

原器リスト I R1~

	a	b	c	d	e	f	g	h	i	j
1	R1~	7.015	9.592	11.936	14.092	16.334	18.075	20.724	21.952	23.336
2	1.600	7.082	9.668	12.000	14.238	16.3859	18.079	20.7556	21.9521	23.390
3	1.800	7.100	9.720	12.056	14.2498	16.400	18.210	20.756	21.9787	23.400
4	2.512	7.110	9.7227	12.100	14.2924	16.406	18.246	20.820	22.017	23.416
5	2.671	7.1973	9.7565	12.106	14.2979	16.430	18.2953	20.833	22.0172	23.417
6	2.692	7.330	9.8182	12.2984	14.3066	16.500	18.480	20.842	22.059	23.419
7	3.000	7.4518	9.8289	12.415	14.3199	16.5752	18.4803	20.060	22.114	23.442
8	3.125	7.4955	9.8332	12.480	14.320	16.580	18.500	20.1583	22.1387	23.484
9	3.221	7.673	9.891	12.4894	14.386	16.5958	18.5047	20.163	22.1985	23.500
10	3.250	7.800	9.893	12.550	14.401	16.602	18.5049	20.182	22.220	23.514
11	3.280	7.8441	R10~	12.568	14.4265	16.603	18.531	20.200	22.300	23.528
12	3.615	7.848	10.000	12.571	14.460	16.612	18.600	20.336	22.350	23.636
13	3.688	7.8933	10.032	12.589	14.4601	16.700	18.762	20.3557	22.394	23.814
14	3.767	8.0327	10.0439	12.5978	14.5993	16.7201	19.0267	20.453	22.3944	23.815
15	4.029	8.0684	10.100	12.6413	14.600	16.7665	19.042	20.570	22.4878	23.819
16	4.050	8.0697	10.1057	12.667	14.678	16.812	19.080	20.850	22.488	23.899
17	4.245	8.0819	10.1376	12.7939	14.688	16.850	19.1409	20.8568	22.495	23.90
18	4.280	8.2341	10.1378	12.794	14.703	16.8605	19.230	20.862	22.498	23.902
19	4.288	8.2444	10.200	12.864	14.749	16.900	19.2348	20.883	22.539	23.906
20	4.463	8.277	10.222	12.8657	14.7642	16.916	19.248	20.980	22.549	23.9432
21	4.470	8.325	10.245	12.8982	R15~	16.990	19.2678	20.981	22.590	23.960
22	4.632	8.3411	10.255	12.960	15.000	17.000	19.270	20.983	22.598	23.990
23	4.740	8.4311	10.272	13.050	15.0568	17.002	19.309	20.9906	22.600	
24	4.830	8.4362	10.3059	13.0556	15.155	17.068	19.400	21.00	22.650	
25	4.960	8.441	10.4165	13.160	15.179	17.115	19.4262	21.011	22.6846	
26	R5~	8.475	10.5499	13.210	15.1886	17.135	19.469	21.050	22.6981	
27	5.000	8.490	10.560	13.255	15.215	17.2177	19.490	21.087	22.712	
28	5.160	8.500	10.5779	13.2795	15.250	17.256	19.4938	21.100	22.750	
29	5.200	8.645	10.669	13.333	15.400	17.270	19.496	21.120	22.778	
30	5.221	8.702	10.670	13.347	15.525	17.272	19.500	21.130	22.786	
31	5.464	8.7391	10.6718	13.374	15.560	17.280	19.510	21.140	22.797	
32	5.500	8.7464	10.696	13.40	15.600	17.3827	19.60	21.150	22.800	
33	5.681	8.843	10.7201	13.4128	15.6064	17.4593	19.619	21.180	22.805	
34	5.705	8.850	10.736	13.4172	15.648	17.4594	19.6747	21.220	22.816	
35	5.800	9.000	10.750	13.4839	15.650	17.492	19.7038	21.260	22.817	
36	5.804	9.008	10.795	13.5612	15.6874	17.497	19.860	21.353	22.871	
37	5.900	9.0906	11.000	13.5641	15.740	17.529	19.8669	21.358	22.8754	
38	6.166	9.097	11.105	13.600	15.741	17.657	19.928	21.400	22.876	
39	6.195	9.200	11.143	13.6248	15.8756	17.6846	19.9397	21.492	22.876	
40	6.270	9.2462	11.217	13.6387	15.895	17.700	19.999	21.5318	22.910	
41	6.300	9.270	11.3074	13.670	15.900	17.730	R20~	21.5518	22.940	
42	6.355	9.3658	11.326	13.800	16.000	17.777	20.00	21.598	22.950	
