin	3	1	#10	18685	0:01:52	118.9	(-0.01, 0.01, -2.03)			
ACO	Rastrigin	3	1	#11	18459	0:01:54	122.2	(-0.02, -0.03, 0.01)			
ACO	Rastrigin	3	1	#12	18564	0:02:09	119.2	(-0.01, 2.01, -0.01)			
ACO	Rastrigin	3	1	#13	18492	0:01:55	121.8	(-0.02, -0.05, -0.02)			
ACO	Rastrigin	3	1	#14	18696	0:01:47	118.3	(-0.02, -0.01, 2.02)			
ACO	Rastrigin	3	1	#15	18247	0:02:03	118.6	(2.00, 0.02, 0.00)			
ACO	Rastrigin	3	2	#1	19783	0:01:53	124	(-0.04, -0.05, 0.00)	124.152	2.026	41.876
ACO	Rastrigin	3	2	#2	19881	0:02:02	126.5	(-0.02, -0.06, -0.07)			
ACO	Rastrigin	3	2	#3	19778	0:01:59	122.7	(-1.93, 0.03, 0.05)			
ACO	Rastrigin	3	2	#4	20050	0:01:55	124.5	(0.04, -0.08, -0.08)			
ACO	Rastrigin	3	2	#5	19847	0:01:54	121.3	(0.03, -1.96, 0.06)			
ACO	Rastrigin	3	2	#6	19848	0:02:00	119.8	(0.02, -0.07, -1.94)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rastrigin	3	2	#7	19736	0:01:57	125.6	(-0.02, 0.03, 0.05)			
ACO	Rastrigin	3	2	#8	19759	0:02:04	124.2	(0.00, 0.05, 0.07)			
ACO	Rastrigin	3	2	#9	19963	0:02:00	124.1	(0.01, 0.13, -0.05)			
ACO	Rastrigin	3	2	#10	19846	0:01:52	121.8	(2.03, 0.00, 0.06)			
ACO	Rastrigin	3	2	#11	19669	0:02:01	126.8	(0.01, -0.05, 0.10)			
ACO	Rastrigin	3	2	#12	19851	0:02:04	125.1	(0.02, -0.04, -0.08)			
ACO	Rastrigin	3	2	#13	19738	0:02:01	125	(0.05, 1.97, 0.00)			
ACO	Rastrigin	3	2	#14	19940	0:02:22	124.3	(0.00, 0.03, -0.07)			
ACO	Rastrigin	3	2	#15	19644	0:01:57	126.6	(0.02, -0.03, 0.00)			
ACO	Rastrigin	3	3	#1	20483	0:01:59	127.8	(-0.02, 0.05, 0.07)	126.740	1.433	42.057
ACO	Rastrigin	3	3	#2	20645	0:01:52	126.5	(0.00, 0.00, 0.03)			
ACO	Rastrigin	3	3	#3	20457	0:02:07	128.7	(-0.07, 0.04, -0.05)			
ACO	Rastrigin	3	3	#4	20383	0:02:00	125.8	(-0.09, 0.04, 0.00)			
ACO	Rastrigin	3	3	#5	20501	0:02:09	127	(-0.01, 0.00, 0.04)			
ACO	Rastrigin	3	3	#6	20617	0:01:59	127.4	(0.00, -0.05, 0.00)			
ACO	Rastrigin	3	3	#7	20647	0:02:03	126.6	(-0.07, -0.02, 0.01)			
ACO	Rastrigin	3	3	#8	20595	0:02:01	123	(-0.03, -1.99, -0.08)			
ACO	Rastrigin	3	3	#9	20514	0:01:57	126.8	(-0.09, 0.01, 0.06)			
ACO	Rastrigin	3	3	#10	20624	0:01:55	126.3	(-0.02, -0.05, -0.02)			
ACO	Rastrigin	3	3	#11	20661	0:01:59	127.3	(-0.09, 0.05, 0.00)			
ACO	Rastrigin	3	3	#12	20576	0:01:58	125.2	(-0.10, -0.05, 0.01)			
ACO	Rastrigin	3	3	#13	20704	0:02:11	128.9	(-0.09, 0.01, -0.05)			
ACO	Rastrigin	3	3	#14	20550	0:02:09	126.6	(-0.01, 0.01, -1.97)			
ACO	Rastrigin	3	3	#15	20769	0:01:57	127.3	(-0.01, 0.02, 0.06)			
ACO	Rosenbrock	3	0	#1	17322	0:00:16	80	(0.00, 0.00, 0.00)	80.000	0.000	38.062
ACO	Rosenbrock	3	0	#2	17076	0:00:17	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#3	16952	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#4	17148	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#5	17231	0:00:17	80	(0.00, -0.01, 0.00)			
ACO	Rosenbrock	3	0	#6	17160	0:00:16	80	(-0.01, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#7	16860	0:00:17	80	(0.00, 0.01, 0.00)			
ACO	Rosenbrock	3	0	#8	17273	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#9	17129	0:00:16	80	(-0.01, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#10	17118	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#11	17037	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#12	17194	0:00:17	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#13	17128	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#14	17164	0:00:16	80	(0.00, 0.00, 0.00)			
ACO	Rosenbrock	3	0	#15	17190	0:00:16	80	(-0.01, 0.00, 0.00)			
ACO	Rosenbrock	3	1	#1	24506	0:02:14	83.58	(-1.15, 2.33, -0.41)	83.052	0.406	38.387
ACO	Rosenbrock	3	1	#2	24315	0:02:10	82.73	(-2.66, -2.02, -1.75)			
ACO	Rosenbrock	3	1	#3	24376	0:02:20	83.12	(1.56, 2.10, 2.13)			
ACO	Rosenbrock	3	1	#4	24469	0:02:19	84.11	(3.85, -4.23, -0.62)			
ACO	Rosenbrock	3	1	#5	24489	0:02:27	83.47	(-1.40, -0.82, 1.30)			
ACO	Rosenbrock	3	1	#6	24485	0:02:30	82.86	(-3.32, 0.35, 0.12)			
ACO	Rosenbrock	3	1	#7	24493	0:02:26	82.54	(-2.32, -5.08, 0.17)			
ACO	Rosenbrock	3	1	#8	24637	0:02:09	82.73	(-0.19, -0.99, -1.17)			
ACO	Rosenbrock	3	1	#9	24544	0:02:16	82.87	(4.18, -1.03, -1.79)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rosenbrock	3	1	#10	24511	0:02:25	82.75	(0.33, 5.55, 0.59)			
ACO	Rosenbrock	3	1	#11	24513	0:02:14	83.04	(-4.56, -9.54, -1.26)			
ACO	Rosenbrock	3	1	#12	24526	0:02:22	83.17	(-0.66, 4.93, 1.08)			
ACO	Rosenbrock	3	1	#13	24520	0:02:19	82.78	(-0.28, -0.87, -2.75)			
ACO	Rosenbrock	3	1	#14	24496	0:02:21	83	(0.89, -4.95, 0.69)			
ACO	Rosenbrock	3	1	#15	24613	0:02:26	83.06	(-3.10, -3.83, -0.30)			
ACO	Rosenbrock	3	2	#1	24409	0:02:28	85.58	(2.82, 0.05, 0.85)	86.397	0.722	38.729
ACO	Rosenbrock	3	2	#2	24512	0:02:07	85.46	(-1.17, -2.52, -0.11)			
ACO	Rosenbrock	3	2	#3	24401	0:02:18	86.03	(-0.02, 4.12, 0.68)			
ACO	Rosenbrock	3	2	#4	24349	0:02:21	85.74	(4.87, -0.92, -2.16)			
ACO	Rosenbrock	3	2	#5	24365	0:02:19	87.32	(-1.64, -6.93, 0.17)			
ACO	Rosenbrock	3	2	#6	24556	0:02:15	87.38	(-4.28, -1.76, -0.75)			
ACO	Rosenbrock	3	2	#7	24317	0:02:19	87.25	(-0.18, -4.36, 1.22)			
ACO	Rosenbrock	3	2	#8	24427	0:02:05	85.71	(-0.37, 3.45, 1.10)			
ACO	Rosenbrock	3	2	#9	24532	0:02:18	86.32	(-2.93, 0.91, -1.52)			
ACO	Rosenbrock	3	2	#10	24356	0:02:21	86.99	(-0.33, -1.12, -0.64)			
ACO	Rosenbrock	3	2	#11	24355	0:02:14	86.58	(-4.55, -3.06, -2.73)			
ACO	Rosenbrock	3	2	#12	24436	0:02:18	86.87	(1.62, -4.07, -0.31)			
ACO	Rosenbrock	3	2	#13	24390	0:02:17	85.36	(1.45, 5.84, -2.46)			
ACO	Rosenbrock	3	2	#14	24450	0:02:22	86.29	(1.49, 6.30, 1.02)			
ACO	Rosenbrock	3	2	#15	24498	0:02:19	87.07	(-4.17, -11.29, 1.70)			
ACO	Rosenbrock	3	3	#1	24538	0:02:24	88.88	(-3.24, -1.08, 1.42)	89.459	0.858	39.031
ACO	Rosenbrock	3	3	#2	24507	0:02:20	88.68	(0.62, 4.33, 1.54)			
ACO	Rosenbrock	3	3	#3	24462	0:02:28	90.69	(-4.55, -5.62, -1.55)			
ACO	Rosenbrock	3	3	#4	24499	0:02:20	89.13	(-6.39, -4.20, -3.08)			
ACO	Rosenbrock	3	3	#5	24439	0:02:03	88.06	(-2.78, -7.58, -0.16)			
ACO	Rosenbrock	3	3	#6	24437	0:02:15	89.61	(1.84, 0.28, 1.48)			
ACO	Rosenbrock	3	3	#7	24507	0:02:13	90	(0.65, 4.09, 0.69)			
ACO	Rosenbrock	3	3	#8	24509	0:02:18	90.23	(-0.55, 5.34, 1.09)			
ACO	Rosenbrock	3	3	#9	24528	0:02:09	88.95	(5.87, -11.88, -3.53)			
ACO	Rosenbrock	3	3	#10	24368	0:02:16	90.5	(-0.95, 4.02, -1.55)			
ACO	Rosenbrock	3	3	#11	24476	0:02:21	90.37	(-1.71, -4.71, -0.68)			
ACO	Rosenbrock	3	3	#12	24466	0:02:11	89.78	(-1.94, 1.11, -2.30)			
ACO	Rosenbrock	3	3	#13	24440	0:02:17	87.92	(4.95, 1.51, -2.61)			
ACO	Rosenbrock	3	3	#14	24551	0:02:14	89.86	(-1.34, -2.92, -0.07)			
ACO	Rosenbrock	3	3	#15	24604	0:02:07	89.24	(1.04, -0.75, -0.57)			
ACO	Styblinski	3	0	#1	17233	0:00:17	378.4	(-2.90, 2.74, -2.90)	391.556	3.650	51.855
ACO	Styblinski	3	0	#2	17465	0:00:15	392.5	(-2.90, -2.91, -2.90)			
ACO	Styblinski	3	0	#3	17011	0:00:18	392.5	(-2.90, -2.91, -2.91)			
ACO	Styblinski	3	0	#4	16866	0:00:17	392.5	(-2.91, -2.91, -2.90)			
ACO	Styblinski	3	0	#5	17258	0:00:17	392.5	(-2.91, -2.91, -2.90)			
ACO	Styblinski	3	0	#6	17215	0:00:16	392.5	(-2.90, -2.90, -2.91)			
ACO	Styblinski	3	0	#7	17288	0:00:16	392.5	(-2.90, -2.90, -2.91)			
ACO	Styblinski	3	0	#8	17175	0:00:17	392.5	(-2.91, -2.90, -2.91)			
ACO	Styblinski	3	0	#9	17370	0:00:16	392.5	(-2.90, -2.91, -2.90)			
ACO	Styblinski	3	0	#10	17138	0:00:17	392.5	(-2.90, -2.91, -2.91)			
ACO	Styblinski	3	0	#11	16988	0:00:17	392.5	(-2.90, -2.91, -2.90)			
ACO	Styblinski	3	0	#12	17205	0:00:17	392.5	(-2.91, -2.90, -2.91)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Styblinski	3	0	#13	17054	0:00:16	392.5	(-2.91, -2.90, -2.91)			
ACO	Styblinski	3	0	#14	17063	0:00:18	392.5	(-2.91, -2.91, -2.90)			
ACO	Styblinski	3	0	#15	17133	0:00:17	392.5	(-2.91, -2.91, -2.90)			
ACO	Styblinski	3	1	#1	22111	0:02:26	395.7	(-2.91, -2.83, -2.80)	393.482	4.956	51.897
ACO	Styblinski	3	1	#2	22010	0:02:23	394.9	(-2.95, -2.95, -2.87)			
ACO	Styblinski	3	1	#3	22150	0:02:37	381.5	(-2.89, -2.92, 2.79)			
ACO	Styblinski	3	1	#4	22048	0:02:30	395.7	(-2.90, -2.95, -2.89)			
ACO	Styblinski	3	1	#5	22153	0:02:26	381.1	(2.78, -2.88, -3.00)			
ACO	Styblinski	3	1	#6	22141	0:02:33	395.2	(-2.86, -2.81, -2.96)			
ACO	Styblinski	3	1	#7	22061	0:02:32	395.4	(-2.96, -2.85, -2.79)			
ACO	Styblinski	3	1	#8	22193	0:02:21	395	(-2.71, -2.90, -2.90)			
ACO	Styblinski	3	1	#9	22039	0:02:33	395.4	(-2.84, -2.83, -2.95)			
ACO	Styblinski	3	1	#10	22138	0:02:25	395.9	(-2.84, -2.96, -2.86)			
ACO	Styblinski	3	1	#11	22015	0:02:24	396	(-2.88, -2.81, -2.83)			
ACO	Styblinski	3	1	#12	22224	0:02:24	395.4	(-2.94, -2.93, -2.83)			
ACO	Styblinski	3	1	#13	21975	0:02:22	394.6	(-2.91, -2.87, -2.89)			
ACO	Styblinski	3	1	#14	22162	0:02:38	395.5	(-2.92, -2.85, -2.93)			
