Table 1: Simple exponential runs from Section 5.1.

Run	m_9 ($M_\oplus$)	$a_{9,f}$ (AU)	$e_{9,i}$	$i_{9,i}$ (°)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
1	5	516.3	0.3	15	1.62	4.705	84.35	Stable
2	5	578.8	0.4	15	4.97	5.155	90.28	Stable
3	5	367.6	0.5	15	5.36	5.905	95.71	Significantly Unstable
4	5	675.2	0.6	15	8.56	5.755	96.96	Stable
5	7	593.2	0.3	15	4.03	4.505	79.77	Stable
6	7	575.3	0.4	15	4.98	3.805	123.66	Significantly Unstable
7	7	593.4	0.5	15	5.45	4.605	100.89	Significantly Unstable
8	7	643.5	0.6	15	11.97	5.705	101.56	Stable
9	10	689	0.3	15	4.44	4.055	101.64	Ejection
10	10	449.3	0.4	15	2.05	5.455	87.76	Slightly Unstable
11	10	Ejection	0.5	15	N/A	N/A	N/A	Ejection
12	10	Ejection	0.6	15	4.07	4.905	102.54	Ejection
13	5	538.9	0.3	20	2.73	4.055	75.21	Stable
14	5	463.1	0.3	25	6.42	5.905	91.6	Stable
15	5	498.3	0.3	30	15.53	5.405	105.76	Slightly Unstable
16	5	496.6	0.4	20	4.53	5.805	98.39	Stable
17	5	538.1	0.4	25		4.705	86.39	Ejection
18	5	490	0.4	30	9.44	5.455	97.14	Stable
19	5	Ejection	0.5	20	N/A	N/A	N/A	Ejection
20	5	503.5	0.5	25	7.27	4.805	88.93	Stable
21	5	385.3	0.5	30	5.34	4.655	100.86	Significantly Unstable
22	5	409.5	0.6	20	14.93	5.155	105.59	Slightly Unstable
23	5	474.9	0.6	25	10.24	4.805	95.15	Significantly Unstable
24	5	441	0.6	30	6.71	4.355	82.19	Stable
25	7	580.2	0.3	20	7.99	5.755	99.12	Significantly Unstable
26	7	494.5	0.3	25	1.51	4.055	74.36	Slightly Unstable
27	7	497	0.3	30	2.63	5.155	100.24	Significantly Unstable
28	7	436.1	0.4	20	3.14	3.655	72.36	Stable
29	7	500	0.4	25	9.72	5.755	103.32	Stable
30	7	176.5	0.4	30	8.97	5.805	101.96	Significantly Unstable
31	7	607.3	0.5	20	10.72	4.205	112.66	Significantly Unstable
32	7	Ejection	0.5	25	N/A	0.105	106.46	Ejection
33	7	572.9	0.5	30	2.68	4.705	75.93	Stable
34	7	369.6	0.6	20	11.2	2.855	105.24	Significantly Unstable
35	7	1413	0.6	25	4.5	5.405	79.76	Significantly Unstable
36	7	1247	0.6	30	N/A	N/A	N/A	Ejection
37	10	464.4	0.3	20	8.69	5.155	89.85	Stable
38	10	371.5	0.3	25	5.8	5.955	87.28	Significantly Unstable
39	10	487.3	0.3	30	8.8	5.555	96.5	Stable
40	10	Ejection	0.4	20	N/A	N/A	N/A	Ejection
41	10	517.9	0.4	25	18.08	5.405	106.79	Significantly Unstable
42	10	445.3	0.4	30	2.34	4.555	79.57	Stable
43	10	445.4	0.5	20	5.66	5.305	103.46	Stable
44	10	264.7	0.5	25	N/A	N/A	N/A	Ejection
45	10	408	0.5	30	6.82	5.955	92.9	Significantly Unstable
46	10	833.7	0.6	20	10.62	3.155	115.34	Significantly Unstable
47	10	597.2	0.6	25	26.74	4.055	114.3	Significantly Unstable
48	10	270.1	0.6	30	37.71	5.755	134.16	Significantly Unstable

Table 2: Runs using Brown & Batygin (2021) parameters from Section 5.3

Run	m_9 ($M_\oplus$)	$a_{9,f}$ (AU)	$e_{9,f}$	$i_{9,i}$ (°)	$i_{9,f}$	$i_{9,f}$ (°)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
1	4.9	486.8	0.2	0.15	11	3.8	4.97	3.882	77.38	Stable
2	4.9	473	0.25	0.2	11	9.61	2.4	4.487	75.05	Stable
3	4.9	494.9	0.3	0.29	11	6.49	6.89	5.496	85.31	Stable
4	4.9	703.8	0.35	0.56	11	3.16	0.38	3.882	54.9	Stable
5	4.9	432.5	0.4	0.1	11	5.76	6.35	5.546	88.75	Stable
6	4.9	460.8	0.2	0.12	13	9.5	4.47	4.487	81.19	Stable
7	4.9	508.7	0.25	0.28	13	10.72	1.5	3.63	58.25	Stable
8	4.9	549.7	0.3	0.45	13	7.26	4.63	4.689	78.74	Slightly Unstable
9	4.9	641.2	0.35	0.5	13	5.77	2.82	3.983	63.32	Stable
10	4.9	354.8	0.4	0.2	13	13.22	0.34	6	87.26	Significantly Unstable
11	4.9	474.7	0.2	0.14	16	9.03	2.13	4.487	75.04	Stable
12	4.9	527.3	0.25	0.3	16	11.76	2.84	4.689	80.69	Stable
13	4.9	434.9	0.3	0.23	16	12.98	3.57	4.286	75.05	Stable
14	4.9	721.3	0.35	0.54	16	7.27	6.14	5.647	92.14	Stable
15	4.9	661.5	0.4	0.48	16	9.17	9.33	5.244	105.7	Significantly Unstable
16	4.9	464.8	0.2	0.17	18	14.06	0.69	0.857	48.86	Stable
17	4.9	493	0.25	0.24	18	11.34	0.85	4.437	74.05	Stable
18	4.9	486.8	0.3	0.26	18	12	4.9	4.134	76.73	Stable
19	4.9	553.3	0.35	0.4	18	14.06	2.2	4.79	76.79	Stable
20	4.9	495.8	0.4	0.41	18	5.04	18.35	4.286	110.63	Significantly Unstable
21	4.9	472.3	0.2	0.17	21	14.3	4.88	4.387	82.32	Stable
22	4.9	488.1	0.25	0.2	21	13.86	6.18	4.689	85.31	Stable
23	4.9	368.5	0.3	0.15	21	7.59	2.5	3.328	57.09	Stable
24	4.9	857.2	0.35	0.63	21	14.06	2.8	3.983	66.29	Stable
25	4.9	637.3	0.4	0.47	21	21.24	4.03	4.74	87.47	Stable
26	6.2	479.8	0.2	0.1	11	5.47	5.53	4.639	78.23	Stable
27	6.2	453.8	0.25	0.23	11	9.2	2.75	4.437	73.98	Stable
28	6.2	500.8	0.3	0.24	11	8.49	6.56	5.849	95.73	Slightly Unstable
29	6.2	836	0.35	0.62	11	3.27	9.55	Ejection	N/A	Unstable
30	6.2	629.9	0.4	0.54	11	0.71	2.32	5.042	89.89	Stable
31	6.2	490.5	0.2	0.11	13	5.76	4.59	4.689	82.52	Stable
32	6.2	489.6	0.25	0.28	13	6.5	2.08	3.832	66.27	Stable
33	6.2	652	0.3	0.47	13	6.22	7.88	5.193	130.95	Significantly Unstable
34	6.2	578.3	0.35	0.44	13	9.61	2.14	4.084	61.07	Stable
35	6.2	624.9	0.4	0.53	13	3.25	2.27	4.689	75.08	Stable
36	6.2	480	0.2	0.14	16	9.64	0.49	4.639	82.38	Stable
37	6.2	492.1	0.25	0.24	16	9.64	3.96	4.588	81.08	Stable
38	6.2	423.5	0.3	0.08	16	12.01	3.57	5.294	82.82	Stable
39	6.2	373	0.35	0.31	16	17.84	5.86	6	87.12	Slightly Unstable
40	6.2	494.2	0.4	0.34	16	9.52	6.2	4.437	84.52	Stable
41	6.2	474.3	0.2	0.17	18	11.9	3.52	4.538	81.87	Stable
42	6.2	468.8	0.25	0.1	18	10.93	8.45	5.546	95.56	Stable
43	6.2	353.9	0.3	0.05	18	12.01	0.64	3.277	57.56	Stable
44	6.2	400.6	0.35	0.24	18	16.54	6.2	3.882	78.99	Slightly Unstable
45	6.2	454.3	0.4	0.29	18	14.24	4.85	5.597	94.98	Stable
46	6.2	466	0.2	0.11	21	14.66	3.01	4.689	84.55	Stable
47	6.2	497.6	0.25	0.28	21	15.34	5.08	3.882	76.88	Stable
48	6.2	431.8	0.3	0.11	21	16.35	5.68	5.294	96.16	Stable

