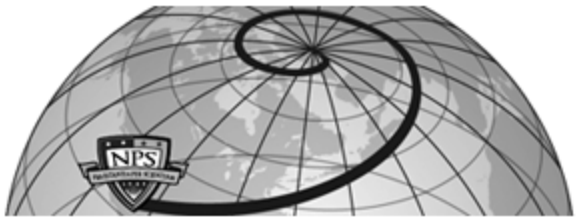
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(4) THEORETICAL INVESTIGATIONS OF THE PROPERTIES OF OBLIQUE DETONATION WAVES.

(9) Master's thesis,

by

(11) 1962, (10) Philip F. Gibber.

APPENDICES G, H, and I.

(12) 234p.

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APPENDIX G

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PROPERTIES OF AN OBLIQUE DETONATION WAVE

GAMMA = 1.4

M1	M1•	DELMAX	DEL	XMIN	XMAX	X(M2U•)	Y(M2V•)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.5	1.3646	1.0487	1.00	.7328	1.3646	.7400	.0498	.7088	.7104	3.8469	85.4450	2.4418	.9313	1.3171
1.5	1.3646	1.0487	1.00	.7328	1.3646	.7700	.1093	.7413	.7487	8.0791	79.5837	2.3725	.9374	1.3038
1.5	1.3646	1.0487	1.00	.7328	1.3646	.8000	.1415	.7741	.7861	10.0276	75.9337	2.3033	.9434	1.2905
1.5	1.3646	1.0487	1.00	.7328	1.3646	.8300	.1634	.8074	.8229	11.1377	73.0030	2.2340	.9492	1.2771
1.5	1.3646	1.0487	1.00	.7328	1.3646	.8600	.1790	.8410	.8590	11.7607	70.4630	2.1648	.9547	1.2635
1.5	1.3646	1.0487	1.00	.7328	1.3646	.8900	.1901	.8751	.8948	12.0544	68.1750	2.0955	.9600	1.2498
1.5	1.3646	1.0487	1.00	.7328	1.3646	.9200	.1973	.9096	.9303	12.1064	66.0646	2.0263	.9651	1.2360
1.5	1.3646	1.0487	1.00	.7328	1.3646	.9500	.2014	.9446	.9656	11.9711	64.0866	1.9570	.9699	1.2221
1.5	1.3646	1.0487	1.00	.7328	1.3646	.9800	.2027	.9801	1.0009	11.6845	62.2108	1.8878	.9744	1.2080
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.0100	.2013	1.0162	1.0362	11.2717	60.4157	1.8185	.9786	1.1937
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.0400	.1975	1.0528	1.0716	10.7504	58.6855	1.7493	.9824	1.1792
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.0700	.1912	1.0900	1.1072	10.1336	57.0079	1.6800	.9859	1.1645
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.1000	.1827	1.1278	1.1432	9.4304	55.3729	1.6108	.9891	1.1495
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.1300	.1719	1.1663	1.1797	8.6476	53.7726	1.5415	.9918	1.1343
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.1600	.1587	1.2056	1.2168	7.7896	52.2002	1.4722	.9941	1.1187
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.1900	.1431	1.2456	1.2546	6.8592	50.6496	1.4030	.9961	1.1028
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.2200	.1252	1.2866	1.2933	5.8578	49.1156	1.3337	.9976	1.0865
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.2500	.1046	1.3285	1.3331	4.7855	47.5935	1.2645	.9987	1.0697
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.2800	.0815	1.3715	1.3743	3.6410	46.0786	1.1952	.9994	1.0525
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.3100	.0554	1.4158	1.4170	2.4220	44.5668	1.1260	.9998	1.0345
1.5	1.3646	1.0487	1.00	.7328	1.3646	1.3400	.0263	1.4614	1.4617	1.1246	43.0537	1.0567	1.0000	1.0159
1.5	1.3646	1.0487	1.04	.8787	1.1380	.8800	.0124	.8608	.8609	.8076	88.4488	2.0373	.9003	1.3659
1.5	1.3646	1.0487	1.04	.8787	1.1380	.9100	.0568	.8950	.8968	3.5725	82.4399	1.9653	.9023	1.3510
1.5	1.3646	1.0487	1.04	.8787	1.1380	.9400	.0725	.9297	.9325	4.4122	79.6740	1.8933	.9040	1.3360
1.5	1.3646	1.0487	1.04	.8787	1.1380	.9700	.0796	.9649	.9682	4.6907	77.7987	1.8213	.9052	1.3207
1.5	1.3646	1.0487	1.04	.8787	1.1380	1.0000	.0809	1.0007	1.0039	4.6251	76.5427	1.7493	.9061	1.3052
1.5	1.3646	1.0487	1.04	.8787	1.1380	1.0300	.0775	1.0370	1.0399	4.3009	75.8863	1.6772	.9066	1.2894
1.5	1.3646	1.0487	1.04	.8787	1.1380	1.0600	.0695	1.0739	1.0762	3.7510	75.9686	1.6052	.9066	1.2734
1.5	1.3646	1.0487	1.04	.8787	1.1380	1.0900	.0564	1.1115	1.1130	2.9620	77.1915	1.5332	.9062	1.2569
1.5	1.3646	1.0487	1.04	.8787	1.1380	1.1200	.0351	1.1498	1.1503	1.7939	80.8621	1.4612	.9053	1.2401