ACO	Styblinski	3	1	#15	22070	0:02:27	394.8	(-2.91, -2.80, -2.90)			
ACO	Styblinski	3	2	#1	22617	0:02:30	399.1	(-2.96, -2.87, -2.91)	398.326	1.014	52.005
ACO	Styblinski	3	2	#2	22709	0:02:29	399	(-3.02, -2.85, -2.97)			
ACO	Styblinski	3	2	#3	22553	0:02:38	399.8	(-2.86, -2.90, -2.70)			
ACO	Styblinski	3	2	#4	22735	0:02:24	397.7	(-3.02, -2.86, -2.68)			
ACO	Styblinski	3	2	#5	22697	0:02:34	398.8	(-2.86, -2.83, -3.05)			
ACO	Styblinski	3	2	#6	22620	0:02:26	397.5	(-2.88, -3.03, -2.89)			
ACO	Styblinski	3	2	#7	22764	0:02:29	398.5	(-3.02, -2.84, -2.98)			
ACO	Styblinski	3	2	#8	22682	0:02:28	399.6	(-3.07, -2.94, -2.84)			
ACO	Styblinski	3	2	#9	22638	0:02:21	398.4	(-2.75, -2.95, -2.95)			
ACO	Styblinski	3	2	#10	22746	0:02:11	396.5	(-3.00, -2.93, -3.07)			
ACO	Styblinski	3	2	#11	22704	0:02:34	397.6	(-2.92, -3.02, -2.95)			
ACO	Styblinski	3	2	#12	22700	0:02:27	399.7	(-2.95, -2.86, -2.68)			
ACO	Styblinski	3	2	#13	22646	0:02:27	397.6	(-2.71, -2.86, -3.12)			
ACO	Styblinski	3	2	#14	22661	0:02:38	397.6	(-2.77, -2.67, -3.03)			
ACO	Styblinski	3	2	#15	22562	0:02:41	397.3	(-2.75, -2.95, -2.85)			
ACO	Styblinski	3	3	#1	23198	0:02:26	398.9	(-2.99, -2.89, -2.70)	400.482	1.386	52.052
ACO	Styblinski	3	3	#2	22877	0:02:29	399.7	(-3.01, -2.94, -2.95)			
ACO	Styblinski	3	3	#3	23024	0:02:24	400.1	(-3.05, -2.85, -2.88)			
ACO	Styblinski	3	3	#4	22901	0:02:28	402.2	(-2.76, -2.88, -3.01)			
ACO	Styblinski	3	3	#5	22852	0:02:20	401.4	(-2.91, -2.87, -3.00)			
ACO	Styblinski	3	3	#6	22764	0:02:21	400.4	(-3.02, -2.92, -2.83)			
ACO	Styblinski	3	3	#7	22797	0:02:38	401.8	(-2.67, -2.69, -3.02)			
ACO	Styblinski	3	3	#8	22893	0:02:35	400.7	(-2.58, -2.88, -3.02)			
ACO	Styblinski	3	3	#9	23001	0:02:36	403.1	(-3.08, -3.07, -2.86)			
ACO	Styblinski	3	3	#10	22923	0:02:26	400	(-2.80, -2.65, -2.73)			
ACO	Styblinski	3	3	#11	22897	0:02:40	400.2	(-2.99, -2.80, -2.93)			
ACO	Styblinski	3	3	#12	22871	0:02:25	399.6	(-3.02, -2.92, -2.76)			
ACO	Styblinski	3	3	#13	22959	0:02:41	400.8	(-2.82, -2.78, -3.05)			
ACO	Styblinski	3	3	#14	22902	0:02:40	401.2	(-2.81, -2.84, -2.78)			
ACO	Styblinski	3	3	#15	22912	0:02:33	397.4	(-2.48, -2.86, -2.80)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Parabolic	4	0	#1	34840	0:00:36	12	(0.00, 0.00, 0.00, 0.00)	12.000	0.000	21.584
ACO	Parabolic	4	0	#2	35070	0:00:36	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#3	34797	0:00:52	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#4	34579	0:00:58	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#5	35140	0:00:58	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#6	34856	0:00:57	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#7	35146	0:00:57	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#8	34678	0:00:58	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#9	34478	0:00:56	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#10	34913	0:00:55	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#11	34572	0:00:57	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#12	34726	0:00:57	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#13	34625	0:00:57	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#14	34437	0:00:59	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	0	#15	34670	0:00:58	12	(0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	4	1	#1	48586	0:03:46	15.18	(-1.51, 0.09, -1.62, 1.75)	15.124	0.436	23.585
ACO	Parabolic	4	1	#2	48707	0:03:56	16.25	(0.82, -0.37, 1.35, -2.96)			
ACO	Parabolic	4	1	#3	48485	0:03:44	14.69	(0.34, 0.21, 1.06, -3.71)			
ACO	Parabolic	4	1	#4	48305	0:03:48	15.49	(1.36, 0.96, 3.02, 0.83)			
ACO	Parabolic	4	1	#5	48685	0:03:52	15.31	(-2.76, 1.14, -1.50, 3.06)			
ACO	Parabolic	4	1	#6	48759	0:03:46	14.91	(-0.77, 2.21, -3.34, -1.00)			
ACO	Parabolic	4	1	#7	48632	0:03:24	14.68	(-2.15, 2.05, 0.78, -0.59)			
ACO	Parabolic	4	1	#8	48534	0:03:41	15.16	(-2.98, -4.11, -1.39, -0.74)			
ACO	Parabolic	4	1	#9	48399	0:03:51	15.23	(-0.85, 0.67, -1.39, 0.48)			
ACO	Parabolic	4	1	#10	48559	0:03:45	15.12	(5.50, -3.18, -3.13, -1.38)			
ACO	Parabolic	4	1	#11	48868	0:03:58	15.19	(1.37, 2.13, 3.57, -0.69)			
ACO	Parabolic	4	1	#12	48647	0:03:59	14.7	(-0.98, -6.36, 1.83, -1.69)			
ACO	Parabolic	4	1	#13	48686	0:03:42	14.74	(3.65, 0.35, -3.58, 5.45)			
ACO	Parabolic	4	1	#14	48752	0:03:50	14.63	(-0.55, -2.22, 1.25, -3.51)			
ACO	Parabolic	4	1	#15	48564	0:03:52	15.57	(1.19, -0.20, 0.90, -1.93)			
ACO	Parabolic	4	2	#1	48883	0:03:31	19.96	(-1.36, 5.27, 0.16, 0.73)	18.363	0.586	25.269
ACO	Parabolic	4	2	#2	48693	0:03:48	18.06	(-4.78, 0.75, 0.55, 4.99)			
ACO	Parabolic	4	2	#3	48831	0:03:37	19	(0.04, 2.23, -5.08, 3.81)			
ACO	Parabolic	4	2	#4	48752	0:03:28	18.37	(-2.02, -0.12, -8.92, -2.45)			
ACO	Parabolic	4	2	#5	48674	0:03:39	18.15	(2.59, 2.63, -1.63, 0.76)			
ACO	Parabolic	4	2	#6	48725	0:03:33	18.24	(1.15, 2.30, 3.23, -3.44)			
ACO	Parabolic	4	2	#7	48805	0:03:31	17.77	(-2.33, -0.30, 3.23, -8.38)			
ACO	Parabolic	4	2	#8	48837	0:03:31	18.65	(2.97, -0.20, -0.56, 3.06)			
ACO	Parabolic	4	2	#9	48674	0:03:26	17.75	(0.83, 2.70, -2.02, -0.20)			
ACO	Parabolic	4	2	#10	48601	0:03:31	18.5	(-0.29, -2.22, -4.02, -0.67)			
ACO	Parabolic	4	2	#11	48688	0:03:34	18.42	(5.69, 5.16, 5.65, -2.64)			
ACO	Parabolic	4	2	#12	48780	0:03:41	18.42	(6.67, -2.01, -1.05, -3.23)			
ACO	Parabolic	4	2	#13	48800	0:03:39	18.64	(-5.49, 2.09, -3.06, -0.62)			
ACO	Parabolic	4	2	#14	48944	0:03:36	17.9	(0.00, -0.40, -3.78, 8.10)			
ACO	Parabolic	4	2	#15	48806	0:03:30	17.61	(-3.06, -1.68, 1.67, -4.74)			
ACO	Parabolic	4	3	#1	48864	0:03:33	19.83	(2.08, 0.12, -3.86, -2.59)	20.826	0.775	26.356
ACO	Parabolic	4	3	#2	49008	0:03:40	21.34	(2.42, -0.82, 4.42, 1.89)			
ACO	Parabolic	4	3	#3	48824	0:03:24	20.59	(5.82, -7.40, 4.86, 4.46)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Parabolic	4	3	#4	49085	0:03:44	22	(2.92, -0.04, -5.66, 5.66)			
ACO	Parabolic	4	3	#5	48835	0:03:33	19.93	(-3.35, -2.20, -0.09, -8.71)			
ACO	Parabolic	4	3	#6	48993	0:03:39	20.97	(-3.38, 7.20, -3.93, -1.97)			
ACO	Parabolic	4	3	#7	49173	0:04:04	22.08	(1.34, -4.45, 0.34, 1.52)			
ACO	Parabolic	4	3	#8	49010	0:03:58	20.03	(-2.66, -2.92, -1.64, 1.50)			
ACO	Parabolic	4	3	#9	49146	0:03:34	19.91	(-4.74, -6.66, 1.26, 2.46)			
ACO	Parabolic	4	3	#10	48647	0:03:47	20.7	(3.08, 11.28, 0.76, 1.26)			
ACO	Parabolic	4	3	#11	48858	0:03:55	21.1	(5.17, 1.03, 2.76, 4.53)			
ACO	Parabolic	4	3	#12	48850	0:03:40	19.88	(5.74, -0.41, 2.41, 4.79)			
ACO	Parabolic	4	3	#13	48758	0:03:40	21.52	(4.47, -5.13, 0.46, -1.60)			
ACO	Parabolic	4	3	#14	48995	0:03:54	21.35	(-3.73, -3.30, 2.29, 1.06)			
ACO	Parabolic	4	3	#15	48984	0:03:47	21.14	(4.13, 2.28, 4.80, 1.88)			
ACO	Shekel	4	0	#1	34941	0:01:09	18.24	(5.98, -6.98, -2.01, 3.98)	17.539	1.835	24.709
ACO	Shekel	4	0	#2	34878	0:01:10	13.02	(3.96, 5.94, -2.01, 1.97)			
ACO	Shekel	4	0	#3	35472	0:01:08	18.24	(5.98, -6.98, -2.00, 3.99)			
ACO	Shekel	4	0	#4	35260	0:01:09	18.24	(5.99, -6.98, -2.01, 3.98)			
ACO	Shekel	4	0	#5	36309	0:01:04	18.24	(5.98, -6.98, -2.00, 3.98)			
ACO	Shekel	4	0	#6	34899	0:01:08	18.24	(5.98, -6.98, -2.00, 3.99)			
ACO	Shekel	4	0	#7	36034	0:01:07	18.24	(5.98, -6.98, -2.00, 3.99)			
ACO	Shekel	4	0	#8	35060	0:01:09	18.24	(5.98, -6.98, -2.00, 3.98)			
ACO	Shekel	4	0	#9	35496	0:01:07	18.24	(5.98, -6.98, -2.00, 3.98)			
ACO	Shekel	4	0	#10	34464	0:01:09	18.24	(5.98, -6.98, -2.00, 3.99)			
ACO	Shekel	4	0	#11	34890	0:01:10	18.23	(5.99, -6.98, -2.01, 3.98)			
ACO	Shekel	4	0	#12	34922	0:01:11	18.24	(5.98, -6.98, -2.01, 3.98)			
ACO	Shekel	4	0	#13	34899	0:01:08	13.02	(3.96, 5.94, -2.01, 1.98)			
ACO	Shekel	4	0	#14	34958	0:01:08	18.24	(5.98, -6.98, -2.00, 3.99)			
ACO	Shekel	4	0	#15	35125	0:01:07	18.24	(5.98, -6.97, -2.00, 3.98)			
ACO	Shekel	4	1	#1	46257	0:03:56	20.09	(5.78, -7.08, -2.23, 3.85)	20.420	1.096	26.164
ACO	Shekel	4	1	#2	46287	0:03:47	20.84	(6.12, -6.73, -2.04, 4.04)			
ACO	Shekel	4	1	#3	46368	0:03:40	20.57	(5.98, -6.90, -2.20, 3.97)			
ACO	Shekel	4	1	#4	45826	0:03:39	20.6	(6.09, -7.21, -2.05, 3.99)			
ACO	Shekel	4	1	#5	45665	0:03:42	21.18	(6.14, -7.12, -2.23, 4.02)			
ACO	Shekel	4	1	#6	45883	0:03:42	20.17	(6.30, -6.61, -2.41, 3.93)			
ACO	Shekel	4	1	#7	46509	0:03:50	20.27	(6.09, -7.19, -1.75, 4.20)			
ACO	Shekel	4	1	#8	45495	0:03:46	21.02	(5.83, -6.81, -2.05, 3.80)			
ACO	Shekel	4	1	#9	46313	0:03:51	16.65	(4.25, 5.88, -2.03, 1.81)			
ACO	Shekel	4	1	#10	46368	0:03:48	20.64	(5.96, -7.07, -1.95, 3.46)			
ACO	Shekel	4	1	#11	46047	0:03:37	20.85	(6.07, -6.67, -1.92, 3.88)			
ACO	Shekel	4	1	#12	45890	0:03:49	20.65	(6.07, -6.93, -1.96, 3.95)			
ACO	Shekel	4	1	#13	46062	0:03:46	20.66	(6.20, -6.62, -2.00, 3.89)			