Table 2 *(continued)*

Table 2 *(continued)*

Run	m_9 ($M_\oplus$)	$a_{9,f}$ (AU)	$e_{9,i}$	$e_{9,f}$ (°)	$i_{9,i}$	$i_{9,f}$ (°)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
49	6.2	530.1	0.35	0.32	21	7.82	12.26	5.496	101.64	Significantly Unstable
50	6.2	731.6	0.4	0.61	21	13.17	9.33	5.597	94.04	Slightly Unstable
51	8.4	466.9	0.2	0.17	11	7.93	5.61	5.899	84.93	Stable
52	8.4	433.7	0.25	0.15	11	8.37	6.91	4.286	87.88	Stable
53	8.4	484	0.3	0.16	11	4.1	8.51	5.798	95.79	Stable
54	8.4	476	0.35	0.29	11	4.43	4.86	5.899	95.96	Significantly Unstable
55	8.4	441.1	0.4	0.11	11	10.6	7.4	4.538	97.03	Stable
56	8.4	488.8	0.2	0.19	13	8.99	3.59	4.437	81.95	Stable
57	8.4	519.8	0.25	0.26	13	11.53	5.92	5.697	93.6	Stable
58	8.4	452.1	0.3	0.2	13	8.15	7.83	5.697	97.17	Stable
59	8.4	532.2	0.35	0.32	13	3.48	3.06	5.496	100.21	Significantly Unstable
60	8.4	-33.9	0.4	2.41	13	11	10.66	N/A	N/A	Ejection
61	8.4	475.9	0.2	0.19	16	10.69	5.71	5.193	87.29	Stable
62	8.4	502.6	0.25	0.28	16	10.1	2.03	4.639	83.24	Stable
63	8.4	494	0.3	0.18	16	2.67	3.73	5.647	100.08	Slightly Unstable
64	8.4	94.2	0.35	0.22	16	19.11	15.63	3.328	141.03	Significantly Unstable
65	8.4	353.8	0.4	0.17	16	13.1	6.32	5.546	82.11	Significantly Unstable
66	8.4	473.6	0.2	0.13	18	12.12	6.48	4.538	94.28	Stable
67	8.4	481.2	0.25	0.24	18	14.94	4.36	4.588	77.08	Stable
68	8.4	406.6	0.3	0.01	18	9.3	6.56	5.546	96.08	Slightly Unstable
69	8.4	954	0.35	0.67	18	10	11.38	5.95	102.97	Significantly Unstable
70	8.4	895.3	0.4	0.64	18	11.12	18.01	4.941	123.42	Significantly Unstable
71	8.4	473.5	0.2	0.21	21	15.93	6.07	3.681	71.37	Stable
72	8.4	471.3	0.25	0.19	21	14.62	8.99	5.546	96.57	Stable
73	8.4	490	0.3	0.31	21	12.95	5.15	4.588	97.96	Stable
74	8.4	766.6	0.35	0.62	21	4.68	6.92	6	90.08	Slightly Unstable
75	8.4	231.1	0.4	0.26	21	15.36	14.42	5.849	148.85	Significantly Unstable