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

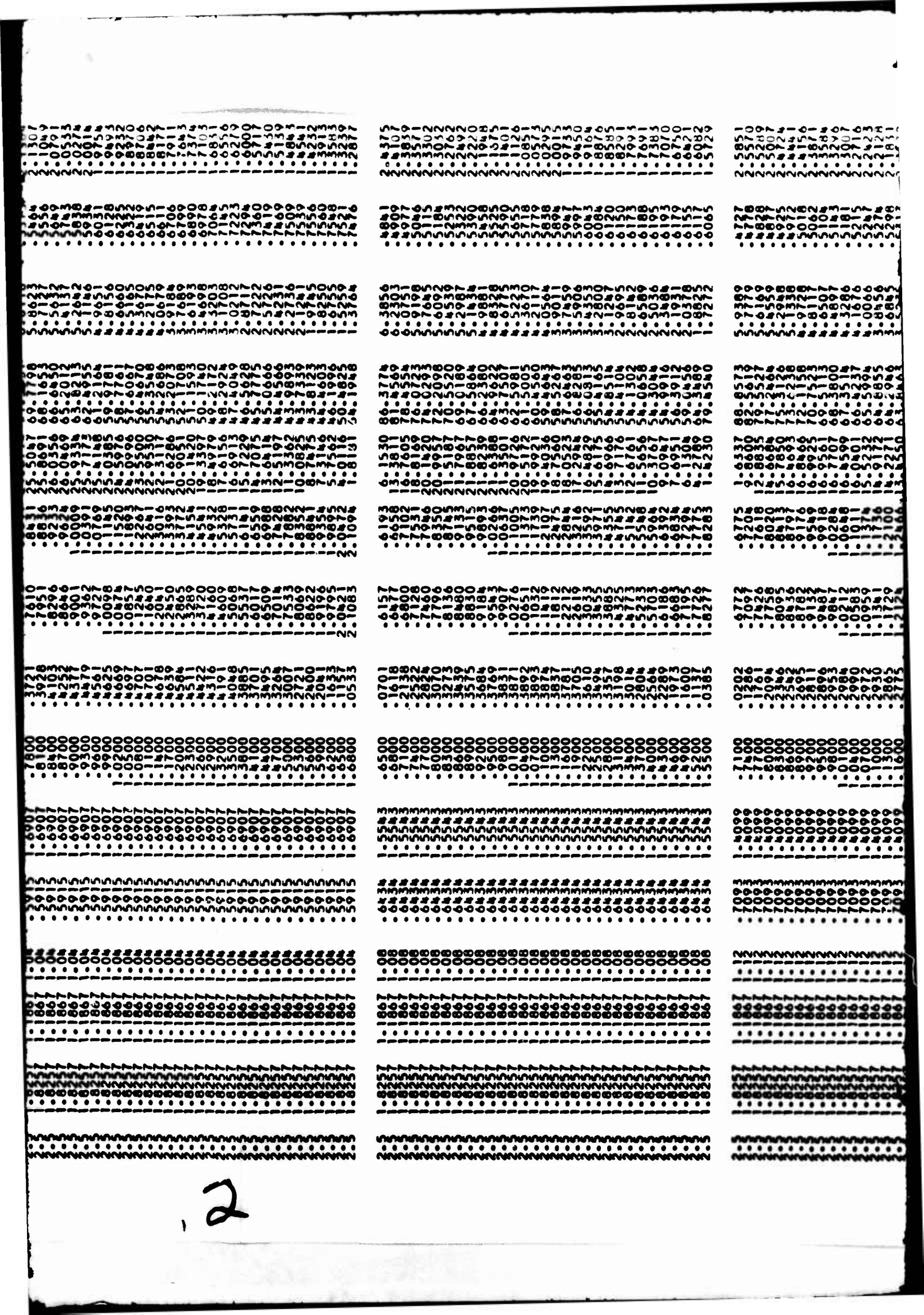
M1	M1•	DELMAX	DEL	XMIN	XMAX	X(M2U•)	Y(M2V•)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
2.0	1.6330	1.1227	1.00	.6124	1.6330	.6200	.0761	.5853	.5897	6.9934	85.7064	4.4738	.7235	1.6829
2.0	1.6330	1.1227	1.00	.6124	1.6330	.6500	.1658	.6170	.6367	14.3067	80.4282	4.3710	.7339	1.6650
2.0	1.6330	1.1227	1.00	.6124	1.6330	.6800	.2179	.6489	.6815	17.7700	77.1191	4.2681	.7443	1.6470
2.0	1.6330	1.1227	1.00	.6124	1.6330	.7100	.2566	.6813	.7244	19.8700	74.4639	4.1652	.7549	1.6290
2.0	1.6330	1.1227	1.00	.6124	1.6330	.7400	.2873	.7141	.7660	21.2169	72.1669	4.0623	.7656	1.6110
2.0	1.6330	1.1227	1.00	.6124	1.6330	.7700	.3124	.7472	.8064	22.0805	70.1024	3.9595	.7763	1.5929
2.0	1.6330	1.1227	1.00	.6124	1.6330	.8000	.3331	.7808	.8458	22.6070	68.2031	3.8566	.7870	1.5747
2.0	1.6330	1.1227	1.00	.6124	1.6330	.8300	.3504	.8148	.8844	22.8853	66.4279	3.7537	.7979	1.5565
2.0	1.6330	1.1227	1.00	.6124	1.6330	.8600	.3646	.8492	.9224	22.9734	64.7495	3.6508	.8087	1.5382
2.0	1.6330	1.1227	1.00	.6124	1.6330	.8900	.3762	.8841	.9599	22.9109	63.1486	3.5479	.8196	1.5199
2.0	1.6330	1.1227	1.00	.6124	1.6330	.9200	.3853	.9195	.9969	22.7262	61.6109	3.4451	.8305	1.5015
2.0	1.6330	1.1227	1.00	.6124	1.6330	.9500	.3923	.9554	1.0337	22.4398	60.1256	3.3422	.8413	1.4831
2.0	1.6330	1.1227	1.00	.6124	1.6330	.9800	.3973	.9918	1.0702	22.0669	58.6839	3.2393	.8521	1.4645
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.0100	.4003	1.0287	1.1066	21.6192	57.2789	3.1364	.8629	1.4459
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.0400	.4014	1.0662	1.1429	21.1055	55.9047	3.0335	.8735	1.4272
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.0700	.4007	1.1043	1.1792	20.5323	54.5564	2.9307	.8841	1.4084
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.1000	.3983	1.1429	1.2156	19.9048	53.2297	2.8278	.8944	1.3894
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.1300	.3941	1.1823	1.2521	19.2267	51.9210	2.7249	.9046	1.3703
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.1600	.3881	1.2222	1.2888	18.5008	50.6269	2.6220	.9145	1.3511
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.1900	.3804	1.2629	1.3259	17.7289	49.3443	2.5192	.9242	1.3317
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.2200	.3709	1.3044	1.3633	16.9120	48.0705	2.4163	.9336	1.3122
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.2500	.3596	1.3466	1.4013	16.0504	46.8027	2.3134	.9425	1.2925
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.2800	.3464	1.3897	1.4397	15.1438	45.5384	2.2105	.9511	1.2725
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.3100	.3313	1.4337	1.4789	14.1914	44.2752	2.1076	.9591	1.2522
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.3400	.3141	1.4787	1.5188	13.1914	43.0105	2.0048	.9666	1.2317
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.3700	.2947	1.5248	1.5597	12.1415	41.7420	1.9019	.9735	1.2109
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4000	.2731	1.5721	1.6017	11.0389	40.4670	1.7990	.9797	1.1896
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4300	.2490	1.6206	1.6450	9.8794	39.1829	1.6961	.9852	1.1679
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4600	.2223	1.6706	1.6898	8.6583	37.8868	1.5932	.9898	1.1457
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4900	.1927	1.7222	1.7365	7.3695	36.5757	1.4904	.9936	1.1228
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.5200	.1599	1.7756	1.7854	6.0055	35.2461	1.3875	.9964	1.0992
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.5500	.1235	1.8312	1.8370	4.5568	33.8943	1.2846	.9984	1.0747
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.5800	.0831	1.8894	1.8920	3.0118	32.5159	1.1817	.9995	1.0490
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.6100	.0381	1.9506	1.9511	1.3559	31.1058	1.0789	1.0000	1.0219
2.0	1.6330	1.1227	1.04	.6729	1.4861	.6800	.0647	.6464	.6493	5.4348	85.9831	4.1748	.7083	1.7955
2.0	1.6330	1.1227	1.04	.6729	1.4861	.7100	.1444	.6785	.6924	11.4985	80.7953	4.0678	.7163	1.7765
2.0	1.6330	1.1227	1.04	.6729	1.4861	.7400	.1895	.7110	.7339	14.3642	77.5910	3.9608	.7242	1.7575
2.0	1.6330	1.1227	1.04	.6729	1.4861	.7700	.2222	.7438	.7742	16.0941	75.0372	3.8538	.7320	1.7385
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8000	.2474	.7771	.8134	17.1843	72.8416	3.7468	.7398	1.7194
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8300	.2674	.8108	.8518	17.8550	70.8813	3.6398	.7475	1.7002
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8600	.2832	.8449	.8895	18.2268	69.0911	3.5328	.7551	1.6809
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8900	.2956	.8795	.9267	18.3739	67.4319	3.4259	.7625	1.6615
2.0	1.6330	1.1227	1.04	.6729	1.4861	.9200	.3051	.9145	.9634	18.3450	65.8783	3.3189	.7698	1.6420
2.0	1.6330	1.1227	1.04	.6729	1.4861	.9500	.3119	.9500	.9999	18.1736	64.4131	3.2119	.7769	1.6225
2.0	1.6330	1.1227	1.04	.6729	1.4861	.9800	.3162	.9860	1.0360	17.8838	63.0244	3.1049	.7838	1.6028
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.0100	.3183	1.0225	1.0721	17.4931	61.7042	2.9979	.7904	1.5830
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.0400	.3182	1.0596	1.1081	17.0142	60.4472	2.8909	.7968	1.5631
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.0700	.3161	1.0972	1.1441	16.4568	59.2507	2.7839	.8029	1.5430
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1000	.3118	1.1354	1.1802	15.8278	58.1144	2.6769	.8086	1.5227
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1300	.3056	1.1743	1.2165	15.1324	57.0403	2.5699	.8139	1.5023
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1600	.2973	1.2139	1.2531	14.3738	56.0336	2.4629	.8187	1.4816
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1900	.2869	1.2541	1.2901	13.5541	55.1029	2.3559	.8231	1.4607
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.2200	.2744	1.2952	1.3275	12.6740	54.2625	2.2489	.8269	1.4395
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.2500	.2596	1.3371	1.3656	11.7329	53.5341	2.1419	.8302	1.4180
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.2800	.2425	1.3798	1.4044	10.7290	52.9517	2.0349	.8327	1.3962
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.3100	.2229	1.4235	1.4440	9.6585	52.5697	1.9279	.8346	1.3739
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.3400	.2006	1.4683	1.4847	8.5158	52.4789	1.8209	.8357	1.3512
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.3700	.1753	1.5143	1.5267	7.2913	52.6411	1.7140	.8359	1.3279
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.4000	.1464	1.5616	1.5701	5.9687	53.9751	1.6070	.8353	1.3039
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.4300	.1129	1.6104	1.6154	4.5135	56.6130	1.5000	.8337	1.2792
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.4600	.0720	1.6610	1.6630	2.8214	63.0106	1.3930	.8312	1.2535
2.0	1.6330	1.1227	1.08	.7556	1.3234	.7600	.0417	.7299	.7310	3.1436	87.0550	3.7852	.6902	1.8968
2.0	1.6330	1.1227	1.08	.7556	1.3234	.7900	.1130	.7628	.7706	8.1410	81.7701	3.6741	.6955	1.8767
2.0	1.6330	1.1227	1.08	.7556	1.3234	.8200	.1492	.7961	.8091	10.3155	78.7650	3.5630	.7005	1.8564
2.0	1.6330	1.1227	1.08	.7556	1.3234	.8500	.1740	.8297	.8469	11.5695	76.4379	3.4519	.7053	1.8361
2.0	1.6330	1.1227	1.08	.7556	1.3234	.8800	.1919	.8638	.8841	12.2994	74.4898	3.3408	.7099	1.8157
2.0	1.6330	1.1227	1.08	.7556	1.3234	.9100	.2047	.8984	.9208	12.6775	72.8015	3.2297	.7142	1.7951
2.0	1.6330	1.1227	1.08	.7556	1.3234	.9400	.2135	.9334	.9577	12.7978	71.3143	3.1186	.7182	1.7744