ACO	Shekel	4	1	#14	45691	0:03:39	21.29	(6.00, -7.11, -2.30, 4.15)			
ACO	Shekel	4	1	#15	45156	0:03:53	20.82	(5.73, -7.19, -2.06, 4.23)			
ACO	Shekel	4	2	#1	47563	0:03:51	17.75	(3.60, 5.82, -2.37, 2.43)	22.044	2.322	26.732
ACO	Shekel	4	2	#2	47238	0:03:46	23.47	(6.21, -7.13, -1.85, 4.11)			
ACO	Shekel	4	2	#3	47119	0:03:53	23.33	(5.86, -6.79, -1.47, 4.01)			
ACO	Shekel	4	2	#4	47112	0:03:51	24.05	(6.15, -7.22, -2.18, 3.76)			
ACO	Shekel	4	2	#5	47581	0:03:35	23.64	(5.59, -7.05, -1.68, 3.76)			
ACO	Shekel	4	2	#6	47737	0:03:47	18.49	(4.83, 5.68, -1.95, 1.88)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Shekel	4	2	#7	47307	0:03:53	23.79	(6.03, -6.84, -1.58, 3.83)			
ACO	Shekel	4	2	#8	47690	0:03:37	22.72	(5.88, -6.95, -1.81, 4.10)			
ACO	Shekel	4	2	#9	47306	0:03:56	20.55	(5.85, -6.93, -1.03, 4.07)			
ACO	Shekel	4	2	#10	47608	0:03:56	17.58	(4.30, 5.47, -2.11, 2.69)			
ACO	Shekel	4	2	#11	47132	0:03:57	22.13	(5.68, -6.60, -1.98, 4.71)			
ACO	Shekel	4	2	#12	47669	0:03:38	23.97	(5.71, -7.11, -2.41, 3.86)			
ACO	Shekel	4	2	#13	46886	0:03:51	23.32	(6.16, -6.86, -2.18, 4.00)			
ACO	Shekel	4	2	#14	47493	0:03:43	22.07	(5.85, -7.02, -2.25, 3.24)			
ACO	Shekel	4	2	#15	47966	0:03:43	23.81	(6.14, -7.13, -2.28, 3.55)			
ACO	Shekel	4	3	#1	48747	0:03:46	14.88	(-7.23, 2.72, 1.09, 1.40)	22.507	3.520	26.684
ACO	Shekel	4	3	#2	48536	0:03:32	25.83	(5.80, -7.16, -2.21, 3.88)			
ACO	Shekel	4	3	#3	49167	0:04:00	22.64	(5.08, -6.97, -3.25, 4.19)			
ACO	Shekel	4	3	#4	48022	0:03:45	24.44	(5.87, -6.73, -1.45, 4.43)			
ACO	Shekel	4	3	#5	48196	0:03:43	23.04	(5.54, -6.71, -2.70, 4.25)			
ACO	Shekel	4	3	#6	48450	0:03:37	22.09	(6.17, -7.36, -2.06, 4.17)			
ACO	Shekel	4	3	#7	48558	0:03:39	23.39	(6.35, -7.82, -2.29, 4.01)			
ACO	Shekel	4	3	#8	48639	0:03:42	16.91	(2.19, 7.24, -1.67, 2.47)			
ACO	Shekel	4	3	#9	48602	0:03:56	23.12	(5.93, -6.07, -2.56, 4.10)			
ACO	Shekel	4	3	#10	47802	0:03:52	24.84	(5.59, -7.11, -1.68, 4.31)			
ACO	Shekel	4	3	#11	48824	0:03:42	20.14	(5.19, -6.58, -3.15, 2.63)			
ACO	Shekel	4	3	#12	48490	0:03:50	18.7	(4.62, 5.31, -3.26, 2.18)			
ACO	Shekel	4	3	#13	48799	0:04:02	28.18	(6.33, -7.16, -2.23, 4.38)			
ACO	Shekel	4	3	#14	47855	0:03:39	24.41	(6.08, -6.52, -2.53, 3.98)			
ACO	Shekel	4	3	#15	47364	0:03:45	24.98	(5.91, -7.19, -2.22, 4.32)			
ACO	Rastrigin	4	0	#1	33568	0:01:00	128.1	(0.00, -1.98, -1.98, 1.98)	133.924	3.302	42.530
ACO	Rastrigin	4	0	#2	33395	0:00:57	136	(0.00, 1.98, -0.01, 0.00)			
ACO	Rastrigin	4	0	#3	34091	0:01:00	132.1	(0.01, 1.98, -1.98, 0.00)			
ACO	Rastrigin	4	0	#4	33763	0:00:59	136	(1.98, 0.00, 0.00, 0.00)			
ACO	Rastrigin	4	0	#5	34353	0:00:57	136	(0.00, 0.00, 0.00, 1.98)			
ACO	Rastrigin	4	0	#6	33701	0:00:59	140	(0.00, -0.01, 0.00, 0.00)			
ACO	Rastrigin	4	0	#7	33675	0:00:59	136	(0.00, 0.00, 0.00, -1.98)			
ACO	Rastrigin	4	0	#8	33588	0:00:59	136	(0.00, 0.00, 0.00, -1.98)			
ACO	Rastrigin	4	0	#9	34143	0:00:58	132.1	(0.00, 0.00, -1.98, -1.99)			
ACO	Rastrigin	4	0	#10	33672	0:01:00	128.1	(0.00, -1.98, -1.98, 1.98)			
ACO	Rastrigin	4	0	#11	33871	0:00:56	132.1	(-1.98, 1.98, 0.00, 0.00)			
ACO	Rastrigin	4	0	#12	33591	0:00:59	136	(-0.01, 0.00, 0.00, 1.98)			
ACO	Rastrigin	4	0	#13	33401	0:00:59	132.1	(0.00, -1.98, -1.98, 0.00)			
ACO	Rastrigin	4	0	#14	33556	0:01:00	132.1	(-1.98, -1.99, 0.00, 0.00)			
ACO	Rastrigin	4	0	#15	33573	0:00:59	136	(0.00, 0.00, 0.00, -1.98)			
ACO	Rastrigin	4	1	#1	36174	0:03:05	137.9	(-0.02, -0.01, -1.96, -0.05)	139.214	2.233	42.871
ACO	Rastrigin	4	1	#2	35412	0:03:05	139.6	(-0.04, 0.00, 2.02, -0.02)			
ACO	Rastrigin	4	1	#3	35914	0:03:07	142.4	(-0.01, -0.05, -0.04, 0.02)			
ACO	Rastrigin	4	1	#4	36256	0:03:06	141.8	(-0.09, -0.07, 0.00, -0.05)			
ACO	Rastrigin	4	1	#5	35678	0:03:04	138.7	(-0.05, -0.01, -0.01, 1.99)			
ACO	Rastrigin	4	1	#6	36386	0:02:51	138.4	(-0.02, 0.01, 1.95, 0.00)			
ACO	Rastrigin	4	1	#7	35237	0:03:20	138	(0.01, -0.03, -1.99, -0.07)			
ACO	Rastrigin	4	1	#8	35763	0:02:56	134.7	(-0.01, 0.01, -1.96, 1.98)			
ACO	Rastrigin	4	1	#9	35573	0:03:00	142	(0.01, -0.02, 0.04, -0.05)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rastrigin	4	1	#10	35795	0:03:06	138.5	(-1.99, 0.01, -0.02, 0.00)			
ACO	Rastrigin	4	1	#11	35617	0:03:08	142.2	(-0.06, 0.01, -0.07, -0.04)			
ACO	Rastrigin	4	1	#12	35800	0:03:07	137.4	(0.00, 0.00, 1.99, -0.08)			
ACO	Rastrigin	4	1	#13	35378	0:03:05	141	(-0.02, -0.09, 0.04, 0.03)			
ACO	Rastrigin	4	1	#14	35838	0:03:08	138.3	(0.00, -2.02, -0.04, -0.04)			
ACO	Rastrigin	4	1	#15	36443	0:03:07	137.3	(0.06, 0.00, 0.04, -1.96)			
ACO	Rastrigin	4	2	#1	38265	0:03:16	136.7	(-0.07, 1.96, 0.00, -1.95)	140.399	2.154	42.944
ACO	Rastrigin	4	2	#2	38261	0:03:09	139.8	(0.08, 0.04, 1.92, 0.02)			
ACO	Rastrigin	4	2	#3	37873	0:03:15	142.5	(-0.06, -1.97, -0.01, -0.03)			
ACO	Rastrigin	4	2	#4	37970	0:03:18	143.5	(-0.03, -0.04, 0.00, 0.08)			
ACO	Rastrigin	4	2	#5	37982	0:03:15	140.4	(-0.01, 0.04, -1.91, 0.02)			
ACO	Rastrigin	4	2	#6	37972	0:03:09	141.8	(-1.93, -0.03, 0.02, 0.07)			
ACO	Rastrigin	4	2	#7	38251	0:03:05	139.7	(-0.09, -0.04, 1.91, -0.03)			
ACO	Rastrigin	4	2	#8	38084	0:03:18	142	(-1.97, 0.04, 0.00, -0.02)			
ACO	Rastrigin	4	2	#9	38228	0:03:09	137	(0.05, 2.02, 0.07, -2.03)			
ACO	Rastrigin	4	2	#10	38368	0:03:20	142.5	(-2.05, 0.03, -0.03, -0.02)			
ACO	Rastrigin	4	2	#11	38223	0:03:11	141	(-1.96, -0.01, 0.03, -0.06)			
ACO	Rastrigin	4	2	#12	38186	0:03:02	140.4	(-1.98, 0.01, -0.03, 0.00)			
ACO	Rastrigin	4	2	#13	38727	0:03:16	140.5	(0.03, 0.00, 0.04, 1.93)			
ACO	Rastrigin	4	2	#14	38166	0:03:05	136.6	(-1.90, 0.03, 1.99, -0.06)			
ACO	Rastrigin	4	2	#15	38119	0:03:06	141.5	(-2.02, 0.01, -0.05, -0.03)			
ACO	Rastrigin	4	3	#1	40013	0:03:12	144.8	(0.02, 2.11, 0.01, -0.04)	143.857	2.751	43.155
ACO	Rastrigin	4	3	#2	39678	0:03:10	146.9	(-0.06, 0.04, 0.02, 1.93)			
ACO	Rastrigin	4	3	#3	39915	0:03:08	143.1	(-0.03, 0.03, 2.04, 0.02)			
ACO	Rastrigin	4	3	#4	39751	0:03:26	142.5	(-2.07, -0.03, -0.01, -0.03)			
ACO	Rastrigin	4	3	#5	39955	0:03:16	143.2	(0.10, -2.01, 0.03, 0.07)			
ACO	Rastrigin	4	3	#6	39608	0:03:25	144.9	(-2.05, 0.01, 0.05, -0.15)			
ACO	Rastrigin	4	3	#7	39989	0:03:14	143.4	(0.01, 0.03, 1.93, -0.02)			
ACO	Rastrigin	4	3	#8	39779	0:03:12	147.8	(0.06, -0.04, -0.03, -0.08)			
ACO	Rastrigin	4	3	#9	40272	0:03:12	145.6	(-0.03, -0.04, 0.01, 2.03)			
ACO	Rastrigin	4	3	#10	39677	0:03:25	144.1	(-0.02, 0.07, -1.98, -0.04)			
ACO	Rastrigin	4	3	#11	39832	0:03:23	139.3	(-2.04, -0.09, -0.05, -1.99)			
ACO	Rastrigin	4	3	#12	39751	0:03:14	145	(-0.02, -0.01, 2.13, 0.03)			
ACO	Rastrigin	4	3	#13	39789	0:03:11	147.4	(-0.02, 0.09, 0.02, 0.06)			
ACO	Rastrigin	4	3	#14	40094	0:03:07	138	(-0.11, 2.02, -1.97, 0.00)			
ACO	Rastrigin	4	3	#15	39433	0:03:21	141.8	(0.08, 0.00, 0.12, -2.01)			
ACO	Rosenbrock	4	0	#1	34773	0:01:00	80	(0.00, 0.00, 0.00, 0.00)	80.000	0.000	38.062
ACO	Rosenbrock	4	0	#2	35304	0:00:58	80	(0.01, -0.01, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#3	35194	0:00:58	80	(0.00, -0.01, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#4	34648	0:00:57	80	(-0.01, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#5	35169	0:00:56	80	(0.00, -0.01, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#6	34964	0:01:00	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#7	34973	0:01:00	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#8	34840	0:01:01	80	(0.00, -0.01, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#9	35171	0:01:00	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#10	35097	0:01:00	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#11	35215	0:00:57	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#12	35244	0:01:00	80	(0.00, 0.00, 0.00, 0.00)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rosenbrock	4	0	#13	35403	0:00:57	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#14	35047	0:00:59	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	0	#15	34888	0:01:01	80	(0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	4	1	#1	49222	0:03:48	82.79	(-0.92, -4.63, -2.14, 1.61)	82.935	0.444	38.374
ACO	Rosenbrock	4	1	#2	49016	0:03:50	82.87	(1.93, -1.54, -0.55, -0.86)			
ACO	Rosenbrock	4	1	#3	48905	0:03:40	82.57	(-1.41, 1.26, -0.11, 2.14)			
ACO	Rosenbrock	4	1	#4	48975	0:03:55	82.44	(-2.71, -2.44, -0.58, 1.33)			
ACO	Rosenbrock	4	1	#5	49009	0:03:56	83.08	(-2.70, 6.07, -0.57, 2.09)			
ACO	Rosenbrock	4	1	#6	48966	0:03:59	82.88	(-0.53, -1.71, -0.92, 0.27)			
ACO	Rosenbrock	4	1	#7	49268	0:03:47	82.93	(-0.27, -1.41, -1.49, 1.88)			
ACO	Rosenbrock	4	1	#8	49105	0:03:47	83.83	(-5.67, -8.84, -1.64, 6.83)			
ACO	Rosenbrock	4	1	#9	49151	0:03:57	82.9	(-2.26, -1.73, 0.70, -0.57)			
ACO	Rosenbrock	4	1	#10	49090	0:03:41	82.62	(-0.42, -0.95, -0.75, 1.46)			