Table 3: Stochastic scattering runs from Section 5.4

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ ($^\circ$)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ ($^\circ$)	α_{max} (arcsec/yr)	θ_{max} ($^\circ$)	Stability
1	1E+07	0.01	15.52	0.38	40.9	1.2	5.1	80.46	Significantly unstable
2	1E+07	0.01	4.13	0.48	63.1	3.84	5.2	82.58	Stable
3	1E+07	0.01	18.15	0.98	663.4	1.73	3.65	78.71	Significantly unstable
4	1E+07	0.01	7.17	0.36	56.4	4.03	5.3	96.76	Significantly unstable
5	1E+07	0.01	10.40	0.33	52.0	1.75	5.65	93.14	Stable
6	1E+07	0.02	15.47	0.25	50.4	3.44	5.7	88.71	Significantly unstable
7	1E+07	0.02	19.09	0.21	48.7	10.13	4.25	84.30	Slightly unstable
8	1E+07	0.02	21.74	0.82	129.7	3	3.85	62.58	Significantly unstable
9	1E+07	0.02	13.14	0.85	152.4	0.76	3.5	51.19	Significantly unstable
10	1E+07	0.02	10.81	0.46	70.9	15.53	3.35	100.74	Significantly unstable
11	1E+07	0.03	14.91	0.76	117.4	0.94	3.6	47.36	Stable
12	1E+07	0.03	13.26	0.64	76.5	3.74	4.75	79.14	Stable
13	1E+07	0.03	10.84	0.79	122.6	7.25	4.25	97.04	Significantly unstable
14	1E+07	0.03	6.94	0.27	58.4	12.05	5.9	95.77	Stable
15	1E+07	0.03	15.80	0.86	182.7	2.68	3.55	55.96	Slightly unstable
16	1E+07	0.03	15.52	0.51	61.4	1.95	4	88.63	Stable
17	1E+07	0.03	11.11	0.76	113.4	4.06	4.45	68.75	Stable
18	1E+07	0.03	7.99	0.84	163.9	1.74	3.5	46.13	Stable
19	1E+07	0.03	3.08	0.97	697.3	2.56	4.95	69.49	Significantly unstable
20	1E+07	0.03	1.92	0.91	254.9	3.6	3.75	66.48	Significantly unstable
21	1E+07	0.03	3.40	50.75	152.0	1.15	3.4	50.75	Stable
22	1E+07	0.03	5.90	98.21	63.6	9.55	5.9	98.21	Stable
23	1E+07	0.03	4.60	97.14	95.2	8.93	4.6	97.14	slightly unstable
24	1E+07	0.03	5.95	95.88	98.6	8.91	5.95	95.88	Stable
25	1E+07	0.03	5.90	72.83	141.5	3.53	5.9	72.83	slightly unstable
26	1E+07	0.03	3.50	61.95	80.9	3.52	3.5	61.95	Stable
27	1E+07	0.03	5.20	85.69	104.2	10.46	5.2	85.69	Stable
28	1E+07	0.03	4.60	74.47	144.7	3.06	4.6	74.47	Stable
29	1E+07	0.03	4.25	75.66	82.5	2.56	4.25	75.66	Stable
30	1E+07	0.03	3.70	55.55	114.2	2.04	3.7	55.55	Stable
31	1E+07	0.03	4.60	74.89	58.4	2.63	4.6	74.89	Stable
32	1E+07	0.03	3.40	65.16	58.3	6.04	3.4	65.16	Slightly Unstable
33	1E+07	0.03	3.30	55.71	82.3	3.08	3.3	55.71	Significantly unstable
34	1E+07	0.03	5.00	89.59	44.5	8.9	5	89.59	Significantly unstable
35	1E+07	0.03	3.60	49.53	127.4	2.61	3.6	49.53	Stable
36	1E+07	0.03	4.70	95.51	50.0	5.26	4.7	95.51	Significantly unstable
37	1E+07	0.03	4.45	82.14	129.7	1.34	4.45	82.14	Significantly unstable
38	1E+07	0.03	4.50	70.07	88.3	0.83	4.5	70.07	Significantly unstable
39	1E+07	0.03	3.40	67.08	162.9	4.69	3.4	67.08	Significantly unstable
40	1E+07	0.03	4.65	85.93	111.5	6.78	4.65	85.93	Stable
41	1E+07	0.04	11.66	0.63	71.2	7.07	4.55	80.11	Significantly unstable
42	1E+07	0.04	17.72	0.83	155.8	2.58	3.4	61.61	Stable
43	1E+07	0.04	10.76	0.83	170.2	5.81	5.7	87.50	Stable
44	1E+07	0.04	16.28	0.52	68.6	5.84	5.15	86.17	Slightly unstable
45	1E+07	0.04	9.70	0.83	152.6	1.45	3.65	51.39	Stable
46	1E+07	0.05	10.84	0.81	149.8	2.17	4.6	77.66	Stable
47	1E+07	0.05	9.65	0.82	170.4	4.54	4.75	78.53	Stable
48	1E+07	0.05	15.67	0.73	109.1	6.99	4.75	83.28	Stable
49	1E+07	0.05	7.44	0.83	161.3	7.02	3.75	78.99	Slightly unstable
50	1E+07	0.05	9.83	0.91	261.7	4.55	3.35	60.42	Significantly unstable

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
51	1E+07	0.06	427.7	9.02	0.93	4.11	4.55	75.18	Stable
52	1E+07	0.06	331.3	11.14	0.92	1.12	3.75	63.25	Stable
53	1E+07	0.06	184.5	13.18	0.86	2.65	3.85	65.53	Stable
54	1E+07	0.06	298.3	11.73	0.91	0.7	3	36.08	Stable
55	1E+07	0.06	216.2	8.19	0.88	1.08	4.3	68.87	Stable
56	1E+07	0.06	296.9	3.80	62.45	2.22	3.8	62.45	Stable
57	1E+07	0.06	136.4	4.00	66.57	3.62	4	66.57	Stable
58	1E+07	0.06	287.3	3.40	48.27	1.22	3.4	48.27	Stable
59	1E+07	0.06	231.4	3.30	35.72	0.82	3.3	35.72	Stable
60	1E+07	0.06	165.4	5.80	90.36	8.8	5.8	90.36	Stable
61	1E+07	0.06	325.3	3.70	54.97	2.76	3.7	54.97	Stable
62	1E+07	0.06	291.0	3.10	44.55	1.28	3.1	44.55	Stable
63	1E+07	0.06	219.0	4.05	72.33	4.92	4.05	72.33	Stable
64	1E+07	0.06	253.8	4.15	77.86	3.3	4.15	77.86	Stable
65	1E+07	0.06	171.1	3.55	59.94	3.67	3.55	59.94	Stable
66	1E+07	0.06	221.4	3.85	70.04	4.02	3.85	70.04	Stable
67	1E+07	0.06	144.5	4.00	72.49	5.28	4	72.49	Stable
68	1E+07	0.06	144.7	3.90	68.87	2.68	3.9	68.87	Stable
69	1E+07	0.06	240.5	3.25	31.55	0.9	3.25	31.55	Stable
70	1E+07	0.06	151.9	4.55	82.40	2.98	4.55	82.40	Stable
71	1E+07	0.06	227.0	3.30	55.20	3.38	3.3	55.20	Stable
72	1E+07	0.06	175.0	3.45	50.50	0.41	3.45	50.50	Stable
73	1E+07	0.06	276.8	3.85	62.44	2.23	3.85	62.44	Stable
74	1E+07	0.06	103.5	4.15	96.05	7.98	4.15	96.05	Significantly unstable
75	1E+07	0.06	450.8	4.05	63.51	4.01	4.05	63.51	Stable
76	1E+07	0.09	310.8	17.00	0.91	3.78	3.5	64.13	Stable
77	1E+07	0.09	693.3	11.60	0.96	0.94	3.05	44.80	Stable
78	1E+07	0.09	679.5	10.53	0.96	2.28	3.5	52.44	Stable
79	1E+07	0.09	263.9	14.72	0.90	5.59	3.95	75.51	Stable
80	1E+07	0.09	360.0	16.24	0.93	3.37	3.45	62.75	Stable
81	1E+07	0.09	796.3	3.25	40.34	1.19	3.25	40.34	Stable
82	1E+07	0.09	638.0	3.25	45.20	1.12	3.25	45.20	Stable
83	1E+07	0.09	575.2	3.40	45.72	1.57	3.4	45.72	Stable
84	1E+07	0.09	186.8	3.75	68.18	3.15	3.75	68.18	Stable
85	1E+07	0.09	258.6	3.60	63.23	4.4	3.6	63.23	Stable
86	1E+07	0.09	276.2	3.85	71.59	4.83	3.85	71.59	Stable
87	1E+07	0.09	245.1	4.10	71.03	3.48	4.1	71.03	Stable
88	1E+07	0.09	341.4	3.20	42.42	2.25	3.2	42.42	Stable
89	1E+07	0.09	444.9	3.45	47.31	1.47	3.45	47.31	Stable
90	1E+07	0.09	271.1	4.05	67.09	3.29	4.05	67.09	Stable
91	1E+07	0.09	341.1	3.95	64.97	3.77	3.95	64.97	Stable
92	1E+07	0.09	1334.7	3.00	34.24	0.2	3	34.24	Significantly unstable
93	1E+07	0.09	639.2	3.60	53.31	2.25	3.6	53.31	Stable
94	1E+07	0.09	193.1	3.60	59.94	2.21	3.6	59.94	Stable
95	1E+07	0.09	1259.8	3.15	32.00	0.21	3.15	32.00	Significantly unstable
96	1E+07	0.09	327.0	3.95	61.25	1.52	3.95	61.25	Stable
97	1E+07	0.09	578.4	4.00	77.22	5.76	4	77.22	Stable
98	1E+07	0.09	257.9	3.85	69.64	4.82	3.85	69.64	Stable
99	1E+07	0.09	393.0	3.45	58.09	1.88	3.45	58.09	Stable
100	1E+07	0.09	1202.9	3.00	37.98	0.83	3	37.98	Significantly unstable