2.0	1.6330	1.1227	1.00	.6124	1.6330	1.1900	.3804	1.2629	1.3259	17.7289	49.3443	2.5192	.9242	1.3317
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.2200	.3709	1.3044	1.3633	16.9120	48.0705	2.4163	.9336	1.3122
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.2500	.3596	1.3466	1.4013	16.0504	46.8027	2.3134	.9425	1.2925
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.2800	.3464	1.3897	1.4397	15.1438	45.5384	2.2105	.9511	1.2725
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.3100	.3313	1.4337	1.4789	14.1914	44.2752	2.1076	.9591	1.2522
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.3400	.3141	1.4787	1.5188	13.1914	43.0105	2.0048	.9666	1.2317
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.3700	.2947	1.5248	1.5597	12.1415	41.7420	1.9019	.9735	1.2109
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4000	.2731	1.5721	1.6017	11.0389	40.4670	1.7990	.9797	1.1896
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4300	.2490	1.6206	1.6450	9.8794	39.1829	1.6961	.9852	1.1679
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4600	.2223	1.6706	1.6898	8.6583	37.8868	1.5932	.9898	1.1457
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.4900	.1927	1.7222	1.7365	7.3695	36.5757	1.4904	.9936	1.1228
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.5200	.1599	1.7756	1.7854	6.0055	35.2461	1.3875	.9964	1.0992
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.5500	.1235	1.8312	1.8370	4.5568	33.8943	1.2846	.9984	1.0747
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.5800	.0831	1.8894	1.8920	3.0118	32.5159	1.1817	.9995	1.0490
2.0	1.6330	1.1227	1.00	.6124	1.6330	1.6100	.0381	1.9506	1.9511	1.3559	31.1058	1.0789	1.0000	1.0219
2.0	1.6330	1.1227	1.04	.6729	1.4861	.6800	.0647	.6464	.6493	5.4348	85.9831	4.1748	.7083	1.7955
2.0	1.6330	1.1227	1.04	.6729	1.4861	.7100	.1444	.6785	.6924	11.4985	80.7953	4.0678	.7163	1.7765
2.0	1.6330	1.1227	1.04	.6729	1.4861	.7400	.1895	.7110	.7339	14.3642	77.5910	3.9608	.7242	1.7575
2.0	1.6330	1.1227	1.04	.6729	1.4861	.7700	.2222	.7438	.7742	16.0941	75.0372	3.8538	.7320	1.7385
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8000	.2474	.7771	.8134	17.1843	72.8416	3.7468	.7398	1.7194
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8300	.2674	.8108	.8518	17.8550	70.8813	3.6398	.7475	1.7002
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8600	.2832	.8449	.8895	18.2268	69.0911	3.5328	.7551	1.6809
2.0	1.6330	1.1227	1.04	.6729	1.4861	.8900	.2956	.8795	.9267	18.3739	67.4319	3.4259	.7625	1.6615
2.0	1.6330	1.1227	1.04	.6729	1.4861	.9200	.3051	.9145	.9634	18.3450	65.8783	3.3189	.7698	1.6420
2.0	1.6330	1.1227	1.04	.6729	1.4861	.9500	.3119	.9500	.9999	18.1736	64.4131	3.2119	.7769	1.6225
2.0	1.6330	1.1227	1.04	.6729	1.4861	.9800	.3162	.9860	1.0360	17.8838	63.0244	3.1049	.7838	1.6028
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.0100	.3183	1.0225	1.0721	17.4931	61.7042	2.9979	.7904	1.5830
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.0400	.3182	1.0596	1.1081	17.0142	60.4472	2.8909	.7968	1.5631
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.0700	.3161	1.0972	1.1441	16.4568	59.2507	2.7839	.8029	1.5430
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1000	.3118	1.1354	1.1802	15.8278	58.1144	2.6769	.8086	1.5227
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1300	.3056	1.1743	1.2165	15.1324	57.0403	2.5699	.8139	1.5023
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1600	.2973	1.2139	1.2531	14.3738	56.0336	2.4629	.8187	1.4816
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.1900	.2869	1.2541	1.2901	13.5541	55.1029	2.3559	.8231	1.4607
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.2200	.2744	1.2952	1.3275	12.6740	54.2625	2.2489	.8269	1.4395
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.2500	.2596	1.3371	1.3656	11.7329	53.5341	2.1419	.8302	1.4180
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.2800	.2425	1.3798	1.4044	10.7290	52.9517	2.0349	.8327	1.3962
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.3100	.2229	1.4235	1.4440	9.6585	52.5697	1.9279	.8346	1.3739
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.3400	.2006	1.4683	1.4847	8.5158	52.4789	1.8209	.8357	1.3512
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.3700	.1753	1.5143	1.5267	7.2913	52.6411	1.7140	.8359	1.3279
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.4000	.1464	1.5616	1.5701	5.9687	53.9751	1.6070	.8353	1.3039
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.4300	.1129	1.6104	1.6154	4.5135	56.6130	1.5000	.8337	1.2792
2.0	1.6330	1.1227	1.04	.6729	1.4861	1.4600	.0720	1.6610	1.6630	2.8214	63.0106	1.3930	.8312	1.2535
2.0	1.6330	1.1227	1.08	.7556	1.3234	.7600	.0417	.7299	.7310	3.1436	87.0550	3.7852	.6902	1.8968
2.0	1.6330	1.1227	1.08	.7556	1.3234	.7900	.1130	.7628	.7706	8.1410	81.7701	3.6741	.6955	1.8767
2.0	1.6330	1.1227	1.08	.7556	1.3234	.8200	.1492	.7961	.8091	10.3155	78.7650	3.5630	.7005	1.8564
2.0	1.6330	1.1227	1.08	.7556	1.3234	.8500	.1740	.8297	.8469	11.5695	76.4379	3.4519	.7053	1.8361
2.0	1.6330	1.1227	1.08	.7556	1.3234	.8800	.1919	.8638	.8841	12.2994	74.4898	3.3408	.7099	1.8157
2.0	1.6330	1.1227	1.08	.7556	1.3234	.9100	.2047	.8984	.9208	12.6775	72.8015	3.2297	.7142	1.7951
2.0	1.6330	1.1227	1.08	.7556	1.3234	.9400	.2135	.9334	.9572	12.7978	71.3143	3.1186	.7182	1.7744
2.0	1.6330	1.1227	1.08	.7556	1.3234	.9700	.2189	.9689	.9933	12.7174	69.9970	3.0075	.7219	1.7535
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.0000	.2212	1.0049	1.0292	12.4738	68.8346	2.8964	.7252	1.7325
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.0300	.2207	1.0415	1.0651	12.0921	67.8232	2.7853	.7282	1.7113
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.0600	.2174	1.0786	1.1010	11.5893	66.9690	2.6742	.7307	1.6898
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.0900	.2114	1.1163	1.1371	10.9766	66.2885	2.5630	.7327	1.6681
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.1200	.2027	1.1546	1.1734	10.2602	65.8116	2.4519	.7342	1.6462
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.1500	.1912	1.1937	1.2101	9.4419	65.5873	2.3408	.7351	1.6240
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.1800	.1767	1.2334	1.2472	8.5182	65.6957	2.2297	.7354	1.6014
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.2100	.1588	1.2739	1.2849	7.4784	66.2715	2.1186	.7350	1.5784
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.2400	.1368	1.3153	1.3233	6.2977	67.5595	2.0075	.7339	1.5549
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.2700	.1093	1.3577	1.3627	4.9179	70.0680	1.8964	.7320	1.5310
2.0	1.6330	1.1227	1.08	.7556	1.3234	1.3000	.0716	1.4010	1.4032	3.1540	75.2118	1.7853	.7293	1.5064
2.0	1.6330	1.1227	1.12	.9331	1.0717	.9400	.0239	.9293	.9296	1.4541	87.7340	2.9896	.6676	1.9252
2.0	1.6330	1.1227	1.12	.9331	1.0717	.9700	.0481	.9645	.9657	2.8363	85.2061	2.8744	.6684	1.9030
2.0	1.6330	1.1227	1.12	.9331	1.0717	1.0000	.0537	1.0003	1.0017	3.0721	84.3556	2.7592	.6689	1.8805
2.0	1.6330	1.1227	1.12	.9331	1.0717	1.0300	.0486	1.0366	1.0377	2.7002	84.5910	2.6440	.6688	1.8578
2.0	1.6330	1.1227	1.12	.9331	1.0717	1.0600	.0290	1.0734	1.0738	1.5647	86.5697	2.5288	.6682	1.8348

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
2.5	1.8257	1.1867	1.00	.5477	1.8257	.5500	.0494	.5153	.5174	5.1319	87.7827	7.1141	.4998	2.1356
2.5	1.8257	1.1867	1.00	.5477	1.8257	.5800	.1834	.5466	.5733	17.5475	81.6249	6.9703	.5098	2.1112
2.5	1.8257	1.1867	1.00	.5477	1.8257	.6100	.2512	.5782	.6253	22.3789	78.3274	6.8265	.5200	2.0868
2.5	1.8257	1.1867	1.00	.5477	1.8257	.6400	.3015	.6102	.6745	25.2100	75.7429	6.6828	.5305	2.0624
2.5	1.8257	1.1867	1.00	.5477	1.8257	.6700	.3417	.6427	.7214	27.0191	73.5312	6.5390	.5412	2.0379
2.5	1.8257	1.1867	1.00	.5477	1.8257	.7000	.3754	.6755	.7665	28.2058	71.5568	6.3952	.5522	2.0134
2.5	1.8257	1.1867	1.00	.5477	1.8257	.7300	.4043	.7088	.8102	28.9766	69.7493	6.2514	.5634	1.9889
2.5	1.8257	1.1867	1.00	.5477	1.8257	.7600	.4291	.7425	.8527	29.4520	68.0667	6.1076	.5749	1.9643
2.5	1.8257	1.1867	1.00	.5477	1.8257	.7900	.4508	.7767	.8942	29.7082	66.4812	5.9639	.5867	1.9398
2.5	1.8257	1.1867	1.00	.5477	1.8257	.8200	.4695	.8114	.9350	29.7964	64.9736	5.8201	.5987	1.9152
2.5	1.8257	1.1867	1.00	.5477	1.8257	.8500	.4859	.8465	.9750	29.7519	63.5298	5.6763	.6110	1.8905
2.5	1.8257	1.1867	1.00	.5477	1.8257	.8800	.4999	.8821	1.0146	29.6005	62.1391	5.5325	.6235	1.8659
2.5	1.8257	1.1867	1.00	.5477	1.8257	.9100	.5119	.9183	1.0537	29.3609	60.7929	5.3888	.6363	1.8412
2.5	1.8257	1.1867	1.00	.5477	1.8257	.9400	.5221	.9550	1.0924	29.0472	59.4846	5.2450	.6493	1.8164
2.5	1.8257	1.1867	1.00	.5477	1.8257	.9700	.5304	.9923	1.1310	28.6703	58.2086	5.1012	.6626	1.7917
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.0000	.5371	1.0302	1.1693	28.2385	56.9602	4.9574	.6762	1.7668
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.0300	.5421	1.0686	1.2076	27.7582	55.7355	4.8137	.6900	1.7420
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.0600	.5456	1.1077	1.2458	27.2345	54.5311	4.6699	.7040	1.7170
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.0900	.5475	1.1474	1.2840	26.6713	53.3440	4.5261	.7183	1.6920
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.1200	.5480	1.1878	1.3224	26.0716	52.1714	4.3823	.7327	1.6670
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.1500	.5470	1.2289	1.3609	25.4378	51.0110	4.2385	.7474	1.6419
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.1800	.5445	1.2708	1.3996	24.7716	49.8605	4.0948	.7622	1.6167
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.2100	.5406	1.3134	1.4385	24.0741	48.7179	3.9510	.7772	1.5914
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.2400	.5352	1.3568	1.4778	23.3460	47.5812	3.8072	.7922	1.5660
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.2700	.5283	1.4011	1.5175	22.5877	46.4485	3.6634	.8074	1.5405
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.3000	.5199	1.4463	1.5577	21.7990	45.3182	3.5197	.8226	1.5149
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.3300	.5100	1.4924	1.5984	20.9794	44.1883	3.3759	.8378	1.4891
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.3600	.4984	1.5395	1.6397	20.1282	43.0572	3.2321	.8529	1.4632
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.3900	.4853	1.5877	1.6816	19.2442	41.9230	3.0883	.8679	1.4372
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.4200	.4703	1.6370	1.7244	18.3256	40.7839	2.9445	.8826	1.4109
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.4500	.4536	1.6875	1.7681	17.3704	39.6381	2.8008	.8971	1.3844
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.4800	.4349	1.7393	1.8128	16.3760	38.4836	2.6570	.9112	1.3577
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.5100	.4142	1.7925	1.8587	15.3392	37.3181	2.5132	.9248	1.3306
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.5400	.3913	1.8472	1.9059	14.2561	36.1395	2.3694	.9377	1.3032
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.5700	.3660	1.9036	1.9546	13.1219	34.9452	2.2257	.9499	1.2754
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.6000	.3381	1.9618	2.0052	11.9309	33.7323	2.0819	.9611	1.2471
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.6300	.3073	2.0222	2.0578	10.6759	32.4977	1.9381	.9712	1.2183
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.6600	.2733	2.0849	2.1129	9.3481	31.2378	1.7943	.9800	1.1886
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.6900	.2356	2.1503	2.1711	7.9364	29.9483	1.6506	.9873	1.1581
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.7200	.1937	2.2190	2.2330	6.4270	28.6242	1.5068	.9930	1.1265
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.7500	.1470	2.2916	2.2997	4.8017	27.2594	1.3630	.9970	1.0935
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.7800	.0944	2.3690	2.3724	3.0366	25.8467	1.2192	.9992	1.0585
2.5	1.8257	1.1867	1.00	.5477	1.8257	1.8100	.0347	2.4528	2.4533	1.0996	24.3765	1.0754	1.0000	1.0210
2.5	1.8257	1.1867	1.04	.5915	1.6907	.6000	.0880	.5653	.5714	8.3411	85.7732	6.7594	.4936	2.2844
2.5	1.8257	1.1867	1.04	.5915	1.6907	.6300	.1839	.5969	.6219	16.2764	80.9917	6.6099	.5021	2.2589
2.5	1.8257	1.1867	1.04	.5915	1.6907	.6600	.2413	.6289	.6696	20.0789	77.9515	6.4604	.5107	2.2333
2.5	1.8257	1.1867	1.04	.5915	1.6907	.6900	.2843	.6613	.7153	22.3952	75.5110	6.3109	.5194	2.2077
2.5	1.8257	1.1867	1.04	.5915	1.6907	.7200	.3190	.6941	.7592	23.8964	73.4030	6.1613	.5283	2.1821
2.5	1.8257	1.1867	1.04	.5915	1.6907	.7500	.3478	.7273	.8017	24.8794	71.5131	6.0118	.5375	2.1564
2.5	1.8257	1.1867	1.04	.5915	1.6907	.7800	.3721	.7610	.8431	25.5047	69.7798	5.8623	.5468	2.1307
2.5	1.8257	1.1867	1.04	.5915	1.6907	.8100	.3928	.7951	.8836	25.8691	68.1653	5.7127	.5564	2.1049
2.5	1.8257	1.1867	1.04	.5915	1.6907	.8400	.4103	.8296	.9233	26.0356	66.6450	5.5632	.5661	2.0791
2.5	1.8257	1.1867	1.04	.5915	1.6907	.8700	.4252	.8646	.9624	26.0469	65.2012	5.4137	.5763	2.0533
2.5	1.8257	1.1867	1.04	.5915	1.6907	.9000	.4377	.9001	1.0009	25.9334	63.8213	5.2642	.5838	2.0274
2.5	1.8257	1.1867	1.04	.5915	1.6907	.9300	.4479	.9362	1.0391	25.7173	62.4955	5.1146	.5934	2.0014
2.5	1.8257	1.1867	1.04	.5915	1.6907	.9600	.4561	.9727	1.0769	25.4148	61.2164	4.9651	.6031	1.9754
2.5	1.8257	1.1867	1.04	.5915	1.6907	.9900	.4625	1.0098	1.1145	25.0385	59.9781	4.8156	.6128	1.9493
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.0200	.4669	1.0474	1.1520	24.5976	58.7761	4.6660	.6225	1.9232
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.0500	.4697	1.0857	1.1893	24.0996	57.6067	4.5165	.6322	1.8970
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.0800	.4707	1.1245	1.2267	23.5500	56.4670	4.3670	.6419	1.8706
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.1100	.4701	1.1640	1.2641	22.9530	55.3548	4.2175	.6515	1.8442
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.1400	.4678	1.2041	1.3016	22.3117	54.2686	4.0679	.6611	1.8177
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.1700	.4639	1.2450	1.3393	21.6286	53.2073	3.9184	.6706	1.7911
2.5	1.8257	1.1867	1.04	.5915	1.6907	1.2000	.4584	1.2865	1.3772	20.9051	52.1708			