ACO	Rosenbrock	4	1	#11	48830	0:03:48	82.74	(0.89, -3.28, -1.58, 1.47)			
ACO	Rosenbrock	4	1	#12	49006	0:03:57	82.86	(0.52, -6.23, 1.44, 0.60)			
ACO	Rosenbrock	4	1	#13	49042	0:03:33	82.59	(-2.05, 1.97, -1.10, 5.71)			
ACO	Rosenbrock	4	1	#14	49016	0:03:58	82.87	(2.30, -3.20, -1.60, -2.57)			
ACO	Rosenbrock	4	1	#15	49152	0:03:53	84.06	(-0.47, -2.61, -0.12, 3.31)			
ACO	Rosenbrock	4	2	#1	48972	0:03:58	86.49	(2.89, 3.20, -0.04, 3.50)	86.233	0.792	38.713
ACO	Rosenbrock	4	2	#2	49033	0:03:42	85.85	(1.57, -5.55, 2.23, -4.58)			
ACO	Rosenbrock	4	2	#3	48806	0:03:41	86.61	(1.63, -3.87, 1.14, -1.52)			
ACO	Rosenbrock	4	2	#4	48883	0:03:57	88.47	(-0.12, -6.11, 0.63, 2.46)			
ACO	Rosenbrock	4	2	#5	48797	0:03:55	86.38	(-0.39, -7.38, 0.42, 0.50)			
ACO	Rosenbrock	4	2	#6	48801	0:03:38	85.27	(2.65, -6.11, 0.13, 2.17)			
ACO	Rosenbrock	4	2	#7	48844	0:03:46	86.06	(2.20, -2.66, 0.88, 1.37)			
ACO	Rosenbrock	4	2	#8	48804	0:03:52	86.15	(-0.71, 4.21, -0.31, -1.36)			
ACO	Rosenbrock	4	2	#9	48834	0:03:44	85.42	(-1.20, -8.10, -0.77, 1.97)			
ACO	Rosenbrock	4	2	#10	48806	0:03:53	85.16	(0.76, -2.69, -2.31, 0.23)			
ACO	Rosenbrock	4	2	#11	48968	0:03:48	85.78	(-1.34, -5.59, -1.18, 0.95)			
ACO	Rosenbrock	4	2	#12	48959	0:03:58	86.21	(1.29, 3.18, -2.36, 1.11)			
ACO	Rosenbrock	4	2	#13	48838	0:03:54	86.64	(0.68, -5.51, -0.32, -0.69)			
ACO	Rosenbrock	4	2	#14	48980	0:03:59	86.76	(3.56, -5.10, -0.20, 1.25)			
ACO	Rosenbrock	4	2	#15	48917	0:03:58	86.25	(0.54, 2.90, 0.80, 4.86)			
ACO	Rosenbrock	4	3	#1	48912	0:03:36	88.62	(-2.28, -0.31, -0.70, 0.55)	89.353	0.885	39.021
ACO	Rosenbrock	4	3	#2	48693	0:03:47	89.58	(-3.28, -1.10, -1.53, -0.32)			
ACO	Rosenbrock	4	3	#3	48880	0:03:53	89.14	(-5.24, -3.15, -0.11, 4.14)			
ACO	Rosenbrock	4	3	#4	49197	0:03:45	89.57	(1.36, 7.71, 0.06, 1.85)			
ACO	Rosenbrock	4	3	#5	48821	0:04:01	89.73	(-3.34, 4.01, 0.81, -1.65)			
ACO	Rosenbrock	4	3	#6	48676	0:03:56	90.94	(-0.73, 0.66, 0.09, 2.37)			
ACO	Rosenbrock	4	3	#7	48761	0:04:02	88.86	(0.89, 6.11, 0.05, -1.80)			
ACO	Rosenbrock	4	3	#8	48841	0:03:59	89.05	(0.24, -3.93, 0.09, -4.07)			
ACO	Rosenbrock	4	3	#9	48584	0:03:54	89.58	(0.04, -2.73, -0.37, 2.53)			
ACO	Rosenbrock	4	3	#10	48778	0:03:27	90.41	(1.08, 9.26, -0.25, -2.81)			
ACO	Rosenbrock	4	3	#11	49072	0:04:01	90.55	(2.40, 6.52, -1.23, 3.92)			
ACO	Rosenbrock	4	3	#12	48898	0:03:51	89.25	(4.27, -0.31, -2.00, 5.65)			
ACO	Rosenbrock	4	3	#13	48984	0:03:51	89.37	(1.03, -0.81, -0.06, -0.98)			
ACO	Rosenbrock	4	3	#14	49006	0:03:57	87.9	(-4.17, -12.07, -1.36, 4.83)			
ACO	Rosenbrock	4	3	#15	48766	0:03:53	87.75	(-1.78, -10.38, -1.33, 4.00)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Styblinski	4	0	#1	34578	0:00:58	392.5	(-2.90, -2.91, -2.91, 1.00)	391.519	3.643	51.854
ACO	Styblinski	4	0	#2	34647	0:00:58	392.5	(-2.91, -2.91, -2.90, 1.00)			
ACO	Styblinski	4	0	#3	34449	0:00:57	392.5	(-2.90, -2.91, -2.90, 1.01)			
ACO	Styblinski	4	0	#4	36213	0:00:49	392.5	(-2.91, -2.91, -2.91, 0.99)			
ACO	Styblinski	4	0	#5	35346	0:00:52	392.5	(-2.91, -2.91, -2.91, 0.99)			
ACO	Styblinski	4	0	#6	34851	0:00:58	378.4	(2.74, -2.90, -2.91, 1.00)			
ACO	Styblinski	4	0	#7	34923	0:00:57	392.5	(-2.91, -2.91, -2.91, 0.99)			
ACO	Styblinski	4	0	#8	35746	0:00:53	392	(-2.98, -2.94, -2.86, 1.63)			
ACO	Styblinski	4	0	#9	35295	0:00:53	392.5	(-2.91, -2.91, -2.90, 0.97)			
ACO	Styblinski	4	0	#10	35079	0:00:56	392.5	(-2.91, -2.91, -2.90, 0.99)			
ACO	Styblinski	4	0	#11	35394	0:00:54	392.5	(-2.91, -2.90, -2.91, 0.98)			
ACO	Styblinski	4	0	#12	35424	0:00:53	392.5	(-2.91, -2.91, -2.91, 1.01)			
ACO	Styblinski	4	0	#13	34850	0:00:58	392.5	(-2.90, -2.90, -2.90, 0.99)			
ACO	Styblinski	4	0	#14	34694	0:00:56	392.5	(-2.91, -2.91, -2.91, 0.98)			
ACO	Styblinski	4	0	#15	34798	0:00:57	392.5	(-2.91, -2.91, -2.90, 0.99)			
ACO	Styblinski	4	1	#1	44239	0:03:20	394.6	(-2.85, -2.89, -2.81, 0.91)	393.984	3.648	51.909
ACO	Styblinski	4	1	#2	43795	0:03:22	395.2	(-2.88, -2.91, -2.90, 0.76)			
ACO	Styblinski	4	1	#3	44037	0:03:29	395.8	(-2.82, -2.98, -2.85, 1.46)			
ACO	Styblinski	4	1	#4	43949	0:03:28	394.7	(-2.96, -2.84, -2.93, 0.15)			
ACO	Styblinski	4	1	#5	43938	0:03:20	395.1	(-2.96, -2.79, -2.97, 0.87)			
ACO	Styblinski	4	1	#6	43863	0:03:29	393.6	(-2.83, -2.82, -2.93, 2.06)			
ACO	Styblinski	4	1	#7	44096	0:03:17	393.9	(-2.82, -2.90, -2.99, 0.18)			
ACO	Styblinski	4	1	#8	44268	0:03:22	395.5	(-2.92, -2.88, -3.03, 0.88)			
ACO	Styblinski	4	1	#9	44072	0:03:23	394.6	(-2.87, -2.88, -2.83, 1.56)			
ACO	Styblinski	4	1	#10	43775	0:03:41	395.3	(-2.97, -2.74, -2.91, 0.40)			
ACO	Styblinski	4	1	#11	43787	0:03:40	381	(-3.00, 2.76, -2.90, 0.93)			
ACO	Styblinski	4	1	#12	44009	0:03:31	395.1	(-2.96, -2.87, -2.95, 1.52)			
ACO	Styblinski	4	1	#13	43955	0:03:21	394.6	(-2.94, -2.94, -2.83, 0.48)			
ACO	Styblinski	4	1	#14	44189	0:03:36	395.3	(-2.92, -2.88, -2.92, 1.10)			
ACO	Styblinski	4	1	#15	44122	0:03:20	395.3	(-2.82, -2.96, -2.89, 1.10)			
ACO	Styblinski	4	2	#1	45400	0:03:37	399.9	(-2.78, -2.96, -2.84, 1.64)	395.461	5.028	51.940
ACO	Styblinski	4	2	#2	45078	0:03:27	396.7	(-3.22, -2.98, -2.92, 0.75)			
ACO	Styblinski	4	2	#3	45138	0:03:31	397.2	(-2.98, -2.83, -2.72, 1.11)			
ACO	Styblinski	4	2	#4	45379	0:03:26	383.6	(-2.92, 2.74, -2.95, 1.19)			
ACO	Styblinski	4	2	#5	45023	0:03:36	396.7	(-2.81, -2.75, -3.09, 1.84)			
ACO	Styblinski	4	2	#6	45162	0:03:32	397.1	(-2.94, -2.89, -2.94, 0.69)			
ACO	Styblinski	4	2	#7	45103	0:03:34	397.9	(-2.98, -2.91, -2.94, 1.06)			
ACO	Styblinski	4	2	#8	45062	0:03:29	397.5	(-2.98, -3.05, -2.92, 0.64)			
ACO	Styblinski	4	2	#9	45162	0:03:27	396.1	(-2.74, -2.85, -3.05, 1.04)			
ACO	Styblinski	4	2	#10	45347	0:03:16	397	(-2.76, -2.90, -2.87, 1.24)			
ACO	Styblinski	4	2	#11	45056	0:03:08	383	(-3.15, -2.91, 2.64, 1.45)			
ACO	Styblinski	4	2	#12	45382	0:03:27	396.1	(-2.94, -2.87, -2.86, 2.84)			
ACO	Styblinski	4	2	#13	45182	0:03:23	397.5	(-2.86, -2.95, -2.83, 0.60)			
ACO	Styblinski	4	2	#14	45098	0:03:21	397.9	(-2.88, -2.85, -2.95, 1.48)			
ACO	Styblinski	4	2	#15	45274	0:03:26	397.9	(-2.86, -2.75, -3.01, 0.90)			
ACO	Styblinski	4	3	#1	45642	0:03:30	400.8	(-2.93, -2.80, -2.86, 1.16)	399.738	2.090	52.035
ACO	Styblinski	4	3	#2	45751	0:03:42	401.5	(-2.93, -3.14, -2.95, 0.14)			
ACO	Styblinski	4	3	#3	45616	0:03:28	403.1	(-2.78, -2.88, -3.01, 1.57)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Styblinski	4	3	#4	45783	0:03:18	399.8	(-2.38, -3.00, -2.86, 2.03)			
ACO	Styblinski	4	3	#5	45642	0:03:29	397.1	(-2.90, -2.78, -3.07, -0.39)			
ACO	Styblinski	4	3	#6	45686	0:03:41	398.6	(-2.98, -3.05, -3.04, -0.25)			
ACO	Styblinski	4	3	#7	45725	0:03:35	402	(-2.84, -2.93, -2.84, -0.24)			
ACO	Styblinski	4	3	#8	45714	0:03:26	401.4	(-2.57, -2.90, -2.99, 0.91)			
ACO	Styblinski	4	3	#9	45930	0:03:36	399.1	(-2.93, -3.02, -2.65, 1.08)			
ACO	Styblinski	4	3	#10	45698	0:03:34	399.4	(-2.94, -2.83, -2.79, 1.88)			
ACO	Styblinski	4	3	#11	45686	0:03:35	397.1	(-3.03, -3.01, -2.78, 0.63)			
ACO	Styblinski	4	3	#12	45951	0:03:23	399	(-2.90, -2.80, -2.86, 1.16)			
ACO	Styblinski	4	3	#13	45795	0:03:28	401.6	(-3.00, -2.79, -2.70, 1.63)			
ACO	Styblinski	4	3	#14	45463	0:03:34	395.5	(-3.01, -2.61, -3.13, 1.28)			
ACO	Styblinski	4	3	#15	45680	0:03:39	400.1	(-2.92, -2.97, -2.84, 1.23)			
ACO	Parabolic	5	0	#1	70046	0:02:16	12	(0.00, 0.00, 0.00, 0.00, 0.00)	12.000	0.000	21.584
ACO	Parabolic	5	0	#2	70233	0:02:26	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#3	71669	0:02:24	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#4	69718	0:02:27	12	(0.00, -0.01, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#5	70167	0:02:27	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#6	70133	0:02:27	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#7	70264	0:02:25	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#8	70504	0:02:25	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#9	69628	0:02:26	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#10	70148	0:02:26	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#11	70469	0:02:25	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#12	69882	0:02:24	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#13	69841	0:02:25	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#14	70692	0:02:21	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	0	#15	69384	0:02:20	12	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Parabolic	5	1	#1	97122	0:05:11	15.28	(0.22, 2.14, -4.26, 0.00, -0.52)	15.105	0.368	23.576
ACO	Parabolic	5	1	#2	96692	0:05:39	14.91	(-2.02, -2.08, 1.95, -1.80, 1.49)			
ACO	Parabolic	5	1	#3	96931	0:05:18	14.87	(0.25, 0.53, 4.01, 1.47, -0.63)			