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ ($^\circ$)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ ($^\circ$)	α_{max} (arcsec/yr)	θ_{max} ($^\circ$)	Stability
101	1E+07	0.12	156.4	17.59	0.79	10.57	5.95	91.73	Stable
102	1E+07	0.12	Ejection	N/A	N/A	4.03	3.5	56.76	Stable
103	1E+07	0.12	516.9	13.93	0.95	4.93	3.55	63.14	Stable
104	1E+07	0.12	397.6	10.94	0.93	2.99	3.25	59.73	Stable
105	1E+07	0.12	391.6	9.04	0.93	4.27	3.9	74.67	Stable
106	1E+07	0.12	297.2	3.65	61.63	3.25	3.65	61.63	Stable
107	1E+07	0.12	268.6	4.35	78.61	5.55	4.35	78.61	Stable
108	1E+07	0.12	704.6	0.85	33.31	0.83	0.85	33.31	Stable
109	1E+07	0.12	710.8	3.45	53.83	3.45	3.45	53.83	Stable
110	1E+07	0.12	455.0	4.65	73.21	4.27	4.65	73.21	Stable
111	1E+07	0.12	393.4	4.30	73.46	4.26	4.3	73.46	Stable
112	1E+07	0.12	368.7	3.35	53.92	2.23	3.35	53.92	Significantly unstable
113	1E+07	0.12	446.0	3.85	69.36	6.39	3.85	69.36	Stable
114	1E+07	0.12	519.6	3.45	70.62	6.13	3.45	70.62	slightly unstable
115	1E+07	0.12	878.5	4.70	85.11	4.4	4.7	85.11	Stable
116	1E+07	0.12	663.2	3.25	50.17	1.33	3.25	50.17	Stable
117	1E+07	0.12	845.8	3.40	57.04	1.32	3.4	57.04	Stable
118	1E+07	0.12	1002.0	3.20	36.33	0.44	3.2	36.33	Stable
119	1E+07	0.12	288.4	4.55	75.47	5.69	4.55	75.47	Stable
120	1E+07	0.12	Ejection	N/A	N/A	0.99	2.95	33.39	Slightly Unstable
121	1E+07	0.12	354.4	3.80	69.69	5.17	3.8	69.69	Stable
122	1E+07	0.12	651.2	3.40	56.89	2.09	3.4	56.89	Slightly Unstable
123	1E+07	0.12	607.2	5.10	82.29	1.74	5.1	82.29	Stable
124	1E+07	0.12	234.1	4.90	77.51	4.75	4.9	77.51	Stable
125	1E+07	0.12	306.2	4.15	75.30	4.49	4.15	75.30	Stable
126	1E+07	0.15	800.2	14.70	0.97	2.69	4.45	59.29	Stable
127	1E+07	0.15	421.5	12.96	0.93	2.57	3.85	70.83	Stable
128	1E+07	0.15	618.7	14.40	0.96	4.82	3.7	63.99	Stable
129	1E+07	0.15	459.8	15.35	0.94	4.02	3.95	68.85	Stable
130	1E+07	0.15	470.8	12.63	0.94	5.1	4	73.79	Stable
131	1E+07	0.15	521.7	3.80	63.38	4.76	3.8	63.38	Stable
132	1E+07	0.15	327.9	4.05	68.72	2.13	4.05	68.72	Stable
133	1E+07	0.15	646.6	3.45	55.72	2.71	3.45	55.72	Stable
134	1E+07	0.15	1104.6	3.95	63.07	2.93	3.95	63.07	Stable
135	1E+07	0.15	831.1	3.65	64.40	2.73	3.65	64.40	Stable
136	1E+07	0.15	471.8	3.70	67.54	3.85	3.7	67.54	Stable
137	1E+07	0.15	506.3	3.75	58.16	3.81	3.75	58.16	Stable
138	1E+07	0.15	390.6	3.80	70.83	3.88	3.8	70.83	Stable
139	1E+07	0.15	2371.0	3.10	35.18	0.75	3.1	35.18	Stable
140	1E+07	0.15	398.4	3.20	52.31	1.28	3.2	52.31	Stable
141	1E+07	0.15	982.2	3.95	70.82	3.1	3.95	70.82	Stable
142	1E+07	0.15	376.4	4.05	68.92	3.3	4.05	68.92	Stable
143	1E+07	0.15	1025.5	3.25	46.43	1.26	3.25	46.43	Stable
144	1E+07	0.15	569.5	4.60	77.43	5.97	4.6	77.43	Stable
145	1E+07	0.15	1357.8	3.70	58.84	3.65	3.7	58.84	Stable
146	1E+07	0.15	1397.2	3.45	51.91	1.83	3.45	51.91	Stable
147	1E+07	0.15	802.3	3.55	57.06	2.83	3.55	57.06	Stable
148	1E+07	0.15	3455.4	2.95	29.07	1.04	2.95	29.07	Stable
149	1E+07	0.15	1866.7	3.55	58.91	3.04	3.55	58.91	Stable
150	1E+07	0.15	264.5	3.30	47.63	2.44	3.3	47.63	Stable