2

2.5	1.8257	1.1867	1.08	.6434	1.5543	.7400	.2522	.7128	.7531	18.8169	76.0723	5.9198	.5046	2.3571
2.5	1.8257	1.1867	1.08	.6434	1.5543	.7700	.2824	.7460	.7946	20.1420	74.0293	5.7645	.5115	2.3302
2.5	1.8257	1.1867	1.08	.6434	1.5543	.8000	.3070	.7796	.8350	20.9957	72.2098	5.6092	.5184	2.3032
2.5	1.8257	1.1867	1.08	.6434	1.5543	.8300	.3273	.8136	.8745	21.5187	70.5520	5.4539	.5253	2.2762
2.5	1.8257	1.1867	1.08	.6434	1.5543	.8600	.3439	.8480	.9133	21.7967	69.0189	5.2987	.5322	2.2492
2.5	1.8257	1.1867	1.08	.6434	1.5543	.8900	.3575	.8830	.9515	21.8857	67.5864	5.1434	.5390	2.2220
2.5	1.8257	1.1867	1.08	.6434	1.5543	.9200	.3684	.9184	.9893	21.8239	66.2380	4.9881	.5458	2.1948
2.5	1.8257	1.1867	1.08	.6434	1.5543	.9500	.3769	.9543	1.0266	21.6388	64.9622	4.8328	.5525	2.1675
2.5	1.8257	1.1867	1.08	.6434	1.5543	.9800	.3831	.9907	1.0637	21.3501	63.7507	4.6775	.5590	2.1401
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.0100	.3871	1.0276	1.1005	20.9726	62.5981	4.5223	.5655	2.1126
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.0400	.3892	1.0651	1.1373	20.5172	61.5005	4.3670	.5718	2.0851
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.0700	.3893	1.1032	1.1739	19.9921	60.4560	4.2117	.5779	2.0573
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.1000	.3874	1.1419	1.2107	19.4036	59.4643	4.0564	.5838	2.0295
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.1300	.3837	1.1812	1.2475	18.7560	58.5267	3.9011	.5894	2.0015
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.1600	.3781	1.2212	1.2844	18.0523	57.6463	3.7459	.5947	1.9733
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.1900	.3705	1.2619	1.3216	17.2944	56.8285	3.5906	.5997	1.9450
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.2200	.3610	1.3033	1.3592	16.4829	56.0813	3.4353	.6043	1.9164
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.2500	.3494	1.3455	1.3971	15.6175	55.4165	3.2800	.6084	1.8876
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.2800	.3357	1.3885	1.4355	14.6966	54.8514	3.1247	.6120	1.8585
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.3100	.3198	1.4325	1.4745	13.7176	54.4104	2.9695	.6150	1.8291
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.3400	.3014	1.4773	1.5142	12.6761	54.1302	2.8142	.6173	1.7993
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.3700	.2804	1.5233	1.5548	11.5656	54.0658	2.6589	.6188	1.7691
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.4000	.2564	1.5703	1.5964	10.3767	54.3044	2.5036	.6195	1.7383
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.4300	.2289	1.6186	1.6392	9.0987	54.9916	2.3484	.6193	1.7070
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.4600	.1973	1.6683	1.6834	7.6951	56.3912	2.1931	.6179	1.6750
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.4900	.1600	1.7195	1.7294	6.1304	59.0456	2.0378	.6155	1.6421
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.5200	.1137	1.7726	1.7775	4.2789	64.3489	1.8825	.6117	1.6082
2.5	1.8257	1.1867	1.08	.6434	1.5543	1.5500	.0385	1.8277	1.8283	1.4230	79.4540	1.7272	.6065	1.5729
2.5	1.8257	1.1867	1.12	.7093	1.4099	.7100	.0202	.6772	.6775	1.6337	88.8573	5.9389	.4727	2.5851
2.5	1.8257	1.1867	1.12	.7093	1.4099	.7400	.1286	.7097	.7204	9.8600	82.5619	5.7779	.4778	2.5570
2.5	1.8257	1.1867	1.12	.7093	1.4099	.7700	.1761	.7426	.7618	12.8835	79.5527	5.6169	.4828	2.5289
2.5	1.8257	1.1867	1.12	.7093	1.4099	.8000	.2094	.7758	.8020	14.6684	77.2464	5.4559	.4877	2.5007
2.5	1.8257	1.1867	1.12	.7093	1.4099	.8300	.2346	.8095	.8413	15.7850	75.3126	5.2948	.4925	2.4724
2.5	1.8257	1.1867	1.12	.7093	1.4099	.8600	.2542	.8436	.8797	16.4693	73.6238	5.1338	.4972	2.4441
2.5	1.8257	1.1867	1.12	.7093	1.4099	.8900	.2695	.8782	.9176	16.8466	72.1158	4.9728	.5018	2.4156
2.5	1.8257	1.1867	1.12	.7093	1.4099	.9200	.2811	.9132	.9549	16.9925	70.7523	4.8117	.5062	2.3871
2.5	1.8257	1.1867	1.12	.7093	1.4099	.9500	.2896	.9487	.9918	16.9561	69.5113	4.6507	.5104	2.3584
2.5	1.8257	1.1867	1.12	.7093	1.4099	.9800	.2953	.9847	1.0284	16.7707	68.3800	4.4897	.5143	2.3296
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.0100	.2984	1.0212	1.0648	16.4599	67.3514	4.3286	.5181	2.3007
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.0400	.2990	1.0583	1.1011	16.0401	66.4237	4.1676	.5215	2.2716
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.0700	.2972	1.0959	1.1374	15.5232	65.5994	4.0066	.5247	2.2423
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.1000	.2930	1.1341	1.1736	14.9172	64.8855	3.8456	.5274	2.2128
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.1300	.2865	1.1729	1.2100	14.2271	64.2946	3.6845	.5298	2.1831
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.1600	.2775	1.2124	1.2466	13.4550	63.8463	3.5235	.5317	2.1532
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.1900	.2660	1.2525	1.2835	12.6005	63.5697	3.3625	.5332	2.1230
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.2200	.2518	1.2935	1.3207	11.6604	63.5087	3.2014	.5341	2.0924
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.2500	.2345	1.3352	1.3585	10.6266	63.7300	3.0404	.5343	2.0615
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.2800	.2139	1.3777	1.3968	9.4854	64.3396	2.8794	.5339	2.0302
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.3100	.1891	1.4212	1.4359	8.2118	65.5173	2.7183	.5327	1.9983
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.3400	.1587	1.4657	1.4759	6.7563	67.6006	2.5573	.5307	1.9659
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.3700	.1198	1.5113	1.5171	4.9986	71.3565	2.3963	.5278	1.9328
2.5	1.8257	1.1867	1.12	.7093	1.4099	1.4000	.0593	1.5582	1.5596	2.4242	79.6699	2.2352	.5238	1.8988
2.5	1.8257	1.1867	1.16	.8071	1.2390	.8100	.0311	.7836	.7842	2.1988	87.9878	5.2469	.4609	2.6960
2.5	1.8257	1.1867	1.16	.8071	1.2390	.8400	.1010	.8171	.8230	6.8556	83.2648	5.0801	.4638	2.6664
2.5	1.8257	1.1867	1.16	.8071	1.2390	.8700	.1337	.8510	.8610	8.7355	80.7977	4.9133	.4666	2.6367
2.5	1.8257	1.1867	1.16	.8071	1.2390	.9000	.1549	.8854	.8984	9.7679	78.9740	4.7466	.4691	2.6068
2.5	1.8257	1.1867	1.16	.8071	1.2390	.9300	.1692	.9203	.9354	10.3120	77.5301	4.5798	.4713	2.5767
2.5	1.8257	1.1867	1.16	.8071	1.2390	.9600	.1783	.9556	.9719	10.5202	76.3689	4.4130	.4733	2.5465
2.5	1.8257	1.1867	1.16	.8071	1.2390	.9900	.1830	.9913	1.0081	10.4733	75.4511	4.2462	.4749	2.5161
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.0200	.1839	1.0277	1.0442	10.2181	74.7665	4.0794	.4762	2.4856
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.0500	.1810	1.0645	1.0802	9.7817	74.3267	3.9126	.4772	2.4547
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.0800	.1745	1.1019	1.1162	9.1771	74.1650	3.7459	.4776	2.4237
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.1100	.1640	1.1399	1.1523	8.4042	74.3442	3.5791	.4777	2.3923
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.1400	.1490	1.1786	1.1886	7.4470	74.9754	3.4123	.4772	2.3606
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.1700	.1283	1.2179	1.2252	6.2595	76.2680	3.2455	.4761	2.3285
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.2000	.0990	1.2579	1.2622	4.7172	78.6914	3.0787	.4744	2.2960
2.5	1.8257	1.1867	1.16	.8071	1.2390	1.2300	.0485	1.2987	1.2997	2.2590	84.0451	2.9120	.4721	2.2630