ACO	Parabolic	5	1	#4	96933	0:05:26	14.73	(-5.24, 0.94, -0.97, 1.65, 1.45)			
ACO	Parabolic	5	1	#5	96659	0:05:31	14.95	(4.50, 1.79, -2.89, 3.95, 2.79)			
ACO	Parabolic	5	1	#6	96902	0:05:24	15.29	(-3.60, -4.73, -2.92, -2.09, -0.70)			
ACO	Parabolic	5	1	#7	97046	0:05:39	15.92	(0.64, 1.71, -1.92, 0.87, -0.36)			
ACO	Parabolic	5	1	#8	96893	0:05:29	15.13	(-5.20, 3.19, -1.00, -0.20, -1.01)			
ACO	Parabolic	5	1	#9	96939	0:05:34	14.79	(-0.49, 1.32, 2.54, 1.40, 1.73)			
ACO	Parabolic	5	1	#10	96889	0:05:26	14.51	(1.76, 1.37, -2.64, -0.39, -0.10)			
ACO	Parabolic	5	1	#11	97413	0:05:34	15.18	(-2.78, -3.36, -0.77, -1.28, 0.90)			
ACO	Parabolic	5	1	#12	96900	0:05:33	15.16	(-1.05, 1.80, 4.38, 5.48, -1.31)			
ACO	Parabolic	5	1	#13	96979	0:05:34	15.09	(-0.16, 0.30, -2.17, 1.22, -1.93)			
ACO	Parabolic	5	1	#14	97004	0:05:23	15.77	(-1.34, -0.65, -1.42, -2.06, 3.75)			
ACO	Parabolic	5	1	#15	96859	0:05:26	14.99	(0.81, -1.43, 0.65, -1.50, -2.77)			
ACO	Parabolic	5	2	#1	97357	0:05:31	18.58	(-2.15, 1.08, -2.91, 5.42, 5.50)	18.023	0.784	25.097
ACO	Parabolic	5	2	#2	97310	0:05:14	17.09	(-1.39, 2.23, 2.83, 0.31, 3.37)			
ACO	Parabolic	5	2	#3	97462	0:05:22	17.74	(-1.43, 6.38, -0.01, -2.53, 4.82)			
ACO	Parabolic	5	2	#4	97300	0:05:11	17.06	(-4.48, 0.64, 2.69, -0.01, 1.34)			
ACO	Parabolic	5	2	#5	97568	0:05:37	17.63	(-3.75, 3.68, -2.05, -5.29, 3.96)			
ACO	Parabolic	5	2	#6	97467	0:05:51	18.18	(-2.55, -3.36, 1.84, -1.99, 0.31)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Parabolic	5	2	#7	97305	0:05:22	17.48	(2.13, -3.44, 1.71, -5.68, -0.57)			
ACO	Parabolic	5	2	#8	97584	0:05:31	17.6	(-2.60, -2.46, 4.07, -0.35, -4.72)			
ACO	Parabolic	5	2	#9	97945	0:05:33	19.58	(-2.36, -0.50, -1.39, 1.19, 6.93)			
ACO	Parabolic	5	2	#10	97399	0:05:27	17.74	(-2.88, -0.25, -5.00, -7.73, 0.63)			
ACO	Parabolic	5	2	#11	97375	0:05:32	17.68	(-2.15, 0.61, 0.55, 6.74, 3.55)			
ACO	Parabolic	5	2	#12	97557	0:05:38	18.54	(1.59, 0.06, 1.15, -0.07, -1.79)			
ACO	Parabolic	5	2	#13	97195	0:05:33	18.04	(1.31, -8.21, 4.01, 2.99, -2.80)			
ACO	Parabolic	5	2	#14	97520	0:05:31	17.72	(-4.28, -4.06, -1.09, -2.67, 3.28)			
ACO	Parabolic	5	2	#15	97403	0:05:35	19.69	(-2.83, 0.93, 3.25, 3.39, 7.21)			
ACO	Parabolic	5	3	#1	97810	0:05:43	20.49	(-6.29, -3.42, 2.67, 0.32, -4.52)	21.170	1.280	26.473
ACO	Parabolic	5	3	#2	97809	0:05:31	20.27	(-2.44, -2.25, -0.87, 0.21, -6.84)			
ACO	Parabolic	5	3	#3	97569	0:05:34	20.54	(-3.49, -2.05, 2.40, -6.83, 3.98)			
ACO	Parabolic	5	3	#4	97713	0:05:46	21	(2.88, -0.06, -1.94, 0.83, 6.94)			
ACO	Parabolic	5	3	#5	97948	0:05:35	20.9	(0.39, -1.17, 2.66, 5.15, -3.29)			
ACO	Parabolic	5	3	#6	97173	0:05:22	21.29	(-0.78, 0.38, 4.10, -1.25, 1.85)			
ACO	Parabolic	5	3	#7	97644	0:05:40	20.54	(2.81, -0.83, 1.37, -1.39, -9.09)			
ACO	Parabolic	5	3	#8	97570	0:05:31	19.54	(4.96, 2.19, 2.85, 3.61, 5.28)			
ACO	Parabolic	5	3	#9	97807	0:05:43	21.64	(-0.32, 1.52, 1.62, -5.84, -2.14)			
ACO	Parabolic	5	3	#10	97393	0:05:42	24.14	(-2.15, 2.83, 0.44, 6.09, -0.51)			
ACO	Parabolic	5	3	#11	97646	0:05:36	18.91	(-1.02, -3.78, -1.84, -2.34, 1.14)			
ACO	Parabolic	5	3	#12	97327	0:05:49	22.6	(-2.75, 2.97, 0.23, -1.24, 1.69)			
ACO	Parabolic	5	3	#13	97655	0:05:44	21.85	(-2.18, -2.94, 0.21, -5.96, -0.69)			
ACO	Parabolic	5	3	#14	97581	0:05:44	22.3	(-4.15, 0.59, 3.07, 1.76, 1.09)			
ACO	Parabolic	5	3	#15	97481	0:05:38	21.56	(-1.74, -1.59, -5.05, 0.89, -0.15)			
ACO	Shekel	5	0	#1	69687	0:02:43	18.18	(5.99, -6.99, -2.00, 3.98, 2.00)	17.138	2.154	24.465
ACO	Shekel	5	0	#2	70482	0:02:43	18.18	(5.99, -6.98, -2.00, 3.99, 2.00)			
ACO	Shekel	5	0	#3	74269	0:02:48	12.98	(3.96, 5.94, -2.01, 1.97, 4.00)			
ACO	Shekel	5	0	#4	72168	0:02:38	18.18	(5.99, -6.99, -2.01, 3.99, 2.00)			
ACO	Shekel	5	0	#5	71561	0:02:33	18.18	(5.98, -6.98, -2.01, 3.99, 2.00)			
ACO	Shekel	5	0	#6	71051	0:02:33	12.98	(3.96, 5.94, -2.01, 1.98, 4.01)			
ACO	Shekel	5	0	#7	71255	0:02:31	18.18	(5.99, -6.98, -2.01, 3.99, 2.01)			
ACO	Shekel	5	0	#8	71315	0:02:36	18.18	(5.98, -6.98, -2.01, 3.99, 2.00)			
ACO	Shekel	5	0	#9	74053	0:02:23	18.18	(5.98, -6.99, -2.00, 3.99, 2.01)			
ACO	Shekel	5	0	#10	70352	0:02:36	12.98	(3.97, 5.93, -2.01, 1.98, 4.00)			
ACO	Shekel	5	0	#11	70668	0:02:34	18.18	(5.98, -6.97, -2.00, 3.98, 2.00)			
ACO	Shekel	5	0	#12	70514	0:02:37	18.18	(5.98, -6.98, -2.01, 3.98, 2.01)			
ACO	Shekel	5	0	#13	71922	0:02:30	18.18	(5.99, -6.98, -2.00, 3.98, 2.00)			
ACO	Shekel	5	0	#14	72209	0:02:35	18.18	(5.98, -6.98, -2.01, 3.99, 2.00)			
ACO	Shekel	5	0	#15	71250	0:02:29	18.18	(5.99, -6.98, -2.01, 3.99, 2.00)			
ACO	Shekel	5	1	#1	92644	0:05:32	15.47	(3.87, 5.80, -1.97, 2.14, 4.42)	18.422	2.609	25.125
ACO	Shekel	5	1	#2	91845	0:05:42	20.99	(5.77, -7.12, -2.07, 4.32, 1.90)			
ACO	Shekel	5	1	#3	94331	0:05:24	14.47	(4.15, 5.31, -1.64, 1.87, 3.59)			
ACO	Shekel	5	1	#4	92180	0:05:32	16.04	(3.75, 5.79, -1.62, 1.71, 3.79)			
ACO	Shekel	5	1	#5	92804	0:05:39	15.6	(3.95, 5.95, -1.91, 2.40, 4.22)			
ACO	Shekel	5	1	#6	92580	0:05:33	21.09	(6.06, -6.73, -2.03, 3.77, 1.87)			
ACO	Shekel	5	1	#7	92430	0:05:17	20.28	(5.95, -6.91, -2.13, 4.12, 1.97)			
ACO	Shekel	5	1	#8	92369	0:05:19	20.36	(5.76, -6.82, -2.17, 3.79, 2.14)			
ACO	Shekel	5	1	#9	94210	0:05:20	20.13	(6.14, -6.49, -2.05, 4.05, 1.70)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Shekel	5	1	#10	91190	0:05:28	20.66	(5.92, -6.77, -1.96, 4.11, 1.95)			
ACO	Shekel	5	1	#11	92731	0:05:27	15.49	(3.89, 5.81, -2.08, 1.43, 4.37)			
ACO	Shekel	5	1	#12	92772	0:05:19	19.28	(5.72, -6.73, -1.45, 4.08, 1.93)			
ACO	Shekel	5	1	#13	90848	0:05:35	20.83	(6.05, -6.98, -1.95, 4.09, 2.04)			
ACO	Shekel	5	1	#14	92366	0:05:25	20.32	(5.98, -7.37, -2.05, 4.09, 2.30)			
ACO	Shekel	5	1	#15	92846	0:05:42	15.31	(4.04, 6.04, -2.46, 1.85, 3.84)			
ACO	Shekel	5	2	#1	96563	0:05:45	17.61	(3.66, 6.45, -1.84, 2.95, 3.92)	19.090	3.760	25.092
ACO	Shekel	5	2	#2	95713	0:05:40	22.91	(6.34, -6.95, -2.07, 3.70, 2.22)			
ACO	Shekel	5	2	#3	97397	0:05:53	15.93	(4.31, 5.77, -2.00, 2.35, 4.09)			
ACO	Shekel	5	2	#4	96976	0:05:55	14.93	(-7.90, -8.61, 0.44, -7.22, -0.61)			
ACO	Shekel	5	2	#5	95789	0:05:36	20.98	(5.72, -6.84, -1.08, 3.65, 1.98)			
ACO	Shekel	5	2	#6	94385	0:05:39	21.85	(5.78, -7.34, -2.02, 4.37, 2.01)			
ACO	Shekel	5	2	#7	98056	0:05:59	13.46	(-7.95, -7.53, 1.75, -6.30, -1.23)			
ACO	Shekel	5	2	#8	95630	0:06:00	22.32	(6.03, -7.14, -1.66, 4.14, 2.01)			
ACO	Shekel	5	2	#9	95190	0:05:45	23.22	(5.81, -6.98, -2.20, 3.71, 1.63)			
ACO	Shekel	5	2	#10	96005	0:05:43	21.24	(5.53, -7.17, -1.70, 3.95, 1.93)			
ACO	Shekel	5	2	#11	95006	0:05:43	22.4	(5.64, -7.19, -1.78, 4.00, 1.73)			
ACO	Shekel	5	2	#12	97649	0:06:08	15.56	(3.62, 6.12, -1.66, 2.47, 4.50)			
ACO	Shekel	5	2	#13	95096	0:06:09	17.99	(4.06, 5.68, -2.21, 1.01, 4.44)			
ACO	Shekel	5	2	#14	96155	0:05:41	23.06	(5.91, -7.18, -2.29, 3.73, 2.47)			
ACO	Shekel	5	2	#15	97358	0:06:09	12.89	(-7.78, -6.45, 1.29, -6.59, -0.75)			
ACO	Shekel	5	3	#1	97471	0:05:57	18.08	(4.65, 7.06, -2.15, 0.95, 4.29)	16.631	4.389	23.616
ACO	Shekel	5	3	#2	98848	0:05:55	12.91	(-1.59, 6.01, -3.60, -2.79, 6.78)			
ACO	Shekel	5	3	#3	97643	0:06:04	22.69	(5.97, -7.40, -2.88, 3.57, 2.27)			
ACO	Shekel	5	3	#4	98726	0:06:01	11.48	(4.44, 8.46, -2.18, -1.02, 6.87)			
ACO	Shekel	5	3	#5	98451	0:05:49	10.56	(12.13, -1.03, 2.11, 5.37, 8.26)			
ACO	Shekel	5	3	#6	98177	0:05:58	13.87	(-6.61, 4.69, 4.50, -2.80, 2.97)			
ACO	Shekel	5	3	#7	98756	0:05:46	11.63	(-3.03, -9.11, -5.88, -7.43, 7.55)			
ACO	Shekel	5	3	#8	97907	0:03:15	17.33	(3.28, 5.10, -2.70, 1.68, 3.99)			
ACO	Shekel	5	3	#9	97671	0:06:16	22.02	(6.23, -6.94, -2.12, 3.14, 3.24)			
ACO	Shekel	5	3	#10	96262	0:05:40	20.34	(4.64, 5.66, -1.61, 1.23, 4.06)			
ACO	Shekel	5	3	#11	98494	0:06:04	14.87	(3.34, 2.61, -2.38, -0.99, 1.05)			
ACO	Shekel	5	3	#12	98146	0:06:01	17.58	(2.58, 6.59, -1.94, 2.95, 2.46)			
ACO	Shekel	5	3	#13	98548	0:06:07	12.72	(-5.91, 1.70, 7.65, 2.10, 4.13)			
ACO	Shekel	5	3	#14	97300	0:05:57	19.77	(4.30, 6.29, -2.14, 1.34, 3.94)			
ACO	Shekel	5	3	#15	97048	0:05:34	23.61	(5.86, -6.99, -1.60, 3.67, 1.52)			
ACO	Rastrigin	5	0	#1	67817	0:02:22	152.1	(0.00, 0.00, 1.98, 0.00, -1.98)	151.544	3.922	43.603
ACO	Rastrigin	5	0	#2	68013	0:02:25	148.1	(-1.98, -1.98, 0.00, 0.00, -1.99)			
ACO	Rastrigin	5	0	#3	69400	0:02:16	148.1	(1.97, 0.00, 1.98, 0.00, -1.98)			
ACO	Rastrigin	5	0	#4	68003	0:02:28	148.1	(-1.98, 0.00, 1.98, -1.98, 0.00)			
ACO	Rastrigin	5	0	#5	67965	0:02:24	160	(0.00, 0.00, -0.01, 0.00, 0.00)			
ACO	Rastrigin	5	0	#6	68744	0:02:22	152.1	(-0.01, 0.00, -1.98, -1.99, 0.00)			
ACO	Rastrigin	5	0	#7	67089	0:02:30	152.1	(-1.98, 0.00, -1.98, 0.00, -0.01)			