43	6.469	9.3911	11.3438	13.8646	16.052	17.8005	20.232	21.681	22.9921	
44	6.470	9.400	11.400	13.929	16.1231	17.849	20.538	21.6825	23.010	
45	6.560	9.405	11.480	13.936	16.218	17.996	20.582	21.687	23.042	
46	6.5736	9.523	11.500	13.9363	16.270	18.000	20.600	21.7553	23.060	
47	6.6514	9.526	11.646	13.9393	16.300	18.067	20.610	21.770	23.285	
48	6.770	9.534	11.730	14.000	16.320	18.0679	20.617	21.909	23.287	
49	6.800	9.555	11.760	14.040	16.330	18.0697	20.704	21.926	23.290	
50	6.845	9.589	11.805	14.0608	16.333	18.070	20.720	21.935	23.297	

原器リストⅡ R24～

	a	b	c	d	e	f	g	h	i	j
51	R24～	25.417	27.480	R30～	32.446	34.447	36.919	39.326	41.589	44.500
52	24.000	25.420	27.520	30.000	32.447	34.4781	37.000	39.364	41.6834	44.624
53	24.031	25.439	27.540	30.089	32.540	34.493	37.002	39.375	41.710	44.642
54	24.1245	25.440	27.613	30.130	32.600	34.520	37.008	39.386	41.762	44.675
55	24.130	25.485	27.618	30.287	32.712	34.580	37.080	39.450	41.776	44.706
56	24.134	25.580	27.621	30.350	32.734	34.800	37.1534	39.457	41.800	44.752
57	24.1345	25.633	27.830	30.564	32.790	34.846	37.170	39.470	41.867	44.7525
58	24.137	25.650	27.990	30.569	32.8633	34.852	37.172	39.530	41.920	44.880
59	24.1745	25.850	28.000	30.575	32.9917	R35～	37.220	39.575	41.945	44.938
60	24.181	25.955	28.0182	30.6067	33.000	35.1897	37.343	39.8454	41.960	44.968
61	24.380	26.039	28.070	30.689	33.018	35.192	37.458	39.855	41.9843	
62	24.400	26.090	28.1464	30.700	33.020	35.200	37.500	39.875	41.999	
63	24.406	26.1274	28.180	30.775	33.045	35.264	37.504	R40～	42.000	
64	24.415	26.161	28.184	30.800	33.070	35.290	37.510	40.000	42.005	
65	24.4172	26.2699	28.225	30.8033	33.126	35.330	37.5107	40.110	42.1323	
66	24.477	26.318	28.2332	30.810	33.179	35.379	37.548	40.130	42.474	
67	24.479	26.380	28.246	30.8423	33.186	35.389	37.570	40.133	42.500	
68	24.494	26.3913	28.300	30.860	33.220	35.390	37.622	40.150	42.505	
69	24.582	26.406	28.330	30.947	33.256	35.3906	37.740	40.388	42.660	
70	24.583	26.416	28.3449	31.000	33.260	35.395	37.7827	40.490	42.690	
71	24.5935	26.4828	28.3499	31.0197	33.2629	35.400	37.8040	40.540	42.705	
72	24.649	26.5374	28.387	31.059	33.263	35.4266	37.820	40.598	42.714	
73	24.6778	26.5974	28.3903	31.113	33.3256	35.530	37.830	40.660	42.717	
74	24.704	26.7559	28.552	31.114	33.417	35.560	37.850	40.694	42.771	
75	24.712	26.762	28.5933	31.1210	33.460	35.607	37.884	40.700	43.000	
76	24.748	26.763	28.6614	31.130	33.500	35.634	37.953	40.716	43.0887	
77	24.749	26.765	28.7465	31.203	33.539	35.656	37.953	40.7164	43.103	
78	24.801	26.799	28.788	31.2586	33.600	35.756	38.000	40.790	43.150	
79	24.802	26.8014	28.910	31.340	33.705	35.757	38.010	40.800	43.180	
80	24.8028	26.890	28.969	31.350	33.720	35.814	38.039	40.8219	43.232	
81	24.806	26.895	28.988	31.380	33.830	35.8175	38.150	40.8291	43.240	
82	24.807	27.000	29.070	31.382	33.839	35.820	38.231	40.8371	43.4211	
83	24.808	27.080	29.118	31.658	33.86	35.8216	38.244	40.8662	43.440	
84	24.810	27.102	29.2976	31.716	33.953	35.932	38.365	40.8871	43.490	