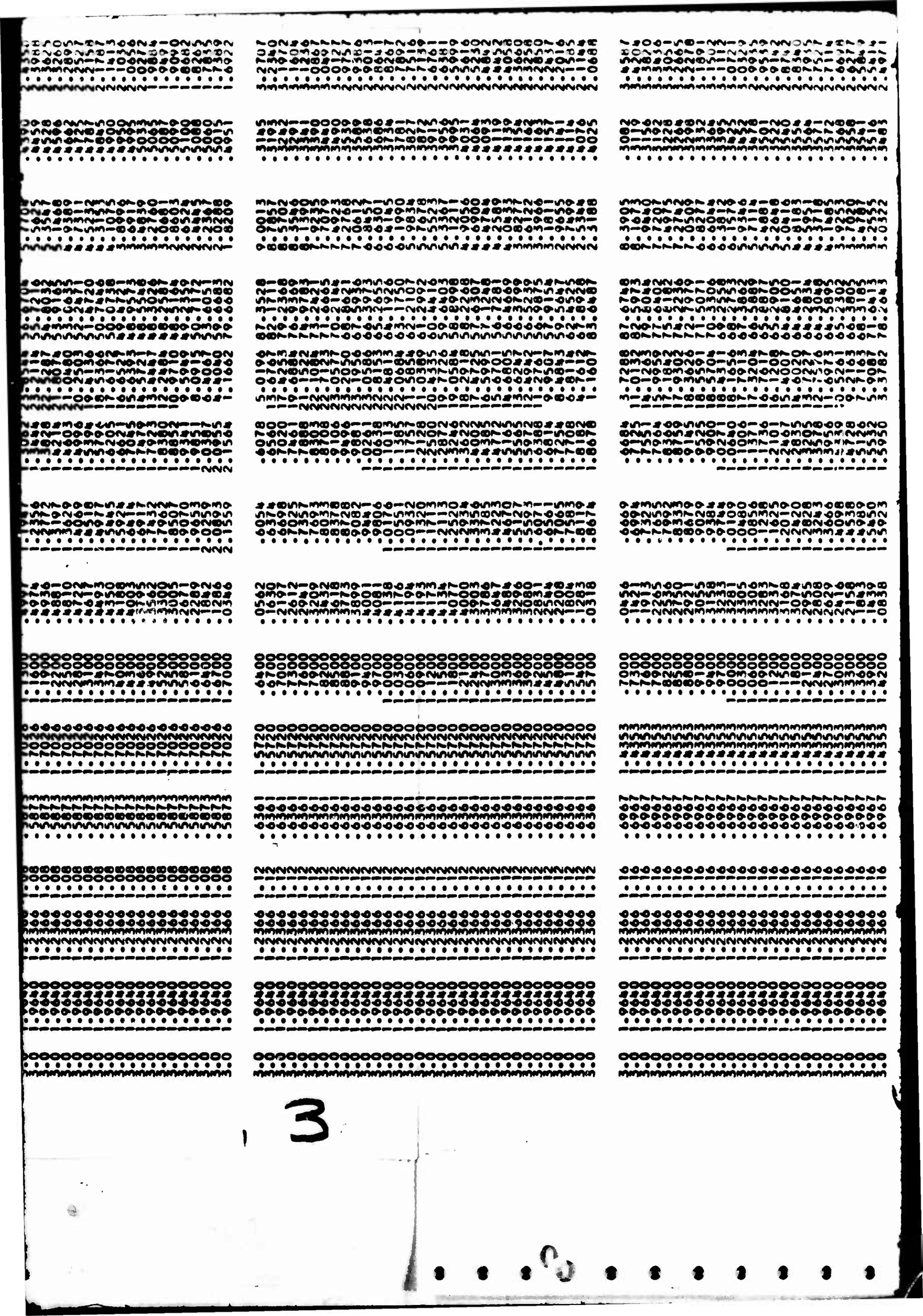
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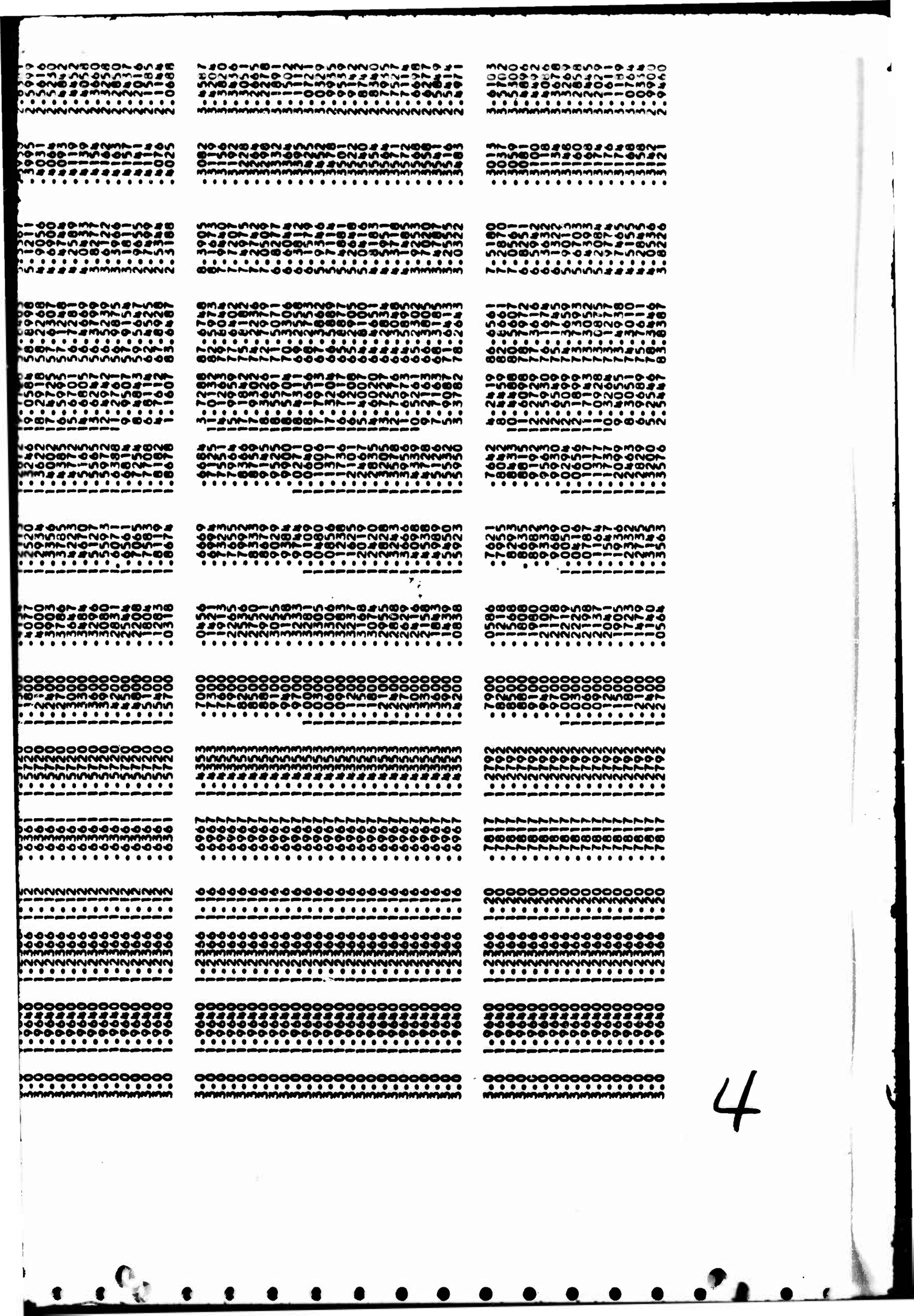
LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1∞	DELMAX	DEL	XMIN	XMAX	X(M2U∞)	Y(M2V∞)	2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.0	1.9640	1.2366	1.00	.5092	1.9640	.5100	.0327	.4760	.4770	3.6631	88.7136	10.3280	.3286	2.6781
1.0	1.9640	1.2366	1.00	.5092	1.9640	.5400	.1973	5071	.5399	20.0698	82.1120	10.1356	.3365	2.6458
1.0	1.9640	1.2366	1.00	.5092	1.9640	.5700	.2739	.5386	.5975	25.6628	78.8849	9.9431	.3446	2.6134
1.0	1.9640	1.2366	1.00	.5092	1.9640	.6000	.3306	.5705	.6514	28.8561	76.3746	9.7506	.3530	2.5810
1.0	1.9640	1.2366	1.00	.5092	1.9640	.6300	.3766	.6028	.7023	30.8711	74.2341	9.5582	.3617	2.5486
1.0	1.9640	1.2366	1.00	.5092	1.9640	.6600	.4155	.6356	.7510	32.1892	72.3278	9.3657	.3706	2.5162
1.0	1.9640	1.2366	1.00	.5092	1.9640	.6900	.4490	.6688	.7979	33.0523	70.5859	9.1732	.3799	2.4837
1.0	1.9640	1.2366	1.00	.5092	1.9640	.7200	.4783	.7025	.8434	33.5985	68.9668	8.9808	.3894	2.4513
1.0	1.9640	1.2366	1.00	.5092	1.9640	.7500	.5042	.7366	.8876	33.9141	67.4434	8.7883	.3993	2.4188
1.0	1.9640	1.2366	1.00	.5092	1.9640	.7800	.5272	.7713	.9309	34.0554	65.9968	8.5958	.4095	2.3864
1.0	1.9640	1.2366	1.00	.5092	1.9640	.8100	.5476	.8065	.9735	34.0614	64.6132	8.4034	.4200	2.3539
1.0	1.9640	1.2366	1.00	.5092	1.9640	.8400	.5657	.8422	1.0154	33.9599	63.2822	8.2109	.4308	2.3214
1.0	1.9640	1.2366	1.00	.5092	1.9640	.8700	.5818	.8784	1.0567	33.7711	61.9956	8.0184	.4420	2.2888
1.0	1.9640	1.2366	1.00	.5092	1.9640	.9000	.5959	.9152	1.0977	33.5101	60.7468	7.8260	.4536	2.2563
1.0	1.9640	1.2366	1.00	.5092	1.9640	.9300	.6083	.9527	1.1383	33.1884	59.5306	7.6335	.4655	2.2237
1.0	1.9640	1.2366	1.00	.5092	1.9640	.9600	.6190	.9907	1.1788	32.8150	58.3424	7.4410	.4779	2.1911
1.0	1.9640	1.2366	1.00	.5092	1.9640	.9900	.6282	1.0293	1.2191	32.3966	57.1786	7.2486	.4906	2.1585
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.0200	.6359	1.0686	1.2593	31.9389	56.0357	7.0561	.5038	2.1258
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.0500	.6421	1.1086	1.2995	31.4460	54.9111	6.8636	.5173	2.0931
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.0800	.6469	1.1493	1.3397	30.9213	53.8021	6.6711	.5314	2.0604
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.1100	.6504	1.1907	1.3801	30.3675	52.7067	6.4787	.5458	2.0276
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.1400	.6525	1.2329	1.4206	29.7868	51.6226	6.2862	.5607	1.9948
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.1700	.6534	1.2759	1.4614	29.1806	50.5482	6.0937	.5761	1.9620
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.2000	.6529	1.3198	1.5025	28.5503	49.4816	5.9013	.5919	1.9291
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.2300	.6512	1.3645	1.5439	27.8966	48.4212	5.7088	.6082	1.8961
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.2600	.6481	1.4101	1.5857	27.2200	47.3655	5.5163	.6249	1.8631
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.2900	.6438	1.4566	1.6279	26.5209	46.3130	5.3239	.6421	1.8300
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.3200	.6381	1.5042	1.6707	25.7993	45.2623	5.1314	.6598	1.7969
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.3500	.6311	1.5528	1.7141	25.0548	44.2120	4.9389	.6780	1.7636
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.3800	.6227	1.6025	1.7581	24.2869	43.1605	4.7465	.6965	1.7303
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.4100	.6129	1.6534	1.8029	23.4950	42.1066	4.5540	.7155	1.6969
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.4400	.6017	1.7055	1.8484	22.6779	41.0488	4.3615	.7348	1.6634
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.4700	.5890	1.7589	1.8949	21.8344	39.9855	4.1691	.7545	1.6297
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.5000	.5747	1.8138	1.9423	20.9629	38.9152	3.9766	.7745	1.5959
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.5300	.5587	1.8701	1.9908	20.0614	37.8361	3.7841	.7947	1.5619
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.5600	.5410	1.9279	2.0406	19.1275	36.7466	3.5917	.8150	1.5277
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.5900	.5215	1.9875	2.0917	18.1583	35.6447	3.3992	.8353	1.4933
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.6200	.4999	2.0489	2.1443	17.1505	34.5282	3.2067	.8555	1.4586
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.6500	.4762	2.1124	2.1986	16.0998	33.3947	3.0143	.8755	1.4237
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.6800	.4502	2.1780	2.2548	15.0013	32.2417	2.8218	.8950	1.3883
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.7100	.4216	2.2460	2.3133	13.8488	31.0661	2.6293	.9139	1.3525
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.7400	.3900	2.3168	2.3743	12.6346	29.8644	2.4368	.9317	1.3161
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.7700	.3553	2.3906	2.4383	11.3494	28.6325	2.2444	.9483	1.2791
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.8000	.3168	2.4680	2.5059	9.9812	27.3656	2.0519	.9633	1.2412
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.8300	.2740	2.5495	2.5779	8.5143	26.0577	1.8594	.9762	1.2022
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.8600	.2260	2.6361	2.6555	6.9282	24.7015	1.6670	.9866	1.1617
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.8900	.1718	2.7289	2.7402	5.1950	23.2878	1.4745	.9941	1.1192
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.9200	.1099	2.8299	2.8346	3.2755	21.8048	1.2820	.9984	1.0740
1.0	1.9640	1.2366	1.00	.5092	1.9640	1.9500	.0379	2.9424	2.9429	1.1126	20.2363	1.0896	.9999	1.0248
1.0	1.9640	1.2366	1.04	.5458	1.8322	.5500	.0692	.5155	.5195	7.1674	87.1222	9.9303	.3250	2.8734
1.0	1.9640	1.2366	1.04	.5458	1.8322	.5800	.1944	.5468	.5767	18.5312	81.7800	9.7301	.3319	2.8396
1.0	1.9640	1.2366	1.04	.5458	1.8322	.6100	.2628	.5785	.6299	23.3046	78.7068	9.5299	.3389	2.8058
1.0	1.9640	1.2366	1.04	.5458	1.8322	.6400	.3139	.6107	.6802	26.1261	76.2813	9.3298	.3462	2.7720
1.0	1.9640	1.2366	1.04	.5458	1.8322	.6700	.3553	.6432	.7281	27.9383	74.2018	9.1296	.3536	2.7382
1.0	1.9640	1.2366	1.04	.5458	1.8322	.7000	.3901	.6762	.7742	29.1333	72.3451	8.9294	.3613	2.7043
1.0	1.9640	1.2366	1.04	.5458	1.8322	.7300	.4200	.7097	.8187	29.9152	70.6465	8.7293	.3691	2.6705
1.0	1.9640	1.2366	1.04	.5458	1.8322	.7600	.4460	.7436	.8621	30.4037	69.0670	8.5291	.3771	2.6366
1.0	1.9640	1.2366	1.04	.5458	1.8322	.7900	.4686	.7779	.9045	30.6745	67.5811	8.3289	.3854	2.6026
1.0	1.9640	1.2366	1.04	.5458	1.8322	.8200	.4884	.8128	.9460	30.7785	66.1708	8.1288	.3938	2.5687
1.0	1.9640	1.2366	1.04	.5458	1.8322	.8500	.5057	.8482	.9869	30.7510	64.8230	7.9286	.4024	2.5347
1.0	1.9640	1.2366	1.04	.5458	1.8322	.8800	.5208	.8840	1.0273	30.6175	63.5279	7.7284	.4113	2.5007
1.0	1.9640	1.2366	1.04	.5458	1.8322	.9100	.5338	.9205	1.0672	30.3967	62.2777	7.5283	.4203	2.4667
1.0	1.9640	1.2366	1.04	.5458	1.8322	.9400	.5450	.9574	1.1067	30.1028	61.0663	7.3281	.4295	2.4326
1.0	1.9640	1.2366	1.04	.5458	1.8322	.9700	.5543	.9950	1.1460	29.7366	59.8887	7.1280	.4389	2.3986