ACO	Rastrigin	5	0	#8	68429	0:02:24	152.1	(1.99, 0.00, 0.00, -0.01, 1.98)			
ACO	Rastrigin	5	0	#9	66931	0:02:30	156	(-0.01, -0.01, -1.98, 0.00, 0.00)			
ACO	Rastrigin	5	0	#10	68091	0:02:21	152.1	(-1.98, 0.00, -1.98, -0.01, 0.00)			
ACO	Rastrigin	5	0	#11	66814	0:02:29	152.1	(1.98, 0.00, 1.97, -0.01, 0.00)			
ACO	Rastrigin	5	0	#12	67937	0:02:27	156	(0.00, 0.00, 0.00, -1.98, -0.01)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rastrigin	5	0	#13	69574	0:02:20	148.1	(1.98, 0.01, -1.98, -1.97, 0.00)			
ACO	Rastrigin	5	0	#14	68309	0:02:23	152.1	(1.99, -1.98, -0.01, 0.00, 0.00)			
ACO	Rastrigin	5	0	#15	67474	0:02:28	144.2	(-1.98, -1.98, -0.01, -1.99, 1.98)			
ACO	Rastrigin	5	1	#1	71345	0:04:22	162.2	(-0.02, -0.03, -0.02, 0.00, -0.07)	156.246	3.927	43.869
ACO	Rastrigin	5	1	#2	69668	0:04:43	150.4	(-1.98, -0.03, 0.04, -1.98, 1.98)			
ACO	Rastrigin	5	1	#3	70934	0:04:22	157.8	(0.00, -0.03, 0.00, 1.93, 0.04)			
ACO	Rastrigin	5	1	#4	69599	0:05:01	154.3	(0.01, -0.02, 1.92, -1.98, -0.02)			
ACO	Rastrigin	5	1	#5	69722	0:04:41	150.1	(1.99, 1.97, 1.95, -0.01, -0.04)			
ACO	Rastrigin	5	1	#6	69655	0:04:14	155	(1.97, -0.04, -0.01, -2.00, 0.01)			
ACO	Rastrigin	5	1	#7	69377	0:04:34	150.6	(0.01, 1.93, -0.01, 1.99, -1.96)			
ACO	Rastrigin	5	1	#8	69426	0:04:46	161.9	(0.01, -0.03, -0.06, -0.03, -0.01)			
ACO	Rastrigin	5	1	#9	70407	0:04:42	158.1	(0.04, -0.01, 0.03, 1.98, -0.05)			
ACO	Rastrigin	5	1	#10	69854	0:04:42	158.3	(-1.97, 0.01, 0.05, -0.02, -0.04)			
ACO	Rastrigin	5	1	#11	69348	0:04:42	158	(0.03, -0.01, 0.00, 0.01, -1.96)			
ACO	Rastrigin	5	1	#12	69900	0:04:36	154.1	(-0.02, -0.01, -0.03, 1.97, -1.98)			
ACO	Rastrigin	5	1	#13	70870	0:04:38	158.1	(-0.01, -0.03, -2.03, 0.00, -0.02)			
ACO	Rastrigin	5	1	#14	70609	0:04:19	154.6	(-1.99, 0.07, -0.04, 1.97, 0.00)			
ACO	Rastrigin	5	1	#15	70539	0:04:26	160.1	(0.00, -0.06, 0.02, -0.08, -0.05)			
ACO	Rastrigin	5	2	#1	74217	0:04:46	162.7	(-0.03, -0.01, -0.01, -1.99, 0.00)	157.933	4.319	43.962
ACO	Rastrigin	5	2	#2	74637	0:04:39	159	(0.01, -0.08, -1.91, 0.05, 0.04)			
ACO	Rastrigin	5	2	#3	74775	0:04:30	164.5	(-0.01, -0.05, 0.03, -0.07, -0.06)			
ACO	Rastrigin	5	2	#4	73628	0:04:53	160.3	(0.00, -0.03, -0.01, 0.04, -2.02)			
ACO	Rastrigin	5	2	#5	74470	0:04:53	153.4	(2.01, -1.96, 1.93, -0.04, 0.02)			
ACO	Rastrigin	5	2	#6	73931	0:04:48	149.5	(-1.96, -1.99, -1.99, 2.02, -0.01)			
ACO	Rastrigin	5	2	#7	73374	0:04:47	157.8	(-0.02, -0.03, 0.02, 2.03, -1.94)			
ACO	Rastrigin	5	2	#8	73757	0:04:34	150.9	(0.05, 1.86, -0.03, -2.01, 1.93)			
ACO	Rastrigin	5	2	#9	74183	0:04:40	155.8	(0.00, 0.05, 1.93, -2.02, 0.01)			
ACO	Rastrigin	5	2	#10	74472	0:04:36	161.6	(-0.01, 0.00, -0.03, 0.02, 1.91)			
ACO	Rastrigin	5	2	#11	73959	0:04:35	156.8	(-1.92, 0.00, 0.03, 0.00, -1.99)			
ACO	Rastrigin	5	2	#12	73424	0:04:55	162	(2.00, -0.01, 0.02, -0.02, -0.01)			
ACO	Rastrigin	5	2	#13	74372	0:04:28	157.1	(-0.02, 2.00, -1.95, 0.07, 0.00)			
ACO	Rastrigin	5	2	#14	74060	0:04:42	156.6	(2.01, -0.01, 0.02, -2.05, -0.03)			
ACO	Rastrigin	5	2	#15	74701	0:04:54	161	(-1.94, -0.05, 0.01, -0.03, 0.07)			
ACO	Rastrigin	5	3	#1	78437	0:04:34	162.7	(0.12, 0.02, -0.04, 0.11, 0.00)	160.549	4.297	44.103
ACO	Rastrigin	5	3	#2	77204	0:04:39	167.8	(0.03, -0.02, -0.01, 0.03, 0.00)			
ACO	Rastrigin	5	3	#3	77850	0:04:41	161.2	(-0.05, 0.01, -0.03, 1.88, 0.00)			
ACO	Rastrigin	5	3	#4	77678	0:04:51	148.8	(-1.97, 0.03, 1.93, 2.04, -1.97)			
ACO	Rastrigin	5	3	#5	78016	0:04:49	158.7	(-0.03, 2.00, 2.10, 0.02, -0.04)			
ACO	Rastrigin	5	3	#6	77520	0:04:56	163.1	(-0.01, 0.02, 1.94, -0.13, -0.06)			
ACO	Rastrigin	5	3	#7	76682	0:04:56	163.4	(0.06, 1.93, 0.03, 0.04, -0.04)			
ACO	Rastrigin	5	3	#8	77715	0:04:46	157.7	(1.91, -0.04, -0.03, 0.02, -2.05)			
ACO	Rastrigin	5	3	#9	77458	0:04:38	157.5	(0.02, -0.06, 2.03, 1.96, 0.00)			
ACO	Rastrigin	5	3	#10	76801	0:04:54	160.8	(1.97, 0.02, 0.04, -0.08, -0.06)			
ACO	Rastrigin	5	3	#11	77720	0:04:53	161.3	(0.05, -1.92, 0.07, -0.03, -0.05)			
ACO	Rastrigin	5	3	#12	76996	0:05:00	160.9	(0.08, 1.99, -0.05, -2.00, 0.03)			
ACO	Rastrigin	5	3	#13	77649	0:04:56	163.3	(0.00, -1.95, 0.09, -0.08, 0.10)			
ACO	Rastrigin	5	3	#14	77148	0:05:02	157.3	(-2.01, -0.02, 2.03, 0.07, -0.04)			
ACO	Rastrigin	5	3	#15	77268	0:04:50	163.6	(-0.01, -0.08, 0.02, 2.03, -0.03)			

Heuristic	Model	Var	Stdev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rosenbrock	5	0	#1	73282	0:02:18	80	(0.00, 0.00, 0.00, 0.01, 0.00)	80.000	0.000	38.062
ACO	Rosenbrock	5	0	#2	70915	0:02:27	80	(0.00, 0.01, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#3	73057	0:02:22	80	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#4	73828	0:02:25	80	(0.00, 0.00, 0.00, 0.00, 0.01)			
ACO	Rosenbrock	5	0	#5	72012	0:02:29	80	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#6	70552	0:02:27	80	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#7	71835	0:02:37	80	(0.00, -0.01, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#8	71750	0:02:23	80	(0.00, -0.01, 0.00, 0.01, 0.00)			
ACO	Rosenbrock	5	0	#9	72544	0:02:25	80	(0.00, -0.01, 0.00, 0.00, -0.01)			
ACO	Rosenbrock	5	0	#10	70547	0:02:29	80	(0.00, 0.00, 0.00, 0.00, -0.01)			
ACO	Rosenbrock	5	0	#11	70869	0:02:28	80	(0.00, -0.01, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#12	70970	0:02:24	80	(0.00, -0.01, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#13	72071	0:02:22	80	(0.00, 0.01, 0.00, 0.00, -0.01)			
ACO	Rosenbrock	5	0	#14	72622	0:02:24	80	(0.00, 0.00, 0.00, 0.00, 0.00)			
ACO	Rosenbrock	5	0	#15	71114	0:02:24	80	(0.00, 0.00, 0.00, 0.00, -0.01)			
ACO	Rosenbrock	5	1	#1	98406	0:05:51	82.89	(-1.59, -2.09, -0.48, 1.74, 0.66)	82.961	0.288	38.377
ACO	Rosenbrock	5	1	#2	98461	0:05:59	83.66	(2.88, 0.75, -1.57, 2.90, 2.34)			
ACO	Rosenbrock	5	1	#3	98101	0:05:53	82.71	(-3.78, -2.92, -1.91, 3.02, 2.50)			
ACO	Rosenbrock	5	1	#4	97925	0:05:54	82.57	(-3.65, -0.50, -1.40, 0.88, 0.90)			
ACO	Rosenbrock	5	1	#5	98053	0:06:04	83.06	(0.53, 4.50, -0.13, 2.68, -1.56)			
ACO	Rosenbrock	5	1	#6	98229	0:05:48	82.88	(1.29, 0.19, 0.35, 2.69, 1.22)			
ACO	Rosenbrock	5	1	#7	98158	0:05:40	83.28	(0.76, -0.51, 0.48, -0.23, -1.09)			
ACO	Rosenbrock	5	1	#8	98204	0:05:40	83.08	(-1.27, -2.02, -0.21, 3.38, -2.90)			
ACO	Rosenbrock	5	1	#9	98159	0:05:57	82.63	(-2.13, -4.41, -1.05, -0.35, 3.85)			
ACO	Rosenbrock	5	1	#10	98028	0:06:03	83.09	(-1.96, -4.39, -1.08, -1.73, 1.10)			
ACO	Rosenbrock	5	1	#11	98262	0:05:41	82.92	(-0.83, -5.24, -1.39, 2.08, -0.90)			
ACO	Rosenbrock	5	1	#12	98372	0:05:52	83	(3.56, 0.85, -0.85, 2.35, 2.68)			
ACO	Rosenbrock	5	1	#13	98023	0:05:54	82.7	(-3.60, -7.15, -0.20, 2.35, 1.57)			
ACO	Rosenbrock	5	1	#14	97879	0:05:43	83.23	(3.02, -1.29, 0.40, 0.59, 1.19)			
ACO	Rosenbrock	5	1	#15	98059	0:05:43	82.73	(-2.32, -2.22, -0.48, 2.92, 1.97)			
ACO	Rosenbrock	5	2	#1	97906	0:05:50	85.73	(0.97, -6.03, 1.42, -4.11, -1.50)	85.950	0.661	38.684
ACO	Rosenbrock	5	2	#2	97761	0:05:53	85.1	(-2.00, 4.81, 1.02, 2.09, -2.82)			
ACO	Rosenbrock	5	2	#3	97984	0:05:32	86.63	(1.04, 0.96, 1.39, 0.87, 0.82)			
ACO	Rosenbrock	5	2	#4	97823	0:05:31	85.95	(1.81, -2.66, -0.30, 3.97, 1.62)			
ACO	Rosenbrock	5	2	#5	97688	0:05:37	85.76	(-2.31, 4.47, -0.05, 2.60, 1.84)			
ACO	Rosenbrock	5	2	#6	97584	0:05:39	85.98	(-2.89, -10.24, -0.23, 5.59, 3.10)			
ACO	Rosenbrock	5	2	#7	97657	0:05:29	85.25	(0.05, -0.37, 0.31, 2.63, 3.89)			
ACO	Rosenbrock	5	2	#8	98048	0:05:36	85.87	(0.56, -5.87, 0.61, -0.19, 3.58)			
ACO	Rosenbrock	5	2	#9	97907	0:05:48	86.7	(-3.39, 5.24, -1.36, 1.23, -0.58)			
ACO	Rosenbrock	5	2	#10	97882	0:05:52	85.34	(-0.83, -2.82, -1.34, 0.79, 2.54)			
ACO	Rosenbrock	5	2	#11	97569	0:05:46	85.64	(-3.48, -1.19, 0.18, 1.55, 5.53)			
ACO	Rosenbrock	5	2	#12	97820	0:05:51	85.72	(1.66, 4.29, -2.42, -0.75, -0.68)			
ACO	Rosenbrock	5	2	#13	97813	0:05:47	86.16	(-1.08, 2.08, 0.20, -3.63, 5.43)			
ACO	Rosenbrock	5	2	#14	97818	0:05:45	85.71	(1.81, -0.54, -0.76, 2.33, 2.73)			
ACO	Rosenbrock	5	2	#15	97599	0:05:40	87.72	(-0.33, 1.80, -1.45, 1.18, 4.54)			
ACO	Rosenbrock	5	3	#1	97666	0:05:44	88.9	(1.54, 4.65, -1.31, 2.55, 0.97)	89.049	1.264	38.990
ACO	Rosenbrock	5	3	#2	98033	0:05:57	88.15	(4.06, -6.35, 0.26, 3.36, -3.45)			
ACO	Rosenbrock	5	3	#3	97794	0:05:33	87.15	(-0.20, -4.94, -0.15, 0.09, -4.74)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Rosenbrock	5	3	#4	97970	0:05:49	88.37	(-0.48, 0.16, -1.56, 3.22, 1.28)			
ACO	Rosenbrock	5	3	#5	97450	0:05:59	89.9	(2.26, 3.91, 1.61, -3.56, 0.40)			
ACO	Rosenbrock	5	3	#6	97795	0:05:41	87.57	(3.94, -11.19, -0.60, -2.34, 0.72)			
ACO	Rosenbrock	5	3	#7	97869	0:05:42	87.47	(3.31, -0.33, -1.51, 2.10, 10.04)			
ACO	Rosenbrock	5	3	#8	97784	0:05:48	91.02	(3.71, 6.32, -2.32, 9.08, 2.03)			