85	24.8821	27.1681	29.310	31.720	34.27	36.000	38.369	40.930	43.4913	
86	24.902	27.200	29.3184	31.832	35.00	36.084	38.435	40.965	43.599	
87	24.916	27.207	29.3189	31.840	35.28	36.110	38.438	41.025	43.688	
88	24.996	27.2133	29.380	31.851	34.0236	36.116	38.490	41.034	43.705	
89	24.999	27.2137	29.389	31.995	34.0326	36.150	38.500	41.086	43.706	
90	R25～	27.217	29.390	32.000	34.059	36.235	38.521	41.1473	43.740	
91	25.000	27.270	29.480	32.0326	34.0591	36.320	38.5358	41.150	43.806	
92	25.016	27.300	29.500	32.060	34.114	36.4032	38.5392	41.1762	43.900	
93	25.091	27.339	29.560	32.200	34.1455	36.500	38.608	41.2565	43.907	
94	25.119	27.3915	29.595	32.269	34.227	36.577	38.614	41.266	44.053	
95	25.120	27.395	29.799	32.2804	34.228	36.700	38.620	41.269	44.059	
96	25.176	27.397	29.840	32.313	34.230	36.732	38.8981	41.272	44.062	
97	25.184	27.398		32.324	34.355	36.822	39.2036	41.274	44.254	
98	25.188	27.399		32.334	34.360	36.900	39.241	41.500	44.340	
99	25.206	27.429		32.440	34.420	36.904	39.243	41.567	44.343	
100	25.339	27.450		32.443	34.430	36.914	39.310	41.5688	44.3987	

原器リストⅢ R45～

	a	b	c	d	e	f	g	h	i	j
101	R45～	47.916	51.212	53.670	58.1937	61.010	64.970	68.580	72.304	77.409
102	45.000	47.921	51.300	53.700	58.228	61.040	64.985	68.650	72.330	77.428
103	45.090	48.064	51.3063	53.708	58.292	61.0402	R65～	68.661	72.402	77.546
104	45.151	48.109	51.308	53.838	58.294	61.087	65.000	68.800	72.551	77.553
105	45.182	48.127	51.360	53.858	58.335	61.100	65.024	68.801	72.750	77.830
106	45.364	48.1825	51.385	53.866	58.410	61.200	65.028	68.810	72.880	77.978
107	45.456	48.380	51.479	53.927	58.498	61.246	65.040	69.000	73.247	78.035
108	45.590	48.520	51.601	54.000	58.5526	61.2471	65.143	69.008	73.342	78.037
109	45.643	48.726	51.660	54.013	58.690	61.256	65.250	69.088	73.380	78.300
110	45.645	48.806	51.7323	54.0192	58.700	61.308	65.4725	69.510	73.388	78.590
111	45.648	48.904	51.770	54.036	58.826	61.500	65.500	69.549	73.478	78.610
112	45.650	48.956	51.870	54.527	58.870	62.100	65.735	69.569	73.914	78.756
113	45.710	49.000	51.884	54.560	58.922	62.107	65.9661	69.571	74.168	79.110
114	45.743	49.0479	51.999	54.860	58.940	62.108	66.000	69.640	74.284	79.1586
115	45.779	49.060	52.000	54.940	58.947	62.1591	66.070	69.670	74.3886	79.394
116	45.783	49.166	52.030	R55～	58.950	62.200	66.160	69.700	74.402	79.400
117	45.850	49.260	52.0333	55.154	59.060	62.2732	66.220	69.7342	74.4299	79.635
118	45.8623	49.360	52.040	55.155	59.3824	62.300	66.255	69.8219	74.447	79.756
119	45.870	49.400	52.055	55.380	59.383	62.428	66.280	69.850	74.500	79.759
120	45.943	49.403	52.070	55.431	59.403	62.430	66.355	69.855	74.510	79.801
121	45.950	49.549	52.169	55.490	59.410	62.500	66.403	69.910	74.643	79.852
122	45.980	49.577	52.205	55.549	59.4106	62.600	66.439	69.920	74.704	79.857
123	46.1651	49.606	52.2970	55.680	59.436	62.6095	66.4395	69.9463	74.754	
124	46.215	49.6216	52.3000	55.800	59.440	62.643	66.460	69.963	74.760	
125	46.220	49.660	52.3300	55.834	59.443	62.663	66.790	R70～	74.920	