3.0	1.9640	1.2366	1.04	.5458	1.8322	.6100	.2628	.5785	.6299	23.3046	78.7068	9.5299	.3589	2.8058
3.0	1.9640	1.2366	1.04	.5458	1.8322	.6400	.3139	.6107	.6602	26.1261	76.2813	9.3298	.3462	2.7720
3.0	1.9640	1.2366	1.04	.5458	1.8322	.6700	.3553	.6432	.7281	27.9383	74.2018	9.1296	.3536	2.7382
3.0	1.9640	1.2366	1.04	.5458	1.8322	.7000	.3901	.6762	.7742	29.1333	72.3451	8.9294	.3613	2.7043
3.0	1.9640	1.2366	1.04	.5458	1.8322	.7300	.4200	.7097	.8187	29.9152	70.6465	8.7293	.3691	2.6705
3.0	1.9640	1.2366	1.04	.5458	1.8322	.7600	.4460	.7436	.8621	30.4037	69.0670	8.5291	.3771	2.6366
3.0	1.9640	1.2366	1.04	.5458	1.8322	.7900	.4686	.7779	.9045	30.6745	67.5811	8.3289	.3854	2.6026
3.0	1.9640	1.2366	1.04	.5458	1.8322	.8200	.4884	.8128	.9460	30.7785	66.1708	8.1288	.3938	2.5687
3.0	1.9640	1.2366	1.04	.5458	1.8322	.8500	.5057	.8482	.9869	30.7510	64.8230	7.9286	.4024	2.5347
3.0	1.9640	1.2366	1.04	.5458	1.8322	.8800	.5208	.8840	1.0273	30.6175	63.5279	7.7284	.4113	2.5007
3.0	1.9640	1.2366	1.04	.5458	1.8322	.9100	.5338	.9205	1.0672	30.3967	62.2777	7.5283	.4203	2.4667
3.0	1.9640	1.2366	1.04	.5458	1.8322	.9400	.5450	.9574	1.1067	30.1028	61.0663	7.3281	.4295	2.4326
3.0	1.9640	1.2366	1.04	.5458	1.8322	.9700	.5543	.9950	1.1460	29.7466	59.8887	7.1279	.4390	2.3985
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.0000	.5620	1.0332	1.1851	29.3363	58.7408	6.9278	.4486	2.3643
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.0300	.5681	1.0719	1.2242	28.8784	57.6192	6.7276	.4584	2.3301
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.0600	.5726	1.1114	1.2632	28.3781	56.5211	6.5274	.4685	2.2958
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.0900	.5756	1.1515	1.3022	27.8392	55.4442	6.3273	.4787	2.2615
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.1200	.5772	1.1922	1.3413	27.2649	54.3862	6.1271	.4891	2.2272
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.1500	.5773	1.2338	1.3805	26.6574	53.3451	5.9269	.4996	2.1927
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.1800	.5760	1.2760	1.4199	26.0185	52.3213	5.7268	.5103	2.1582
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.2100	.5732	1.3191	1.4596	25.3494	51.3118	5.5266	.5211	2.1236
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.2400	.5691	1.3630	1.4996	24.6509	50.3164	5.3264	.5320	2.0889
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.2700	.5634	1.4077	1.5400	23.9235	49.3346	5.1263	.5430	2.0542
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.3000	.5563	1.4533	1.5808	23.1669	48.3662	4.9261	.5541	2.0193
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.3300	.5477	1.4999	1.6221	22.3810	47.4113	4.7259	.5651	1.9842
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.3600	.5375	1.5476	1.6640	21.5649	46.4706	4.5258	.5761	1.9491
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.3900	.5257	1.5962	1.7066	20.7175	45.5452	4.3256	.5871	1.9138
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.4200	.5123	1.6460	1.7498	19.8372	44.6370	4.1254	.5978	1.8783
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.4500	.4971	1.6970	1.7939	18.9222	43.7488	3.9253	.6083	1.8425
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.4800	.4800	1.7493	1.8390	17.9698	42.8848	3.7251	.6185	1.8066
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.5100	.4610	1.8029	1.8850	16.9770	42.0512	3.5249	.6283	1.7703
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.5400	.4398	1.8580	1.9323	15.9399	41.2569	3.3248	.6376	1.7338
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.5700	.4164	1.9147	1.9809	14.8537	40.5154	3.1246	.6461	1.6968
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.6000	.3904	1.9732	2.0311	13.7126	39.8471	2.9244	.6538	1.6594
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.6300	.3616	2.0336	2.0830	12.5091	39.2838	2.7243	.6605	1.6214
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.6600	.3297	2.0962	2.1371	11.2334	38.8781	2.5241	.6659	1.5827
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.6900	.2941	2.1612	2.1937	9.8729	38.7215	2.3239	.6698	1.5432
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.7200	.2543	2.2291	2.2533	8.4096	38.9877	2.1238	.6720	1.5026
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.7500	.2092	2.3003	2.3167	6.8163	40.0483	1.9236	.6722	1.4606
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.7800	.1571	2.3757	2.3849	5.0432	42.6711	1.7234	.6700	1.4168
3.0	1.9640	1.2366	1.04	.5458	1.8322	1.8100	.0933	2.4562	2.4595	2.9505	51.1496	1.5233	.6652	1.3705
3.0	1.9640	1.2366	1.08	.5873	1.7026	.5900	.0511	.5551	.5571	4.9467	87.7502	9.5120	.3197	3.0750
3.0	1.9640	1.2366	1.08	.5873	1.7026	.6200	.1761	.5867	.6099	15.8553	82.1051	9.3041	.3256	3.0398
3.0	1.9640	1.2366	1.08	.5873	1.7026	.6500	.2401	.6186	.6595	20.2744	79.0395	9.0962	.3316	3.0046
3.0	1.9640	1.2366	1.08	.5873	1.7026	.6800	.2873	.6510	.7067	22.9052	76.6405	8.8884	.3377	2.9693
3.0	1.9640	1.2366	1.08	.5873	1.7026	.7100	.3251	.6838	.7521	24.6037	74.5937	8.6805	.3439	2.9340
3.0	1.9640	1.2366	1.08	.5873	1.7026	.7400	.3565	.7170	.7959	25.7244	72.7729	8.4726	.3502	2.8987
3.0	1.9640	1.2366	1.08	.5873	1.7026	.7700	.3831	.7507	.8385	26.4531	71.1128	8.2648	.3566	2.8633
3.0	1.9640	1.2366	1.08	.5873	1.7026	.8000	.4059	.7848	.8800	26.8997	69.5743	8.0569	.3631	2.8279
3.0	1.9640	1.2366	1.08	.5873	1.7026	.8300	.4254	.8194	.9207	27.1343	68.1320	7.8491	.3697	2.7925
3.0	1.9640	1.2366	1.08	.5873	1.7026	.8600	.4421	.8545	.9607	27.2044	66.7681	7.6412	.3764	2.7570
3.0	1.9640	1.2366	1.08	.5873	1.7026	.8900	.4563	.8900	1.0002	27.1431	65.4699	7.4333	.3831	2.7214
3.0	1.9640	1.2366	1.08	.5873	1.7026	.9200	.4682	.9261	1.0392	26.9745	64.2279	7.2255	.3900	2.6859
3.0	1.9640	1.2366	1.08	.5873	1.7026	.9500	.4781	.9627	1.0778	26.7165	63.0349	7.0176	.3969	2.6502
3.0	1.9640	1.2366	1.08	.5873	1.7026	.9800	.4861	.9999	1.1161	26.3823	61.8854	6.8097	.4038	2.6145
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.0100	.4922	1.0376	1.1543	25.9822	60.7750	6.6019	.4108	2.5788
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.0400	.4966	1.0759	1.1923	25.5240	59.7004	6.3940	.4179	2.5430
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.0700	.4993	1.1148	1.2302	25.0138	58.6591	6.1861	.4249	2.5070
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.1000	.5003	1.1544	1.2682	24.4561	57.6495	5.9783	.4320	2.4711
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.1300	.4997	1.1947	1.3062	23.8544	56.6704	5.7704	.4390	2.4350
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.1600	.4974	1.2356	1.3444	23.2114	55.7216	5.5625	.4459	2.3988
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.1900	.4936	1.2772	1.3828	22.5287	54.8032	5.3547	.4528	2.3625
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.2200	.4881	1.3197	1.4214	21.8074	53.9165	5.1468	.4596	2.3260
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.2500	.4810	1.3629	1.4603	21.0480	53.0635	4.9389	.4662	2.2895
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.2800	.4722	1.4069	1.4996	20.2503	52.2471	4.7311	.4725	2.2527
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.3100	.4617	1.4518	1.5394	19.4136	51.4720	4.5232	.4787	2.2158
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.3400	.4493	1.4977	1.5796	18.5366	50.7446	4.3153	.4845	2.1787
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.3700	.4350	1.5445	1.6205	17.6172	50.0738	4.1075	.4900	2.1413
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.4000	.4188	1.5924	1.6621	16.6527	49.4721	3.8996	.4950	2.1036
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.4300	.4003	1.6414	1.7045	15.6393	48.9573	3.6917	.4995	2.0656
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.4600	.3795	1.6917	1.7479	14.5721	48.5548	3.4839	.5033	2.0272
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.4900	.3562	1.7432	1.7923	13.4447	48.3026	3.2760	.5065	1.9884
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.5200	.3300	1.7962	1.8380	12.2484	48.2587	3.0681	.5087	1.9491
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.5500	.3005	1.8507	1.8852	10.9710	48.5164	2.8603	.5099	1.9090
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.5800	.2671	1.9070	1.9341	9.5949	49.2359	2.6524	.5100	1.8682
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.6100	.2289	1.9653	1.9851	8.0915	50.7172	2.4445	.5088	1.8265
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.6400	.1842	2.0259	2.0387	6.4067	53.6051	2.2367	.5060	1.7835
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.6700	.1286	2.0893	2.0955	4.4040	59.6683	2.0288	.5015	1.7389
3.0	1.9640	1.2366	1.08	.5873	1.7026	1.7000	.0346	2.1559	2.1564	1.1662	79.6682	1.8209	.4951	1.6922