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
151	5E+07	0.006	75.0	1.42	0.54	0.22	5.95	88.27	Slightly unstable
152	5E+07	0.006	47.3	13.65	0.35	9.19	5.5	93.75	Significantly unstable
153	5E+07	0.006	55.2	11.38	0.28	5.42	5.85	100.61	Significantly unstable
154	5E+07	0.006	316.9	9.34	0.92	6.85	5.5	85.19	Slightly unstable
155	5E+07	0.006	111.2	5.47	0.71	3.57	5.6	102.52	Significantly unstable
156	5E+07	0.006	457.8	5.85	100.82	11.58	5.85	100.82	Significantly unstable
157	5E+07	0.006	68.7	3.65	107.56	7.6	3.65	107.56	Significantly unstable
158	5E+07	0.006	215.9	5.00	92.89	7.24	5	92.89	Significantly unstable
159	5E+07	0.006	46.2	5.00	103.17	13.16	5	103.17	slightly unstable
160	5E+07	0.006	147.8	5.25	89.45	5.43	5.25	89.45	slightly unstable
161	5E+07	0.006	193.4	5.20	98.38	9.21	5.2	98.38	slightly unstable
162	5E+07	0.006	63.2	5.55	103.53	12.16	5.55	103.53	Significantly unstable
163	5E+07	0.006	115.4	5.65	95.35	9.88	5.65	95.35	Significantly unstable
164	5E+07	0.006	332.6	3.50	70.67	1.95	3.5	70.67	Significantly unstable
165	5E+07	0.006	65.7	4.25	106.12	3.55	4.25	106.12	Significantly unstable
166	5E+07	0.006	68.4	5.75	130.84	3.66	5.75	130.84	Significantly unstable
167	5E+07	0.006	507.1	5.15	84.12	5.09	5.15	84.12	Significantly unstable
168	5E+07	0.006	44.0	3.60	63.60	3.05	3.6	63.60	Significantly unstable
169	5E+07	0.006	78.4	N/A	N/A	N/A	N/A	N/A	Ejection
170	5E+07	0.006	103.1	4.15	109.74	20.72	4.15	109.74	Significantly unstable
171	5E+07	0.006	52.3	4.00	108.77	3.18	4	108.77	Significantly unstable
172	5E+07	0.006	Ejection	N/A	N/A	N/A	5.7	112.28	Ejection
173	5E+07	0.006	53.0	4.80	93.02	4.54	4.8	93.02	Slightly Unstable
174	5E+07	0.006	53.8	5.70	101.37	2.12	5.7	101.37	Significantly unstable
175	5E+07	0.01	992.7	8.48	0.98	9.61	5.85	98.46	Significantly unstable
176	5E+07	0.01	1577.8	5.46	0.95	0.77	5.15	101.34	Ejection
177	5E+07	0.01	1383.8	15.11	0.98	4.21	5.4	83.95	Significantly unstable
178	5E+07	0.01	103.7	7.61	0.77	8.31	4.3	95.38	Significantly unstable
179	5E+07	0.01	543.1	8.20	0.74	5.49	4.1	100.36	Ejection
180	5E+07	0.012	333.9	10.76	0.93	1.99	3.8	69.19	Significantly unstable
181	5E+07	0.012	49.0	15.80	0.04	10.46	5.6	103.05	Significantly unstable
182	5E+07	0.012	317.7	14.05	0.78	N/A	4.75	105.34	Ejection
183	5E+07	0.012	73.4	6.66	0.49	8.25	5.05	106.12	Significantly unstable
184	5E+07	0.012	75.7	7.10	0.56	12.36	5.3	103.53	Slightly unstable
185	5E+07	0.012	123.8	N/A	N/A	N/A	N/A	N/A	Ejection
186	5E+07	0.012	886.8	3.85	77.47	5.08	3.85	77.47	slightly unstable
187	5E+07	0.012	94.3	3.95	73.06	0.73	3.95	73.06	Significantly unstable
188	5E+07	0.012	233.8	5.10	115.02	13.94	5.1	115.02	Significantly unstable
189	5E+07	0.012	729.1	4.90	87.98	7.08	4.9	87.98	Significantly unstable
190	5E+07	0.012	50.6	5.70	106.62	7.18	5.7	106.62	slightly unstable
191	5E+07	0.012	Ejection	N/A	N/A	2.14	5.9	92.80	slightly unstable
192	5E+07	0.012	287.4	4.40	93.11	1.38	4.4	93.11	slightly unstable
193	5E+07	0.012	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
194	5E+07	0.012	77.0	5.45	97.72	12.26	5.45	97.72	slightly unstable
195	1E+08	0.012	303.2	5.85	94.10	6.05	5.85	94.10	Significantly unstable
196	1E+08	0.012	541.5	N/A	N/A	N/A	N/A	N/A	Ejection
197	1E+08	0.012	601.1	5.85	86.63	5.27	5.85	86.63	Significantly unstable
198	1E+08	0.012	4711.8	5.15	98.60	3.73	5.15	98.60	Significantly unstable
199	1E+08	0.012	699.3	5.30	128.99	5.28	5.3	128.99	Significantly unstable
200	1E+08	0.012	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
201	1E+08	0.012	Ejection	N/A	N/A	13.4	1.9	116.79	Significantly unstable
202	1E+08	0.012	14836.6	N/A	N/A	N/A	N/A	N/A	Ejection
203	1E+08	0.012	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
204	1E+08	0.012	846.3	4.65	83.35	5.13	4.65	83.35	Stable
205	5E+07	0.018	228.8	17.55	0.87	6.42	5.6	99.37	Significantly unstable
206	5E+07	0.018	105.9	15.14	0.71	9.25	3.5	120.24	Significantly unstable
207	5E+07	0.018	158.2	19.09	0.84	6.41	5.85	101.73	Significantly unstable
208	5E+07	0.018	1061.5	12.75	0.98	1.84	3.8	60.63	Significantly unstable
209	5E+07	0.018	144.8	7.63	0.79	12.49	5.7	98.71	Stable
210	5E+07	0.018	378.5	5.65	87.23	2.61	5.65	87.23	slightly unstable
211	5E+07	0.018	820.8	4.85	92.69	5.11	4.85	92.69	slightly unstable
212	5E+07	0.018	179.7	1.50	105.32	12.33	1.5	105.32	Significantly unstable
213	5E+07	0.018	1608.4	3.85	72.54	3.58	3.85	72.54	Significantly unstable
214	5E+07	0.018	2389.5	3.75	59.13	1.23	3.75	59.13	Significantly unstable
215	5E+07	0.018	348.5	5.80	102.02	10.03	5.8	102.02	slightly unstable
216	5E+07	0.018	79.4	5.85	99.92	9.73	5.85	99.92	Significantly unstable
217	5E+07	0.018	69.3	5.90	98.80	7.82	5.9	98.80	slightly unstable
218	5E+07	0.018	62.2	4.05	121.85	24.29	4.05	121.85	Significantly unstable
219	5E+07	0.018	172.6	4.55	103.92	9.28	4.55	103.92	Significantly unstable
220	5E+07	0.018	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
221	5E+07	0.018	3321.9	4.60	74.96	2.63	4.6	74.96	Significantly unstable
222	5E+07	0.018	312.7	4.15	98.99	9.29	4.15	98.99	Significantly unstable
223	5E+07	0.018	1122.3	5.30	104.35	9.54	5.3	104.35	Significantly unstable
224	5E+07	0.018	2505.5	5.90	85.35	2.2	5.9	85.35	Significantly unstable
225	5E+07	0.018	3066.7	3.90	66.41	3.99	3.9	66.41	Stable
226	5E+07	0.018	Ejection	N/A	N/A	3.23	3.9	76.54	Significantly unstable
227	5E+07	0.018	287.9	5.65	105.42	12.04	5.65	105.42	Significantly unstable
228	5E+07	0.018	7407863.9	5.85	100.77	3.54	5.85	100.77	Significantly unstable
229	5E+07	0.018	458.2	N/A	N/A	N/A	N/A	N/A	Ejection
230	5E+07	0.02	1074.3	10.22	0.98	8.33	5.9	96.27	Significantly unstable
231	5E+07	0.02	12259.8	9.27	1.00	7.47	4.35	87.68	Significantly unstable
232	5E+07	0.02	330.9	5.36	0.90	6.67	5.35	112.00	Significantly unstable
233	5E+07	0.02	114.1	6.18	0.70	7.64	5.7	104.82	Significantly unstable
234	5E+07	0.02	98.3	13.07	0.68	10.67	4.95	97.95	Slightly unstable
235	5E+07	0.024	1304.0	5.80	0.98	5.71	4.95	86.05	Stable
236	5E+07	0.024	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
237	5E+07	0.024	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
238	5E+07	0.024	411.7	14.78	0.94	2.49	4.45	75.17	Slightly unstable
239	5E+07	0.024	76.3	6.20	0.36	14.56	5	103.92	Significantly unstable
240	5E+07	0.024	248.6	5.10	111.89	9	5.1	111.89	Significantly unstable
241	5E+07	0.024	85.0	5.60	93.14	2.96	5.6	93.14	Significantly unstable
242	5E+07	0.024	Ejection	N/A	N/A	3.8	3.7	71.29	Significantly unstable
243	5E+07	0.024	10556.3	4.15	132.94	9.03	4.15	132.94	Significantly unstable
244	5E+07	0.024	298.9	5.70	90.27	8.48	5.7	90.27	Significantly unstable
245	5E+07	0.024	167.4	4.10	77.86	4.93	4.1	77.86	Significantly unstable
246	5E+07	0.024	858.1	4.10	76.32	2.57	4.1	76.32	Significantly unstable
247	5E+07	0.024	1175.6	5.00	77.79	0.78	5	77.79	slightly unstable
248	5E+07	0.024	119.3	3.90	70.59	1.47	3.9	70.59	Stable
249	5E+07	0.024	84.1	3.70	102.80	10.84	3.7	102.80	Significantly unstable
250	5E+07	0.024	Ejection	N/A	N/A	N/A	5.6	137.32	Ejection