126	46.258	49.670	52.3500	55.836	59.469	62.732	66.794	70.000	74.954	
127	46.2661	49.740	52.4000	55.838	59.510	62.873	66.800	70.015	R75～	
128	46.420	R50～	52.4050	55.8405	59.5404	62.8739	67.000	70.164	75.000	
129	46.340	50.000	52.4160	55.870	59.600	63.000	67.006	70.170	75.0191	
130	46.499	50.038	52.479	55.966	59.649	63.027	67.012	70.181	75.348	
131	46.500	50.120	52.480	56.015	59.661	63.274	67.160	70.3782	75.8575	
132	46.670	50.182	52.491	56.0999	59.6828	63.3001	67.162	70.440	75.860	
133	46.680	50.183	52.500	56.100	59.6981	63.327	67.300	70.500	75.870	
134	46.990	50.1894	52.568	56.200	59.759	63.690	67.604	70.770	75.871	
135	46.9915	50.447	52.700	56.205	59.850	63.701	67.678	71.000	75.888	
136	47.000	50.454	52.715	56.230	59.859	63.704	67.716	71.0258	75.933	
137	47.030	50.480	52.716	56.314	R60～	63.708	67.755	71.110	75.9333	
138	47.040	50.486	52.7302	56.4068	60.000	63.735	67.760	71.120	76.204	
139	47.100	50.545	52.908	56.459	60.020	63.800	67.761	71.170	76.4828	
140	47.237	50.880	53.154	56.660	60.075	63.917	68.020	71.2378	76.497	
141	47.239	50.886	53.163	56.670	60.170	63.917	68.228	71.270	76.800	
142	47.244	50.890	53.238	57.079	60.273	63.960	68.230	71.468	76.869	
143	47.3118	50.893	53.290	57.180	60.274	64.200	68.240	71.660	76.900	
144	47.420	50.8939	53.293	57.2912	60.430	64.243	68.320	71.730	77.080	
145	47.650	50.900	53.295	57.4104	60.600	64.257	68.432	71.830	77.179	
146	47.716	51.080	53.316	57.600	60.7771	64.310	68.435	71.960	77.230	
147	47.743	51.120	53.350	57.800	60.779	64.327	68.461	71.961	77.237	
148	47.774	51.1323	53.4668	57.861	60.794	64.840	68.550	72.000	77.248	
149	47.800	51.163	53.500	57.876	60.807	64.890	68.560	72.189	77.343	
150	47.8721	51.164	53.665	58.0608	61.000	64.905	68.569	72.248	77.398	

原器リストⅣ R80～

	a	b	c	d	e	f	g	h	i	j
101	R80～	86.406	91.060	95.170	101.670	R110～	117.400	126.940	143.588	R160～
102	80.000	86.609	91.167	95.200	102.148	110.085	117.450	126.950	143.850	160.020
103	80.100	86.614	91.174	95.220	102.678	110.180	117.640	127.000	143.990	160.200
104	80.110	86.625	91.252	95.329	102.700	110.233	117.641	127.5991	145.200	160.224
105	80.177	86.660	91.440	95.341	102.711	110.400	118.000	127.660	145.610	160.470
106	80.333	86.760	91.713	95.434	103.200	110.642	118.097	128.000	145.775	161.874
107	80.339	87.000	91.728	95.466	103.903	110.652	118.610	128.852	145.850	162.690
108	80.410	87.014	91.812	95.475	104.000	110.850	119.020	128.880	146.210	162.915
109	80.520	87.052	91.888	95.479	104.140	110.950	119.520	R130～	146.2852	163.490
110	80.683	87.471	92.075	95.596	104.148	110.962	119.524	130.048	146.690	163.500
111	80.760	87.500	92.100	95.600	104.450	111.077	119.830	130.200	148.000	164.230
112	80.800	87.500	92.200	95.900	104.480	111.530	119.998	130.275	148.140	164.420
113	81.166	87.540	92.225	95.916	104.560	111.808	R120～	130.474	148.329	165.000
114	81.3927	87.780	92.272	96.001	104.594	111.8083	120.000	131.128	148.336	165.050
115	81.410	87.799	92.300	96.582	104.600	111.811	120.188	131.270	148.656	165.0879