ACO	Rosenbrock	5	3	#9	97638	0:05:34	89.71	(-5.49, -11.15, -2.27, 4.09, -5.10)			
ACO	Rosenbrock	5	3	#10	97975	0:06:02	89.88	(1.88, -1.84, -0.92, -3.74, 0.06)			
ACO	Rosenbrock	5	3	#11	97479	0:05:27	88.1	(-0.89, 1.51, -1.59, 3.10, -5.96)			
ACO	Rosenbrock	5	3	#12	97506	0:05:50	90.66	(-3.97, -5.30, -0.87, 1.61, 2.39)			
ACO	Rosenbrock	5	3	#13	97704	0:05:42	90.09	(4.09, -11.74, 0.17, 2.21, 2.11)			
ACO	Rosenbrock	5	3	#14	97734	0:05:53	90.44	(1.44, -1.75, 0.22, 2.18, -1.64)			
ACO	Rosenbrock	5	3	#15	97644	0:05:36	88.34	(-1.90, -0.65, 0.31, -1.34, 7.45)			
ACO	Styblinski	5	0	#1	71088	0:02:07	392.5	(-2.90, -2.90, -2.91, 0.99, 0.97)	386.181	7.056	51.732
ACO	Styblinski	5	0	#2	71911	0:02:07	378.4	(-2.90, 2.75, -2.91, 1.00, 0.99)			
ACO	Styblinski	5	0	#3	73980	0:02:01	378.4	(-2.90, -2.91, 2.74, 0.98, 0.99)			
ACO	Styblinski	5	0	#4	73297	0:02:10	392.5	(-2.90, -2.91, -2.91, 1.00, 1.00)			
ACO	Styblinski	5	0	#5	72166	0:01:58	382.7	(-2.88, -2.91, -3.01, 4.10, 0.96)			
ACO	Styblinski	5	0	#6	70406	0:02:07	378.4	(-2.91, 2.74, -2.90, 0.99, 1.00)			
ACO	Styblinski	5	0	#7	71484	0:02:08	378.4	(2.74, -2.90, -2.91, 1.00, 0.98)			
ACO	Styblinski	5	0	#8	71163	0:02:01	392.5	(-2.91, -2.91, -2.91, 0.91, 0.97)			
ACO	Styblinski	5	0	#9	70306	0:02:13	378.4	(-2.91, -2.90, 2.74, 1.01, 1.01)			
ACO	Styblinski	5	0	#10	70874	0:02:19	392.5	(-2.91, -2.91, -2.90, 0.99, 1.00)			
ACO	Styblinski	5	0	#11	72152	0:02:00	392.4	(-2.91, -2.91, -2.90, 1.10, 0.72)			
ACO	Styblinski	5	0	#12	70404	0:02:06	392.5	(-2.91, -2.91, -2.91, 1.01, 1.00)			
ACO	Styblinski	5	0	#13	70600	0:02:09	378.4	(-2.91, -2.90, 2.74, 1.00, 0.99)			
ACO	Styblinski	5	0	#14	70079	0:02:10	392.5	(-2.91, -2.91, -2.91, 1.05, 0.95)			
ACO	Styblinski	5	0	#15	69989	0:02:08	392.5	(-2.90, -2.91, -2.91, 1.03, 1.02)			
ACO	Styblinski	5	1	#1	88741	0:05:01	380.2	(2.77, -2.86, -2.99, 0.78, 0.58)	390.157	6.885	51.822
ACO	Styblinski	5	1	#2	87358	0:05:08	393.8	(-2.81, -2.86, -2.98, 0.08, 1.39)			
ACO	Styblinski	5	1	#3	88802	0:04:54	395.6	(-2.93, -2.94, -2.94, 0.99, 0.75)			
ACO	Styblinski	5	1	#4	87995	0:04:58	381.2	(-2.83, -2.85, 2.70, 0.84, 0.98)			
ACO	Styblinski	5	1	#5	88059	0:05:02	381.1	(-2.93, -2.88, 2.77, 0.83, 0.92)			
ACO	Styblinski	5	1	#6	88594	0:05:08	395.1	(-2.87, -2.90, -2.91, 1.02, 1.03)			
ACO	Styblinski	5	1	#7	87935	0:04:42	393.8	(-2.93, -2.78, -2.87, 1.44, 0.19)			
ACO	Styblinski	5	1	#8	88319	0:05:06	395.4	(-2.92, -2.90, -2.88, 1.32, 1.15)			
ACO	Styblinski	5	1	#9	87589	0:05:10	394.1	(-2.89, -2.78, -2.92, 1.36, 2.10)			
ACO	Styblinski	5	1	#10	87742	0:05:09	395.1	(-2.78, -2.90, -3.04, 0.19, 0.73)			
ACO	Styblinski	5	1	#11	87784	0:05:06	394.7	(-2.83, -2.93, -2.82, 1.53, 1.03)			
ACO	Styblinski	5	1	#12	87906	0:04:51	394.9	(-2.89, -2.93, -2.94, 1.47, 0.79)			
ACO	Styblinski	5	1	#13	88107	0:05:06	380.3	(-2.91, 2.74, -2.83, 0.93, 1.73)			
ACO	Styblinski	5	1	#14	88099	0:05:00	395.9	(-3.10, -2.84, -2.89, 1.12, 1.24)			
ACO	Styblinski	5	1	#15	87865	0:05:13	381.1	(2.63, -2.84, -3.00, 0.74, 1.33)			
ACO	Styblinski	5	2	#1	89924	0:05:26	397.9	(-2.80, -2.92, -2.96, 0.12, 0.71)	395.008	5.033	51.930
ACO	Styblinski	5	2	#2	90681	0:05:00	396.3	(-2.76, -2.81, -2.94, 0.72, -0.26)			
ACO	Styblinski	5	2	#3	90488	0:05:13	383.7	(2.65, -2.63, -2.87, 0.82, 0.42)			
ACO	Styblinski	5	2	#4	90241	0:05:19	396	(-2.80, -2.98, -2.95, 0.17, 2.54)			
ACO	Styblinski	5	2	#5	89859	0:05:25	397.3	(-2.82, -2.92, -2.77, 0.12, 1.06)			
ACO	Styblinski	5	2	#6	90257	0:05:17	383.1	(-2.73, -2.89, 2.77, 0.48, 1.78)			

Heuristic	Model	Var	Stddev	Rep	Count	Time	Response	CoOrdinate	Mean	SD	S/N ratio
ACO	Styblinski	5	2	#7	90127	0:05:09	397.2	(-2.90, -2.79, -2.85, 1.46, 1.06)			
ACO	Styblinski	5	2	#8	90272	0:04:59	396.6	(-2.75, -3.08, -3.03, 1.16, 0.73)			
ACO	Styblinski	5	2	#9	90332	0:05:12	390.9	(-2.83, -2.93, -2.95, 1.43, -1.45)			
ACO	Styblinski	5	2	#10	90280	0:05:09	398.9	(-2.95, -2.98, -2.95, 1.04, 1.51)			
ACO	Styblinski	5	2	#11	89932	0:05:24	398	(-2.85, -2.96, -2.92, 0.30, 0.36)			
ACO	Styblinski	5	2	#12	89906	0:04:59	397.7	(-2.84, -3.13, -2.80, 0.73, -0.25)			
ACO	Styblinski	5	2	#13	90072	0:04:59	396.6	(-2.87, -2.86, -2.92, 1.18, 0.56)			
ACO	Styblinski	5	2	#14	89768	0:05:16	397.3	(-2.93, -2.78, -3.01, 0.03, 0.22)			
ACO	Styblinski	5	2	#15	90282	0:05:05	397.6	(-2.87, -2.91, -2.96, 0.76, 2.21)			
ACO	Styblinski	5	3	#1	90914	0:05:19	386.2	(2.90, -2.95, -2.89, 0.52, 1.43)	398.934	4.071	52.017
ACO	Styblinski	5	3	#2	91058	0:05:26	398.8	(-2.85, -2.65, -2.57, 0.86, 2.28)			
ACO	Styblinski	5	3	#3	91115	0:05:17	401.4	(-2.91, -3.02, -2.80, 0.63, 1.45)			
ACO	Styblinski	5	3	#4	91272	0:05:08	401.3	(-2.91, -2.89, -2.87, 1.85, 1.26)			
ACO	Styblinski	5	3	#5	91006	0:05:08	400.1	(-2.94, -2.83, -2.89, 1.30, 0.73)			
ACO	Styblinski	5	3	#6	91167	0:05:22	399	(-2.98, -2.90, -2.64, -0.53, 1.78)			
ACO	Styblinski	5	3	#7	90969	0:05:10	400.9	(-2.71, -2.70, -2.88, 1.73, 1.19)			
ACO	Styblinski	5	3	#8	90766	0:05:16	400.1	(-2.93, -2.95, -2.85, 0.58, 0.50)			
ACO	Styblinski	5	3	#9	91059	0:05:24	400.9	(-2.73, -2.78, -2.86, 0.42, 1.78)			
ACO	Styblinski	5	3	#10	91141	0:05:22	400.1	(-2.89, -2.84, -2.81, 1.19, -0.12)			
ACO	Styblinski	5	3	#11	90759	0:05:08	397.7	(-2.58, -3.02, -3.04, 0.86, 2.30)			
ACO	Styblinski	5	3	#12	91026	0:05:29	398.4	(-2.68, -2.96, -3.06, 1.47, 0.35)			
ACO	Styblinski	5	3	#13	90648	0:04:57	398.8	(-2.86, -3.00, -3.03, 0.62, 0.04)			
ACO	Styblinski	5	3	#14	91122	0:05:06	395.6	(-2.93, -2.84, -2.71, 1.50, -0.69)			
ACO	Styblinski	5	3	#15	91043	0:05:15	404.6	(-2.98, -2.74, -2.84, 0.29, 1.42)			

ตารางที่ 4. แสดงผลการทดสอบปัญหาในอุตสาหกรรมด้วยวิธีฝูงมด

Model	Rep	Count	Time	Response	CoOrdinate	S/N ratio
Hati & Rao	#1	14555	0:00:16	79.19237	(150.312428, 0.324301, 2.749700)	37.98292852
Hati & Rao	#2	14531	0:00:15	79.1469	(151.459827, 0.324878, 2.749996)	
Hati & Rao	#3	14522	0:00:14	79.36414	(147.949826, 0.322802, 2.749788)	
Hati & Rao	#4	14536	0:00:16	79.27897	(150.480472, 0.337315, 2.660501)	
Hati & Rao	#5	14513	0:00:13	79.2647	(151.867809, 0.323973, 2.749847)	
Hati & Rao	#6	14534	0:00:16	79.14854	(151.257993, 0.324894, 2.749458)	
Hati & Rao	#7	14535	0:00:16	79.14479	(151.600015, 0.325946, 2.743263)	
Hati & Rao	#8	14538	0:00:15	79.25231	(150.683580, 0.335204, 2.675581)	
Hati & Rao	#9	14525	0:00:15	79.53095	(148.206667, 0.359840, 2.511111)	
Hati & Rao	#10	14555	0:00:16	79.17812	(150.639039, 0.324858, 2.747117)	
Hati & Rao	#11	14524	0:00:15	79.13863	(151.644210, 0.325007, 2.749954)	
Hati & Rao	#12	14541	0:00:14	79.5948	(145.687490, 0.321427, 2.749612)	
Hati & Rao	#13	14536	0:00:14	79.29658	(149.613734, 0.334375, 2.676871)	
Hati & Rao	#14	14521	0:00:14	79.13462	(151.646742, 0.325041, 2.749965)	
Hati & Rao	#15	14508	0:00:18	79.49233	(148.619889, 0.356824, 2.530535)	
Ermer	#1	7200	0:00:10	6.29	(145.884400, 0.001411)	15.97336476
Ermer	#2	7200	0:00:10	6.308	(147.744000, 0.001390)	
Ermer	#3	7200	0:00:09	6.285	(146.090900, 0.001411)	
Ermer	#4	7200	0:00:09	6.341	(152.191200, 0.001342)	
Ermer	#5	7200	0:00:10	6.279	(144.704800, 0.001426)	

Model	Rep	Count	Time	Response	CoOrdinate	S/N ratio
Ermer	#6	7200	0:00:10	6.308	(146.219200, 0.001404)	
Ermer	#7	7200	0:00:09	6.269	(145.504400, 0.001420)	
Ermer	#8	7200	0:00:10	6.276	(143.712800, 0.001436)	
Ermer	#9	7200	0:00:09	6.386	(158.485500, 0.001280)	
Ermer	#10	7200	0:00:10	6.273	(146.169500, 0.001413)	
Ermer	#11	7200	0:00:09	6.266	(143.939400, 0.001436)	
Ermer	#12	7200	0:00:08	6.268	(145.056400, 0.001425)	
Ermer	#13	7200	0:00:10	6.264	(144.733400, 0.001429)	
Ermer	#14	7200	0:00:09	6.27	(144.290600, 0.001432)	
Ermer	#15	7200	0:00:10	6.274	(146.034300, 0.001414)	
Ermer & Kromodihardjo	#1	7200	0:00:12	1.553	(434.935700, 0.003825)	3.823429115
Ermer & Kromodihardjo	#2	7200	0:00:11	1.553	(433.978400, 0.003814)	
Ermer & Kromodihardjo	#3	7200	0:00:12	1.553	(435.411000, 0.003831)	
Ermer & Kromodihardjo	#4	7200	0:00:12	1.553	(432.448900, 0.003793)	
Ermer & Kromodihardjo	#5	7200	0:00:11	1.553	(433.699100, 0.003809)	
Ermer & Kromodihardjo	#6	7200	0:00:12	1.553	(432.825700, 0.003798)	
Ermer & Kromodihardjo	#7	7200	0:00:12	1.553	(434.033600, 0.003814)	
Ermer & Kromodihardjo	#8	7200	0:00:11	1.553	(435.634400, 0.003836)	
Ermer & Kromodihardjo	#9	7200	0:00:12	1.553	(432.161300, 0.003789)	
Ermer & Kromodihardjo	#10	7200	0:00:11	1.553	(434.302700, 0.003818)	
Ermer & Kromodihardjo	#11	7200	0:00:12	1.553	(431.914900, 0.003786)	
Ermer & Kromodihardjo	#12	7200	0:00:11	1.553	(434.418000, 0.003819)	
Ermer & Kromodihardjo	#13	7200	0:00:12	1.553	(431.256100, 0.003776)	
Ermer & Kromodihardjo	#14	7200	0:00:12	1.553	(435.798300, 0.003838)	
Ermer & Kromodihardjo	#15	7200	0:00:11	1.553	(431.668900, 0.003782)	