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
251	5E+07	0.024	235.7	4.85	103.23	1.71	4.85	103.23	Significantly unstable
252	5E+07	0.024	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
253	5E+07	0.024	386.8	5.00	89.45	5.51	5	89.45	Slightly Unstable
254	5E+07	0.024	82.6	5.00	130.21	13.22	5	130.21	Significantly unstable
255	5E+07	0.024	239.7	5.90	96.25	6.98	5.9	96.25	Stable
256	5E+07	0.024	199.7	5.20	102.47	4.15	5.2	102.47	Significantly unstable
257	5E+07	0.024	4449.3	3.55	54.12	1.83	3.55	54.12	Slightly Unstable
258	5E+07	0.024	136.4	2.70	115.22	13.02	2.7	115.22	Significantly unstable
259	5E+07	0.024	127.7	4.90	97.41	6.59	4.9	97.41	Stable
260	5E+07	0.03	1880.3	11.61	0.99	4.26	5.3	80.82	Stable
261	5E+07	0.03	1228.2	14.35	0.98	2.02	3.5	54.79	Stable
262	5E+07	0.03	6395.9	10.40	1.00	3.35	3.45	68.30	Stable
263	5E+07	0.03	32511.2	7.37	1.00	2.27	5.2	82.21	Significantly unstable
264	5E+07	0.03	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
265	5E+07	0.03	2470.0	15.87	0.99	5.31	4.7	79.25	Significantly unstable
266	5E+07	0.03	1114.5	5.14	0.98	10.83	4.8	108.75	Significantly unstable
267	5E+07	0.03	816.7	13.37	0.97	5.16	3.8	76.92	Significantly unstable
268	5E+07	0.03	2110.6	11.08	0.99	3.51	4.8	77.32	Stable
269	5E+07	0.03	598.1	10.78	0.95	9.52			Slightly unstable
270	5E+07	0.03	173.0	5.20	96.79	9.21	5.2	96.79	Significantly unstable
271	5E+07	0.03	67.9	5.80	98.74	12.35	5.8	98.74	Significantly unstable
272	5E+07	0.03	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
273	5E+07	0.03	452.8	4.60	80.80	4.97	4.6	80.80	Significantly unstable
274	5E+07	0.03	Ejection	N/A	N/A	1.9	4.5	76.35	slightly unstable
275	5E+07	0.03	613.9	4.95	97.87	5.68	4.95	97.87	slightly unstable
276	5E+07	0.03	349.5	4.50	104.28	11.81	4.5	104.28	Significantly unstable
277	5E+07	0.03	1999.7	N/A	N/A	N/A	N/A	N/A	Ejection
278	5E+07	0.03	415.0	5.90	89.84	3.1	5.9	89.84	Stable
279	5E+07	0.03	2274.5	N/A	N/A	N/A	N/A	N/A	Ejection
280	5E+07	0.03	753.8	4.50	75.70	3.87	4.5	75.70	Stable
281	5E+07	0.03	914.8	5.50	97.39	8.67	5.5	97.39	Significantly unstable
282	5E+07	0.03	Ejection	N/A	N/A	3.43	2.75	101.67	Significantly unstable
283	5E+07	0.03	2878.0	4.25	86.43	6.96	4.25	86.43	Stable
284	5E+07	0.03	1009.6	4.90	82.89	4.26	4.9	82.89	Significantly unstable
285	5E+07	0.03	5708.7	3.10	66.64	1.99	3.1	66.64	Significantly unstable
286	5E+07	0.03	137.9	N/A	N/A	N/A	N/A	N/A	Ejection
287	5E+07	0.03	919.8	3.20	55.26	2.39	3.2	55.26	Slightly Unstable
288	5E+07	0.03	522.0	5.85	97.81	2.76	5.85	97.81	Significantly unstable
289	5E+07	0.03	119.6	4.70	97.72	9.74	4.7	97.72	Significantly unstable
290	5E+07	0.04	149496.1	8.78	1.00	2.59	5.25	85.74	Significantly unstable
291	5E+07	0.04	280.3	16.78	0.89	5.06	5.3	102.95	Slightly unstable
292	5E+07	0.04	852.7	18.21	0.97	0.25	3.25	47.11	Stable
293	5E+07	0.04	1798.8	17.76	0.99	3.05	3.65	64.53	Stable
294	5E+07	0.04	5144.2	10.57	1.00	9.45	5.55	90.61	Significantly unstable
295	5E+07	0.05	770.5	11.61	0.96	3.85	4.15	90.43	Stable
296	5E+07	0.05	829.4	7.54	0.97	2.68	4.45	67.29	Stable
297	5E+07	0.05	24091.3	10.07	1.00	4.82	3.85	76.97	Significantly unstable
298	5E+07	0.05	8057.0	8.04	1.00	3.29	4.45	77.70	Stable
299	5E+07	0.05	1810.0	18.76	0.99	4.56	3.85	74.41	Stable
300	1E+08	0.003	35.0	2.74	0.09	20.4	4.9	153.40	Significantly unstable