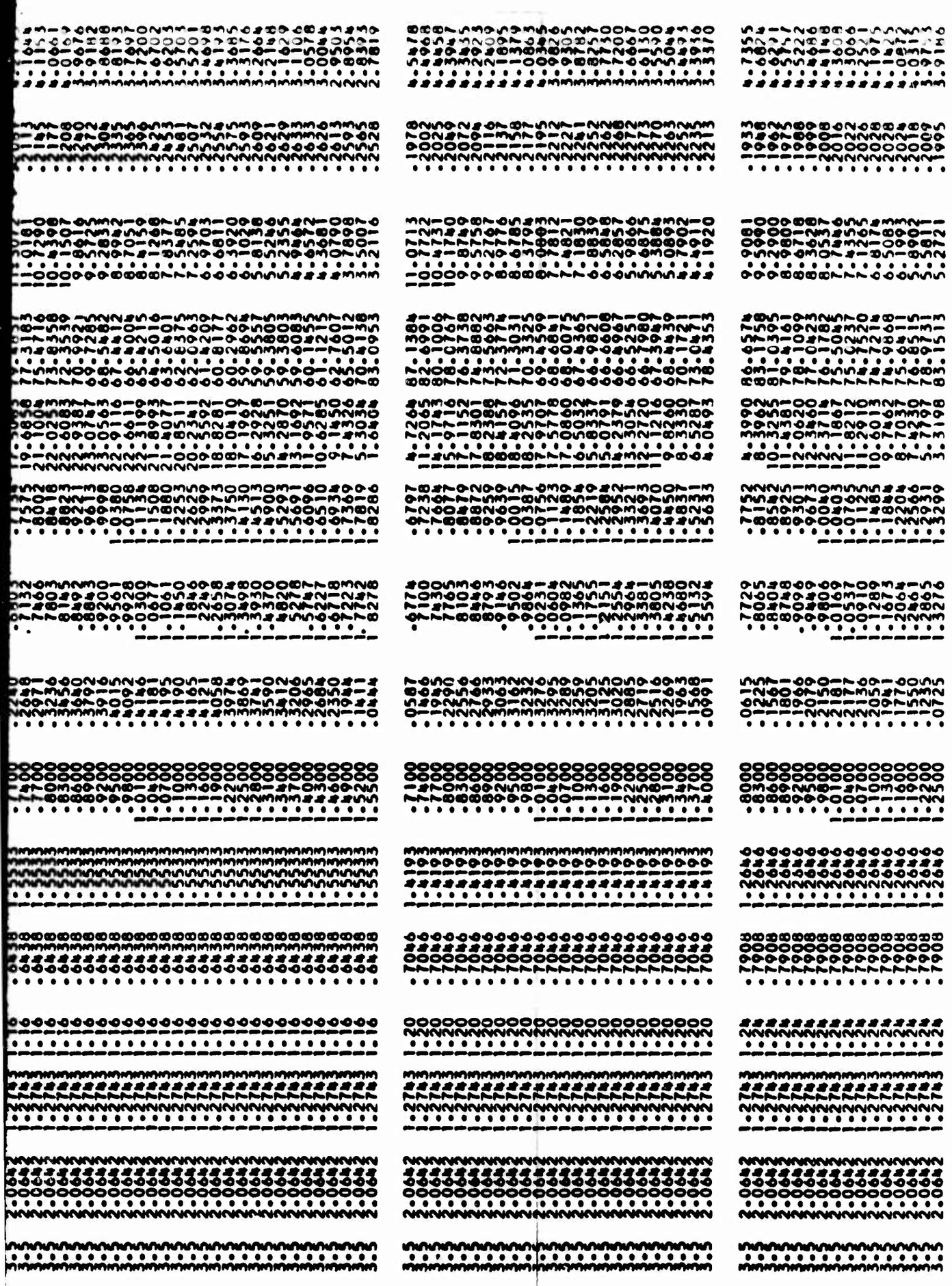
LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1o	DELMAX	DEL	XMIN	XMAX	X(M2Uo)	Y(M2Vo)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.5	2.0642	1.2743	1.00	.4845	2.0642	.4900	.0895	.4569	.4644	10.3561	86.7444	14.0789	.2140	3.3073
1.5	2.0642	1.2743	1.00	.4845	2.0642	.5200	.2243	.4879	.5314	23.3341	81.7348	13.8297	.2198	3.2656
1.5	2.0642	1.2743	1.00	.4845	2.0642	.5500	.3014	.5194	.5923	28.7210	78.7432	13.5804	.2257	3.2238
1.5	2.0642	1.2743	1.00	.4845	2.0642	.5800	.3599	.5513	.6488	31.8229	76.3682	13.3312	.2319	3.1821
1.5	2.0642	1.2743	1.00	.4845	2.0642	.6100	.4080	.5837	.7022	33.7790	74.3263	13.0819	.2384	3.1405
1.5	2.0642	1.2743	1.00	.4845	2.0642	.6400	.4491	.6165	.7531	35.0552	72.4998	12.8327	.2451	3.0985
1.5	2.0642	1.2743	1.00	.4845	2.0642	.6700	.4848	.6498	.8020	35.8881	70.8265	12.5834	.2520	3.0567
1.5	2.0642	1.2743	1.00	.4845	2.0642	.7000	.5163	.6836	.8494	36.4135	69.2686	12.3342	.2592	3.0150
1.5	2.0642	1.2743	1.00	.4845	2.0642	.7300	.5444	.7178	.8955	36.7157	67.8014	12.0849	.2667	2.9731
1.5	2.0642	1.2743	1.00	.4845	2.0642	.7600	.5696	.7527	.9406	36.8502	66.4072	11.8357	.2745	2.9313
1.5	2.0642	1.2743	1.00	.4845	2.0642	.7900	.5922	.7880	.9848	36.8551	65.0733	11.5864	.2825	2.8895
1.5	2.0642	1.2743	1.00	.4845	2.0642	.8200	.6125	.8239	1.0284	36.7575	63.7898	11.3371	.2909	2.8477
1.5	2.0642	1.2743	1.00	.4845	2.0642	.8500	.6307	.8604	1.0714	36.5772	62.5492	11.0879	.2997	2.8058
1.5	2.0642	1.2743	1.00	.4845	2.0642	.8800	.6471	.8975	1.1140	36.3289	61.3453	10.8386	.3088	2.7639
1.5	2.0642	1.2743	1.00	.4845	2.0642	.9100	.6617	.9352	1.1563	36.0238	60.1731	10.5894	.3182	2.7221
1.5	2.0642	1.2743	1.00	.4845	2.0642	.9400	.6747	.9736	1.1984	35.6706	59.0282	10.3401	.3281	2.6802
1.5	2.0642	1.2743	1.00	.4845	2.0642	.9700	.6862	1.0126	1.2403	35.2760	57.9073	10.0909	.3383	2.6382
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.0000	.6962	1.0523	1.2822	34.8454	56.8072	9.8416	.3490	2.5963
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.0300	.7048	1.0927	1.3241	34.3829	55.7253	9.5924	.3601	2.5544
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.0600	.7121	1.1339	1.3660	33.8921	54.6593	9.3431	.3717	2.5124
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.0900	.7181	1.1759	1.4081	33.3754	53.6069	9.0939	.3838	2.4704
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.1200	.7228	1.2187	1.4504	32.8351	52.5664	8.8446	.3964	2.4285
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.1500	.7262	1.2623	1.4929	32.2729	51.5361	8.5954	.4095	2.3863
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.1800	.7285	1.3068	1.5358	31.6900	50.5143	8.3461	.4232	2.3442
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.2100	.7296	1.3522	1.5790	31.0875	49.4995	8.0969	.4374	2.3021
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.2400	.7294	1.3986	1.6226	30.4661	48.4904	7.8476	.4523	2.2599
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.2700	.7281	1.4460	1.6668	29.8262	47.4856	7.5984	.4678	2.2178
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.3000	.7256	1.4944	1.7115	29.1681	46.4839	7.3491	.4839	2.1755
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.3300	.7219	1.5440	1.7568	28.4919	45.4840	7.0999	.5007	2.1332
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.3600	.7170	1.5947	1.8028	27.7975	44.4847	6.8506	.5183	2.0909
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.3900	.7108	1.6467	1.8495	27.0845	43.4848	6.6014	.5365	2.0485
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.4200	.7034	1.6999	1.8971	26.3525	42.4830	6.3521	.5555	2.0061
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.4500	.6947	1.7546	1.9456	25.6008	41.4781	6.1029	.5753	1.9635
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.4800	.6847	1.8106	1.9950	24.8285	40.4689	5.8536	.5959	1.9209
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.5100	.6734	1.8682	2.0456	24.0346	39.4539	5.6044	.6172	1.8782
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.5400	.6606	1.9274	2.0973	23.2177	38.4318	5.3551	.6393	1.8354
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.5700	.6463	1.9883	2.1503	22.3762	37.4012	5.1059	.6622	1.7925
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.6000	.6305	2.0511	2.2047	21.5082	36.3603	4.8566	.6858	1.7494
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.6300	.6131	2.1159	2.2606	20.6116	35.3076	4.6074	.7102	1.7062
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.6600	.5938	2.1828	2.3182	19.6835	34.2411	4.3581	.7352	1.6628
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.6900	.5727	2.2520	2.3778	18.7209	33.1586	4.1089	.7607	1.6191
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.7200	.5496	2.3237	2.4394	17.7198	32.0579	3.8596	.7867	1.5752
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.7500	.5242	2.3981	2.5034	16.6757	30.9363	3.6104	.8130	1.5311
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.7800	.4964	2.4755	2.5699	15.5827	29.7907	3.3611	.8393	1.4865
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.8100	.4659	2.5562	2.6395	14.4340	28.6175	3.1119	.8654	1.4414
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.8400	.4323	2.6407	2.7126	13.2207	27.4125	2.8626	.8909	1.3958
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.8700	.3952	2.7294	2.7897	11.9317	26.1707	2.6134	.9158	1.3495
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.9000	.3539	2.8231	2.8717	10.5524	24.8858	2.3641	.9382	1.3022
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.9300	.3079	2.9227	2.9596	9.0634	23.5502	2.1149	.9586	1.2537
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.9600	.2559	3.0295	3.0552	7.4383	22.1539	1.8656	.9758	1.2034
1.5	2.0642	1.2743	1.00	.4845	2.0642	1.9900	.1965	3.1455	3.1607	5.6392	20.6841	1.6164	.9888	1.1507
1.5	2.0642	1.2743	1.00	.4845	2.0642	2.0200	.1274	3.2740	3.2805	3.6099	19.1231	1.3671	.9969	1.0944
1.5	2.0642	1.2743	1.00	.4845	2.0642	2.0500	.0451	3.4210	3.4218	1.2616	17.4456	1.1179	.9999	1.0324
1.5	2.0642	1.2743	1.00	.5172	1.9334	.5200	.0599	.4859	.4891	6.5719	87.7192	13.6548	.2109	3.5611
1.5	2.0642	1.2743	1.00	.5172	1.9334	.5500	.2036	.5171	.5514	20.3104	82.1375	13.3976	.2160	3.5176
1.5	2.0642	1.2743	1.00	.5172	1.9334	.5800	.2784	.5487	.6087	25.6411	79.0881	13.1384	.2212	3.4741
1.5	2.0642	1.2743	1.00	.5172	1.9334	.6100	.3344	.5808	.6623	28.7284	76.6970	12.8792	.2266	3.4306
1.5	2.0642	1.2743	1.00	.5172	1.9334	.6400	.3799	.6132	.7131	30.6915	74.6528	12.6200	.2322	3.3870
1.5	2.0642	1.2743	1.00	.5172	1.9334	.6700	.4184	.6461	.7618	31.9823	72.8306	12.3607	.2380	3.3435
1.5	2.0642	1.2743	1.00	.5172	1.9334	.7000	.4517	.6795	.8087	32.8310	71.1654	12.1015	.2440	3.2999
1.5	2.0642	1.2743	1.00	.5172	1.9334	.7300	.4808	.7134	.8542	33.3704	69.6182	11.8423	.2501	3.2565
1.5	2.0642	1.2743	1.00	.5172	1.9334	.7600	.5065	.7477	.8986	33.6834	68.1652	11.5831	.2564	3.2127