116	81.715	88.000	92.305	96.600	104.840	112.000	120.570	131.800	148.6561	166.700
117	81.752	88.010	92.335	96.617	105.000	112.430	120.600	131.812	149.210	166.719
118	81.782	88.250	92.596	96.682	105.160	112.468	120.7279	132.294	149.536	167.450
119	82.100	88.2509	92.900	96.720	105.230	112.509	120.7292	132.902	149.6012	167.910
120	82.125	88.261	92.960	96.917	105.400	112.600	120.760	132.9639	149.620	167.919
121	82.420	88.466	93.260	96.947	105.590	112.6413	120.930	133.890	R150～	168.000
122	82.560	88.589	93.492	97.190	105.730	113.000	121.1215	133.940	150.000	168.850
123	82.740	88.670	93.500	97.274	105.930	113.0037	121.1973	133.953	150.4804	169.399
124	82.794	88.900	93.523	97.297	106.000	113.080	121.412	133.980	151.560	169.438
125	83.310	89.000	93.526	97.8233	106.200	113.100	121.550	134.238	151.936	169.479
126	83.312	89.004	93.708	98.000	106.229	113.106	121.663	135.1046	152.347	169.608
127	83.363	89.100	93.832	98.166	106.250	113.116	121.687	135.550	152.384	169.792
128	83.497	89.103	94.062	98.167	106.261	113.375	121.700	136.570	152.400	169.857
129	83.536	89.182	94.080	98.200	106.436	113.830	121.770	137.083	153.2486	169.890
130	83.634	89.440	94.090	99.1348	106.600	113.850	121.894	137.128	153.300	169.918
131	83.769	89.462	94.120	99.314	106.690	114.010	122.000	137.631	153.500	169.961
132	83.835	89.463	94.230	99.339	106.748	115.000	122.174	137.650	153.570	
133	83.8872	89.474	94.234	99.3394	106.992	115.186	122.180	137.663	153.590	
134	83.890	89.5315	94.239	99.395	107.000	115.210	122.188	138.171	153.640	
135	84.125	89.720	94.310	99.395	107.120	115.465	122.758	138.684	155.000	
136	84.138	89.730	94.312	99.5292	107.384	115.530	122.930	139.500	155.155	
137	84.226	89.732	94.327	99.998	107.774	115.570	123.000	139.995	155.220	
138	84.232	89.900	94.346	R100～	107.950	115.700	123.122	R140～	155.770	
139	84.427	89.950	94.361	100.000	108.000	116.110	123.543	140.062	155.840	
140	84.600	89.960	94.590	100.076	108.090	116.112	123.730	140.120	156.000	
141	84.800	R90～	94.607	100.094	108.365	116.840	123.970	140.500	156.210	
142	84.960	90.011	94.691	100.293	108.560	116.870	124.000	140.8302	156.220	
143	R85～	90.164	94.712	100.355	108.776	116.996	124.255	141.250	156.480	
144	85.046	90.176	94.758	100.630	108.810	117.000	124.900	141.6834	156.500	
145	85.123	90.403	94.772	100.792	109.220	117.1424	125.000	141.900	157.000	
146	85.480	90.424	94.805	100.802	109.320	117.150	125.431	142.0961	158.405	
147	85.560	90.440	R95～	100.838	109.381	117.220	125.432	142.116	158.450	
148	85.794	90.500	95.000	101.110	109.399	117.234	126.000	142.857	158.974	
149	86.340	90.600	95.140	101.520	109.487	117.340	126.1764	142.9054	159.944	
150	86.347	91.011	95.152	101.520		117.3899	126.846	143.290		

原器リストV R170～

	a	b	c	d	e	f	g	h	i	j
101	R170～	188.818	220.190	260.000	R300～	R400～	665.165	2003.550		
102	170.008	188.976	220.190	262.000	300.000	406.639	669.6752	2005.000		
103	170.500	189.289	220.192	262.405	301.700	406.900	679.740	2080.000		
104	171.584	189.796	220.8823	262.8807	302.760	415.798	685.400	2080.800		