Iwata Oba and Murotsu	#1	14945	0:00:12	122.605	(373.000992, 0.410517, 1.176048)	41.76649584
Iwata Oba and Murotsu	#2	14927	0:00:13	122.487	(387.015446, 0.410530, 1.137903)	
Iwata Oba and Murotsu	#3	14996	0:00:12	122.51	(386.416303, 0.410521, 1.137629)	
Iwata Oba and Murotsu	#4	14963	0:00:12	122.586	(385.539105, 0.410531, 1.133755)	
Iwata Oba and Murotsu	#5	14944	0:00:11	122.589	(374.100422, 0.410517, 1.172505)	
Iwata Oba and Murotsu	#6	14929	0:00:12	122.623	(373.297232, 0.410524, 1.172970)	
Iwata Oba and Murotsu	#7	14984	0:00:12	122.575	(395.306299, 0.410516, 1.116164)	
Iwata Oba and Murotsu	#8	14962	0:00:12	122.486	(384.968325, 0.410495, 1.143407)	
Iwata Oba and Murotsu	#9	14954	0:00:11	122.611	(378.487460, 0.410510, 1.153080)	
Iwata Oba and Murotsu	#10	14945	0:00:12	122.498	(381.869384, 0.410469, 1.151545)	
Iwata Oba and Murotsu	#11	14982	0:00:12	122.505	(380.108554, 0.410529, 1.156334)	
Iwata Oba and Murotsu	#12	14923	0:00:12	122.559	(383.174716, 0.410464, 1.142658)	

Model	Rep	Count	Time	Response	CoOrdinate	S/N ratio
Iwata Oba and Murotsu	#13	14933	0:00:11	122.605	(396.936833, 0.410535, 1.111946)	
Iwata Oba and Murotsu	#14	14925	0:00:13	122.505	(390.039807, 0.410519, 1.129954)	
Iwata Oba and Murotsu	#15	15005	0:00:11	122.555	(376.572752, 0.410516, 1.165191)	
Spring force problem	#1	1970073	0:11:46	3320.962	(100.0004, 74.9897, 14.9495, 21.8514, 49.9635)	69.99228907
Spring force problem	#2	1968368	0:11:47	2869.093	(100.0135, 70.1185, 14.9752, 20.0011, 43.1448)	
Spring force problem	#3	1968836	0:11:43	3368.711	(100.0000, 74.7975, 14.9785, 20.0930, 49.9617)	
Spring force problem	#4	1968803	0:11:46	3084.644	(100.0003, 70.1099, 14.9469, 25.7890, 49.9891)	
Spring force problem	#5	1969697	0:11:42	3207.393	(100.0113, 72.1328, 14.9990, 23.2361, 49.8233)	
Spring force problem	#6	1967592	0:11:30	3199.877	(100.0169, 68.4646, 14.9996, 20.0003, 49.9052)	
Spring force problem	#7	1967196	0:11:39	3062.565	(100.1863, 71.5341, 14.7847, 26.3176, 49.9410)	
Spring force problem	#8	1967963	0:11:47	3116.526	(100.1338, 71.0522, 14.8651, 20.4008, 47.9245)	
Spring force problem	#9	1968658	0:12:05	3249.361	(100.0060, 74.9506, 14.9997, 24.7405, 49.9317)	
Spring force problem	#10	1969168	0:11:44	3279.534	(100.0217, 74.9999, 14.9820, 23.6242, 49.9924)	
Spring force problem	#11	1970003	0:11:55	3092.669	(100.3821, 74.9885, 14.9990, 25.0151, 47.7296)	
Spring force problem	#12	1967524	0:11:55	3201.16	(101.9917, 74.9053, 14.9871, 20.1793, 49.8093)	
Spring force problem	#13	1967532	0:11:41	3234.407	(100.0595, 74.9099, 14.9999, 25.1992, 49.9833)	
Spring force problem	#14	1969258	0:11:33	3153.763	(100.0274, 74.8994, 14.9990, 27.9277, 49.8166)	
Spring force problem	#15	1968925	0:12:07	3057.796	(101.7032, 74.9962, 14.9998, 23.0119, 47.9586)	

ตารางที่ 5. แสดงผลการทดสอบปัญหาในอุตสาหกรรมด้วยวิธีผสมผสาน

Model	Rep	Count	Time	Response	CoOrdinate	S/N ratio
Hati & Rao	#1	6000	0:03:41	79.500	(149.724300, 0.338342, 2.640612)	38.00089447
Hati & Rao	#2	6000	0:03:47	79.312	(149.292700, 0.332069, 2.690579)	
Hati & Rao	#3	6000	0:03:39	79.514	(149.236000, 0.346405, 2.590309)	
Hati & Rao	#4	6000	0:03:43	79.528	(147.007500, 0.332506, 2.675752)	
Hati & Rao	#5	6000	0:03:45	79.364	(150.896200, 0.327642, 2.718162)	
Hati & Rao	#6	6000	0:03:41	79.472	(149.095400, 0.333269, 2.673634)	
Hati & Rao	#7	6000	0:03:41	79.300	(149.636400, 0.324124, 2.744204)	
Hati & Rao	#8	6000	0:03:43	79.579	(147.638400, 0.330952, 2.682732)	
Hati & Rao	#9	6000	0:03:43	79.289	(151.724300, 0.324887, 2.742087)	
Hati & Rao	#10	6000	0:03:45	79.215	(150.607100, 0.327878, 2.724805)	
Hati & Rao	#11	6000	0:03:42	79.438	(149.091400, 0.346523, 2.593630)	
Hati & Rao	#12	6000	0:03:41	79.445	(149.925500, 0.323888, 2.737561)	
Hati & Rao	#13	6000	0:03:39	79.512	(151.671600, 0.325969, 2.721821)	
Hati & Rao	#14	6000	0:03:38	79.537	(148.749600, 0.347842, 2.580007)	
Hati & Rao	#15	6000	0:03:48	79.613	(148.894200, 0.347723, 2.576686)	
Ermer	#1	6000	0:00:45	6.302	(145.653900, 0.001411)	15.99517151
Ermer	#2	6000	0:00:44	6.329	(153.331500, 0.001335)	
Ermer	#3	6000	0:00:46	6.281	(144.384400, 0.001428)	
Ermer	#4	6000	0:00:45	6.294	(145.091400, 0.001418)	
Ermer	#5	6000	0:00:45	6.302	(145.999600, 0.001408)	
Ermer	#6	6000	0:00:45	6.305	(150.622600, 0.001364)	
Ermer	#7	6000	0:00:45	6.307	(150.349200, 0.001366)	
Ermer	#8	6000	0:00:45	6.329	(153.331500, 0.001335)	
Ermer	#9	6000	0:00:44	6.304	(144.343400, 0.001423)	
Ermer	#10	6000	0:00:46	6.310	(149.456600, 0.001374)	

Model	Rep	Count	Time	Response	CoOrdinate	S/N ratio
Ermer	#11	6000	0:00:44	6.320	(143.394200, 0.001429)	
Ermer	#12	6000	0:00:45	6.303	(149.931200, 0.001371)	
Ermer	#13	6000	0:00:44	6.328	(150.235900, 0.001362)	
Ermer	#14	6000	0:00:44	6.309	(144.142200, 0.001424)	
Ermer	#15	6000	0:00:46	6.268	(144.714500, 0.001428)	
Ermer & Kromodihardjo	#1	6000	0:00:17	1.557	(429.461100, 0.003733)	3.836004839
Ermer & Kromodihardjo	#2	6000	0:00:17	1.555	(425.201100, 0.003696)	
Ermer & Kromodihardjo	#3	6000	0:00:18	1.557	(439.119700, 0.003861)	
Ermer & Kromodihardjo	#4	6000	0:00:17	1.557	(425.655400, 0.003690)	
Ermer & Kromodihardjo	#5	6000	0:00:17	1.553	(437.296600, 0.003856)	
Ermer & Kromodihardjo	#6	6000	0:00:18	1.554	(436.001400, 0.003837)	
Ermer & Kromodihardjo	#7	6000	0:00:17	1.557	(426.327500, 0.003697)	
Ermer & Kromodihardjo	#8	6000	0:00:17	1.554	(433.880600, 0.003803)	
Ermer & Kromodihardjo	#9	6000	0:00:18	1.554	(439.530900, 0.003888)	
Ermer & Kromodihardjo	#10	6000	0:00:17	1.558	(432.036100, 0.003761)	
Ermer & Kromodihardjo	#11	6000	0:00:17	1.556	(430.667300, 0.003751)	
Ermer & Kromodihardjo	#12	6000	0:00:18	1.553	(437.385600, 0.003858)	
Ermer & Kromodihardjo	#13	6000	0:00:17	1.557	(429.461100, 0.003733)	
Ermer & Kromodihardjo	#14	6000	0:00:17	1.553	(436.065900, 0.003842)	
Ermer & Kromodihardjo	#15	6000	0:00:17	1.553	(432.155800, 0.003786)	
Iwata Oba and Murotsu	#1	6000	0:01:43	123.082	(380.053059, 0.409656, 1.114997)	41.86873553
Iwata Oba and Murotsu	#2	6000	0:01:45	123.525	(387.752207, 0.399812, 1.121271)	
Iwata Oba and Murotsu	#3	6000	0:01:44	125.109	(389.538736, 0.380469, 1.130277)	
Iwata Oba and Murotsu	#4	6000	0:01:43	124.089	(378.305285, 0.390061, 1.188725)	
Iwata Oba and Murotsu	#5	6000	0:01:44	122.730	(385.705733, 0.407155, 1.142700)	
Iwata Oba and Murotsu	#6	6000	0:01:44	125.636	(435.805462, 0.385814, 1.028603)	
Iwata Oba and Murotsu	#7	6000	0:01:44	123.915	(380.202409, 0.396187, 1.141146)	
Iwata Oba and Murotsu	#8	6000	0:01:41	124.036	(404.898276, 0.399719, 1.060091)	
Iwata Oba and Murotsu	#9	6000	0:01:44	124.248	(381.020998, 0.393250, 1.132575)	
Iwata Oba and Murotsu	#10	6000	0:01:44	123.786	(403.001152, 0.393594, 1.107670)	
Iwata Oba and Murotsu	#11	6000	0:01:41	124.387	(426.469135, 0.401532, 1.039472)	
Iwata Oba and Murotsu	#12	6000	0:01:43	123.082	(380.053059, 0.409656, 1.114997)	
Iwata Oba and Murotsu	#13	6000	0:01:45	124.220	(426.059840, 0.403001, 1.043758)	
Iwata Oba and Murotsu	#14	6000	0:01:46	124.023	(367.259882, 0.407062, 1.102883)	
Iwata Oba and Murotsu	#15	6000	0:01:41	124.285	(374.549735, 0.398687, 1.113443)	
Spring force problem	#1	7016	0:00:22	2726.103	(100.4825, 74.8004, 13.5565, 26.8553, 46.6550)	68.28116107

Model	Rep	Count	Time	Response	CoOrdinate	S/N ratio
Spring force problem	#2	8165	0:00:23	2675.425	(101.2432, 69.9630, 13.7068, 23.0528, 46.6673)	
Spring force problem	#3	7008	0:00:23	2702.722	(100.3910, 69.5177, 14.0835, 30.5279, 48.7145)	
Spring force problem	#4	6750	0:00:22	2799.589	(101.8026, 68.4574, 14.7108, 20.7674, 46.2141)	
Spring force problem	#5	6830	0:00:23	2689.623	(102.4986, 65.7191, 14.2853, 20.6601, 47.6845)	
Spring force problem	#6	7596	0:00:23	2372.605	(100.4575, 72.3257, 14.1717, 30.6110, 40.7888)	
Spring force problem	#7	7911	0:00:23	2569.828	(102.3155, 72.2438, 14.7043, 29.0765, 44.6648)	
Spring force problem	#8	6798	0:00:22	2578.745	(101.2249, 74.0335, 12.6217, 30.1087, 49.9376)	
Spring force problem	#9	7827	0:00:23	2390.311	(100.0384, 64.4680, 13.9297, 20.5062, 40.2261)	
Spring force problem	#10	7575	0:00:23	2501.574	(100.7392, 73.1947, 13.1763, 37.0369, 49.4459)	
Spring force problem	#11	7809	0:00:23	2735.166	(100.6580, 69.7447, 14.0676, 23.6557, 46.2746)	
Spring force problem	#12	6903	0:00:22	2926.799	(103.2628, 73.6866, 14.5994, 23.1015, 49.7624)	
Spring force problem	#13	7410	0:00:23	2432.085	(100.3611, 69.2501, 14.5186, 24.5026, 39.3879)	
Spring force problem	#14	7495	0:00:23	2531.297	(101.9856, 69.1961, 12.7719, 26.3062, 49.9499)	
Spring force problem	#15	7803	0:00:23	2440.823	(103.0597, 69.1206, 14.8018, 22.1529, 40.7637)	