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
301	1E+08	0.003	5929.9	10.80	1.00	5.19	4.8	99.10	Significantly unstable
302	1E+08	0.003	238.6	29.70	0.88	1.11	5.05	98.97	Significantly unstable
303	1E+08	0.003	56.7	9.37	0.31	8.26	3.3	112.22	Significantly unstable
304	1E+08	0.003	94.6	12.62	0.65	22.49	3	145.48	Significantly unstable
305	1E+08	0.003	344.2	5.45	96.25	9.14	5.45	96.25	Significantly unstable
306	1E+08	0.003	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
307	1E+08	0.003	68.0	5.20	106.30	10.35	5.2	106.30	Significantly unstable
308	1E+08	0.003	233.0	N/A	N/A	N/A	N/A	N/A	Ejection
309	1E+08	0.003	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
310	1E+08	0.003	Ejection	N/A	N/A	N/A	Timeout	Timeout	Ejection
311	1E+08	0.003	2373.1	5.00	99.94	9.21	5	99.94	Significantly unstable
312	1E+08	0.003	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
313	1E+08	0.003	Ejection	N/A	N/A	15.38	2.9	131.25	Significantly unstable
314	1E+08	0.003	101.1	5.30	122.47	16.79	5.3	122.47	Significantly unstable
315	1E+08	0.003	Ejection	N/A	N/A	10.48	5.2	101.75	Significantly unstable
316	1E+08	0.003	Ejection	N/A	N/A	8.19	5.25	96.67	Significantly unstable
317	1E+08	0.003	Ejection	N/A	N/A	2.1	4.4	121.69	Significantly unstable
318	1E+08	0.003	3766.8	N/A	N/A	N/A	N/A	N/A	Ejection
319	1E+08	0.003	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
320	1E+08	0.003	141.1	N/A	N/A	N/A	N/A	N/A	Ejection
321	1E+08	0.003	Ejection	N/A	N/A	9.13	3.3	104.49	Significantly unstable
322	1E+08	0.003	470.3	N/A	N/A	N/A	N/A	N/A	Ejection
323	1E+08	0.003	99.9	4.45	110.87	14.41	4.45	110.87	Significantly unstable
324	1E+08	0.006	1152.9	17.98	0.98	5.05	4.45	78.75	Significantly unstable
325	1E+08	0.006	Ejection	N/A	N/A	3.93	3.3	127.27	Significantly unstable
326	1E+08	0.006	Ejection	N/A	N/A	N/A	0.1	N/A	Ejection
327	1E+08	0.006	Ejection	N/A	N/A	N/A	2.55	119.16	Ejection
328	1E+08	0.006	114.7	158.50	0.98	N/A		N/A	Ejection
329	1E+08	0.006	41.9	5.50	101.27	9.58	5.5	101.27	Significantly unstable
330	1E+08	0.006	291.5	5.80	100.22	10	5.8	100.22	Significantly unstable
331	1E+08	0.006	Ejection	N/A	N/A	3.66	N/A	N/A	Ejection
332	1E+08	0.006	269.1	5.40	112.98	7.14	5.4	112.98	Significantly unstable
333	1E+08	0.006	Ejection	N/A	N/A	9.49	5.15	97.88	Significantly unstable
334	1E+08	0.006	1713.5	3.55	89.26	6.97	3.55	89.26	Significantly unstable
335	1E+08	0.006	131.1	N/A	N/A	N/A	N/A	N/A	Ejection
336	1E+08	0.006	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
337	1E+08	0.006	2423.2	5.75	98.62	8.71	5.75	98.62	Significantly unstable
338	1E+08	0.006	7576.6	4.10	100.21	5.43	4.1	100.21	Significantly unstable
339	1E+08	0.006	72.3	2.10	126.29	15.38	2.1	126.29	Significantly unstable
340	1E+08	0.006	Ejection	N/A	N/A	0.79	4.65	96.81	Significantly unstable
341	1E+08	0.006	1293.8	5.35	78.29	3.23	5.35	78.29	Significantly unstable
342	1E+08	0.006	121.9	N/A	N/A	N/A	N/A	N/A	Ejection
343	1E+08	0.006	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
344	1E+08	0.006	108.4	4.75	116.43	3.12	4.75	116.43	Significantly unstable
345	1E+08	0.006	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
346	1E+08	0.006	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
347	1E+08	0.006	87.8	5.65	110.86	9.99	5.65	110.86	Significantly unstable
348	1E+08	0.006	114.4	5.80	105.48	6.79	5.8	105.48	Ejection
349	1E+08	0.009	138.4	7.82	0.89	11.04	5.95	106.54	Significantly unstable
350	1E+08	0.009	Ejection	12.67	3.75	N/A		N/A	Ejection

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
351	1E+08	0.009	489.9	5.77	0.96	17.76	2.5	119.28	Significantly unstable
352	1E+08	0.009	51.2	23.16	0.30	5.73	3.95	94.84	Stable
353	1E+08	0.009	2597.4	15.65	0.99	3.55	4.95	103.49	Significantly unstable
354	1E+08	0.009	Ejection	N/A	N/A	14.28	5.65	103.29	Significantly unstable
355	1E+08	0.009	553.0	4.35	99.38	6.81	4.35	99.38	Significantly unstable
356	1E+08	0.009	Ejection	N/A	N/A	12.47	4.15	98.87	Significantly unstable
357	1E+08	0.009	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
358	1E+08	0.009	Ejection	N/A	N/A	6.06	4.4	88.67	Significantly unstable
359	1E+08	0.009	Ejection	N/A	N/A	5.72	3.05	115.11	Significantly unstable
360	1E+08	0.009	196085.3	1.40	126.64	11.2	1.4	126.64	Significantly unstable
361	1E+08	0.009	472.7	N/A	N/A	N/A	Timeout	Timeout	Ejection
362	1E+08	0.009	112.3	3.65	143.08	12.63	3.65	143.08	Significantly unstable
363	1E+08	0.009	Ejection	N/A	N/A	16.12	5.7	134.13	Significantly unstable
364	1E+08	0.009	1563.0	2.75	126.08	0.84	2.75	126.08	Significantly unstable
365	1E+08	0.009	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
366	1E+08	0.009	Ejection	N/A	N/A	3.36	3.85	99.84	Significantly unstable
367	1E+08	0.009	251.3	5.55	102.87	3.1	5.55	102.87	Significantly unstable
368	1E+08	0.009	808.5	N/A	N/A	N/A	N/A	N/A	Ejection
369	1E+08	0.009	8046.4	5.40	94.82	5.76	5.4	94.82	Significantly unstable
370	1E+08	0.009	147.2	5.95	130.31	10.38	5.95	130.31	Significantly unstable
371	1E+08	0.009	149387.2	3.95	81.05	3.91	3.95	81.05	Significantly unstable
372	1E+08	0.009	328.9	5.15	91.49	3.55	5.15	91.49	Significantly unstable
373	1E+08	0.009	217.5	5.70	109.18	8.95	5.7	109.18	Significantly unstable
374	1E+08	0.01	75.1	20.40	0.49	19.78	4.35	128.75	Significantly unstable
375	1E+08	0.01	179586.7	16.46	1.00	5.55	5.9	98.51	Significantly unstable
376	1E+08	0.01	Ejection	N/A	N/A	10.18	5.35	102.24	Significantly unstable
377	1E+08	0.01	9093.0	10.22	1.00	8	5.45	105.51	Significantly unstable
378	1E+08	0.01	842.0	1.79	0.97	1.2	4.35	74.96	Slightly unstable
379	1E+08	0.012	Ejection	N/A	N/A	19.64	1.25	119.58	Significantly unstable
380	1E+08	0.012	902.0	129.29	0.99	25.46	3	135.25	Significantly unstable
381	1E+08	0.012	Ejection	162.70	2.42	N/A	N/A	N/A	Ejection
382	1E+08	0.012	Ejection	12.90	1.01	N/A	N/A	N/A	Ejection
383	1E+08	0.012	163526.6	11.70	1.00	N/A	3.8	155.18	Ejection
384	1E+08	0.012	405.0	2.50	110.75	N/A	2.5	110.75	Ejection
385	1E+08	0.012	63.4	4.90	89.53	4.67	4.9	89.53	Significantly unstable
386	1E+08	0.012	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
387	1E+08	0.012	6733.9	4.65	110.71	19.86	4.65	110.71	Significantly unstable
388	1E+08	0.012	949.2	N/A	N/A	N/A	N/A	N/A	Ejection
389	1E+08	0.012	1940.3	5.80	104.41	7.68	5.8	104.41	Significantly unstable
390	1E+08	0.012	Ejection	N/A	N/A	5.9	5.2	88.56	Significantly unstable
391	1E+08	0.012	2977.6	4.65	79.69	1.85	4.65	79.69	Significantly unstable
392	1E+08	0.012	93.6	4.05	107.04	16.97	4.05	107.04	slightly unstable
393	1E+08	0.012	1748.3	2.20	117.42	9.9	2.2	117.42	Significantly unstable
394	1E+08	0.012	303.2	5.85	94.10	6.05	5.85	94.10	Significantly unstable
395	1E+08	0.012	541.5	N/A	N/A	114.46	N/A	N/A	Ejection
396	1E+08	0.012	601.1	5.85	86.63	5.27	5.85	86.63	Significantly unstable
397	1E+08	0.012	4711.8	5.15	98.60	3.73	5.15	98.60	Significantly unstable
398	1E+08	0.012	699.3	5.30	128.99	5.28	5.3	128.99	Significantly unstable
399	1E+08	0.012	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
400	1E+08	0.012	Ejection	N/A	N/A	13.4	1.9	116.79	Significantly unstable