105	172.123	R190～	220.990	263.220	305.000	419.778	690.690	2454.511		
106	172.524	191.560	221.000	263.742	306.000	423.400	693.420	5230.000		
107	172.529	191.770	221.020	264.050	314.710	424.000	698.750	6150.00		
108	172.706	192.626	221.132	265.000	314.728	452.100	R700～	8510.52		
109	173.130	192.700	221.2665	265.019	316.621	457.275	711.240	13340.0		
110	173.228	194.058	222.600	266.627	318.283	462.500	733.650			
111	173.3627	195.200	223.930	266.727	319.000	463.710	760.983			
112	173.490	195.466	224.466	267.000	321.336	465.885	761.882			
113	173.730	195.5453	228.300	269.131	327.978	466.680	762.100			
114	173.780	195.580	228.990	272.000	332.460	475.290	771.500			
115	174.259	195.904	229.8226	272.897	338.630	483.000	774.800			
116	175.006	195.960	230.984	274.347	338.673	486.962	R800～			
117	176.000	198.017	231.140	275.464	339.3457	487.413	800.000			
118	176.735	198.2963	231.217	275.590	339.471	492.232	813.900			
119	176.800	199.570	231.568	275.615	341.930	494.600	832.674			
120	177.155	R200～	231.600	276.893	343.5201	R500～	886.517			
121	177.228	200.880	233.400	277.181	316.230	500.000	891.550			
122	177.5187	201.743	233.419	277.585	346.450	501.7847	891.550			
123	177.750	202.449	235.857	277.810	346.690	502.387	899.280			
124	177.830	202.900	236.878	278.345	349.5053	514.000	905.357			
125	178.000	203.0356	237.140	278.530	350.000	519.637	912.707			
126	178.500	203.155	239.947	278.600	352.955	519.930	912.710			
127	178.835	203.918	240.000	280.869	352.980	519.938	921.710			
128	179.100	204.000	240.454	280.957	352.981	521.766	968.7079			
129	R180～	204.980	243.9867	281.000	353.500	523.300	999.500			
130	180.000	205.095	244.590	281.076	353.850	527.935	R1000～			
131	181.200	205.350	244.850	283.720	354.656	536.917	1000.000			
132	182.0666	205.368	245.100	284.000	356.786	547.750	1023.758			
133	182.084	206.930	246.500	289.921	358.759	553.720	1040.100			
134	182.400	207.370	247.270	290.000	359.660	558.780	1084.660			
135	183.000	207.770	247.490	290.110	361.485	565.225	1108.146			
136	183.147	207.772	247.731	292.511	362.660	568.900	1115.034			
137	183.197	208.230	248.160	292.940	364.590	570.490	1127.395			
138	183.2474	209.050	249.390	294.640	367.400	581.436	1215.840			
139	183.525	209.548	249.901	295.510	380.000	594.060	1251.700			
140	183.800	209.830	R250～	296.440	380.190	R600～	1254.700			
141	184.340	210.000	250.000	297.000	381.000	600.000	1265.023			
142	184.910	211.000	250.085	297.180	385.316	603.896	1341.180			
143	185.795	211.023	250.300	297.500	386.217	605.036	1378.190			
144	185.853	212.400	253.980	297.510	387.516	622.800	1534.000			
145	186.000	215.000	254.292	297.852	388.4505	623.199	1626.000			
146	186.766	215.265	255.300	297.876	389.790	626.872	1652.000			
147	187.787	216.120	256.000	299.580	390.196	627.027	1850.000			
148	187.910	216.760	256.540		392.420	627.372	1889.129			
149	188.024	218.500	257.040		392.970	631.638	1921.200			
150	188.679	220.010	259.842		394.603	651.078	1971.198			