Table 3 *(continued)*

Run	T_{max} (Yrs)	Kick Time (2π yrs)	$i_{9,f}$ (°)	$e_{9,f}$	$a_{9,f}$ (AU)	$i_{U,f}$ (°)	α_{max} (arcsec/yr)	θ_{max} (°)	Stability
401	1E+08	0.012	14836.6	N/A	N/A	N/A	N/A	N/A	Ejection
402	1E+08	0.012	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
403	1E+08	0.012	846.3	4.65	83.35	5.13	4.65	83.35	Stable
404	1E+08	0.0018	1091.7	6.26	0.97	3.52	4.7	99.73	Significantly unstable
405	1E+08	0.0018	1103.9	10.46	0.98	5.14	5.7	103.55	Significantly unstable
406	1E+08	0.0018	Ejection	N/A	N/A	2.24	3.9	77.68	Significantly unstable
407	1E+08	0.0018	3420.3	9.66	0.99	7.35	5.55	109.15	Slightly unstable
408	1E+08	0.0018	1810.5	11.59	0.99	4.33	3.9	73.17	Slightly unstable
409	1E+08	0.015	424.4	4.95	112.52	15.19	4.95	112.52	Significantly unstable
410	1E+08	0.015	Ejection	N/A	N/A	15.4	4.6	101.34	Significantly unstable
411	1E+08	0.015	295.6	4.35	105.74	14.09	4.35	105.74	Significantly unstable
412	1E+08	0.015	89227.0	N/A	N/A	N/A	N/A	N/A	Ejection
413	1E+08	0.015	Ejection	N/A	N/A	4.81	5.65	112.29	Significantly unstable
414	1E+08	0.015	Ejection	N/A	N/A	4.97	5.1	92.55	Significantly unstable
415	1E+08	0.015	673.6	4.90	109.21	8.88	4.9	109.21	Significantly unstable
416	1E+08	0.015	61.0	3.60	134.94	20.43	3.6	134.94	Significantly unstable
417	1E+08	0.015	Ejection	N/A	N/A	1.33	3.05	73.07	Significantly unstable
418	1E+08	0.015	899.6	4.65	72.67	2.68	4.65	72.67	Stable
419	1E+08	0.015	1417.7	5.10	107.98	N/A	5.1	107.98	Ejection
420	1E+08	0.015	1429.7	2.55	114.95	8.76	2.55	114.95	Significantly unstable
421	1E+08	0.015	3881.6	3.20	52.39	1.24	3.2	52.39	Significantly unstable
422	1E+08	0.015	3438.4	5.55	99.57	11.99	5.55	99.57	Significantly unstable
423	1E+08	0.015	Ejection	N/A	N/A	N/A	4.85	119.85	Ejection
424	1E+08	0.015	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
425	1E+08	0.015	571.8	4.95	91.89	7.57	4.95	91.89	Significantly unstable
426	1E+08	0.015	Ejection	N/A	N/A	5.41	4.95	109.07	Ejection
427	1E+08	0.015	128.4	4.20	127.95	8.62	4.2	127.95	Significantly unstable
428	1E+08	0.015	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
429	1E+08	0.02	Ejection	N/A	N/A	8.95	5.6	98.61	Significantly unstable
430	1E+08	0.02	244.7	25.58	0.88	5.88	4.2	92.75	Significantly unstable
431	1E+08	0.02	397.5	32.44	0.92	5.87	2.25	130.52	Significantly unstable
432	1E+08	0.02	Ejection	N/A	N/A	4.85	4.65	82.08	Significantly unstable
433	1E+08	0.02	Ejection	N/A	N/A	N/A	N/A	N/A	Ejection
434	1E+08	0.03	1338.0	10.10	0.73	N/A	N/A	N/A	Ejection
435	1E+08	0.03	660.3	1.16	0.95	2.62	3.75	103.60	Significantly unstable
436	1E+08	0.03	4201.0	2.65	0.99	31.61	5.9	131.96	Significantly unstable
437	1E+08	0.03	Ejection	N/A	N/A	3.91	5.75	95.33	Stable
438	1E+08	0.03	3304.0	N/A	N/A	7.51	5.85	109.10	Slightly unstable
439	1E+08	0.04	17167.0	12.23	1.00	1.18	3.7	68.83	Slightly unstable
440	1E+08	0.04	2678.5	13.65	0.99	3.57	5.3	75.92	Stable
441	1E+08	0.04	8469.9	10.61	1.00	3.24	5.15	102.08	Significantly unstable
442	1E+08	0.04	556.0	16.59	0.95	5.65	5.75	98.74	Significantly unstable
443	1E+08	0.04	746.8	24.85	0.96	1	4.15	76.57	Significantly unstable
444	1E+08	0.05	1686.1	13.23	0.98	10.59	4.6	104.96	Significantly unstable
445	1E+08	0.05	2149.0	11.55	0.99	9.76	5.5	96.18	Significantly unstable
446	1E+08	0.05	16021.0	12.86	1.00	1.81	3.85	58.57	Stable
447	1E+08	0.05	21540.6	9.88	1.00	9.93	4.85	98.95	Slightly unstable
448	1E+08	0.05	726.2	16.37	0.96	10.04	5.35	106.95	Slightly unstable