3.5	2.0642	1.2743	1.00	.4845	2.0642	2.0200	.1274	3.2740	3.2805	3.6099	19.1231	1.3671	.9969	1.0944
3.5	2.0642	1.2743	1.00	.4845	2.0642	2.0500	.0451	3.4210	3.4218	1.2616	17.4456	1.1179	.9999	1.0324
3.5	2.0642	1.2743	1.04	.5172	1.9334	.5200	.0599	.4859	.4891	6.5719	87.7192	13.6568	.2109	3.5611
3.5	2.0642	1.2743	1.04	.5172	1.9334	.5500	.2036	.5171	.5514	20.3104	82.1375	13.3976	.2160	3.5176
3.5	2.0642	1.2743	1.04	.5172	1.9334	.5800	.2784	.5487	.6087	25.6411	79.0881	13.1384	.2212	3.4741
3.5	2.0642	1.2743	1.04	.5172	1.9334	.6100	.3344	.5808	.6623	28.7284	76.6970	12.8792	.2266	3.4306
3.5	2.0642	1.2743	1.04	.5172	1.9334	.6400	.3799	.6132	.7131	30.6915	74.6528	12.6200	.2322	3.3870
3.5	2.0642	1.2743	1.04	.5172	1.9334	.6700	.4184	.6461	.7618	31.9823	72.8306	12.3607	.2380	3.3435
3.5	2.0642	1.2743	1.04	.5172	1.9334	.7000	.4517	.6795	.8087	32.8310	71.1654	12.1015	.2440	3.2999
3.5	2.0642	1.2743	1.04	.5172	1.9334	.7300	.4808	.7134	.8542	33.3704	69.6182	11.8423	.2501	3.2563
3.5	2.0642	1.2743	1.04	.5172	1.9334	.7600	.5065	.7477	.8986	33.6834	68.1635	11.5831	.2564	3.2127
3.5	2.0642	1.2743	1.04	.5172	1.9334	.7900	.5294	.7825	.9420	33.8250	66.7835	11.3239	.2630	3.1691
3.5	2.0642	1.2743	1.04	.5172	1.9334	.8200	.5496	.8179	.9847	33.8329	65.4652	11.0646	.2698	3.1255
3.5	2.0642	1.2743	1.04	.5172	1.9334	.8500	.5676	.8538	1.0267	33.7344	64.1987	10.8054	.2767	3.0818
3.5	2.0642	1.2743	1.04	.5172	1.9334	.8800	.5835	.8903	1.0682	33.5491	62.9763	10.5462	.2839	3.0381
3.5	2.0642	1.2743	1.04	.5172	1.9334	.9100	.5976	.9273	1.1094	33.2921	61.7920	10.2870	.2914	2.9944
3.5	2.0642	1.2743	1.04	.5172	1.9334	.9400	.6098	.9650	1.1503	32.9745	60.6406	10.0278	.2990	2.9507
3.5	2.0642	1.2743	1.04	.5172	1.9334	.9700	.6205	1.0032	1.1909	32.6052	59.5182	9.7685	.3069	2.9069
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.0000	.6295	1.0422	1.2315	32.1908	58.4212	9.5093	.3151	2.8631
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.0300	.6371	1.0817	1.2719	31.7369	57.3468	9.2501	.3235	2.8193
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.0600	.6432	1.1220	1.3124	31.2476	56.2924	8.9909	.3322	2.7755
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.0900	.6479	1.1630	1.3529	30.7262	55.2558	8.7316	.3411	2.7316
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.1200	.6512	1.2047	1.3936	30.1754	54.2353	8.4724	.3503	2.6876
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.1500	.6532	1.2472	1.4344	29.5973	53.2292	8.2132	.3598	2.6437
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.1800	.6539	1.2906	1.4755	28.9933	52.2360	7.9540	.3695	2.5996
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.2100	.6533	1.3347	1.5168	28.3646	51.2546	7.6948	.3795	2.5555
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.2400	.6513	1.3798	1.5586	27.7120	50.2839	7.4355	.3898	2.5114
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.2700	.6481	1.4258	1.6007	27.0360	49.3230	7.1763	.4003	2.4672
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.3000	.6435	1.4727	1.6433	26.3368	48.3712	6.9171	.4111	2.4229
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.3300	.6376	1.5207	1.6865	25.6143	47.4279	6.6579	.4222	2.3785
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.3600	.6304	1.5698	1.7302	24.8680	46.4928	6.3987	.4334	2.3341
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.3900	.6217	1.6199	1.7746	24.0975	45.5657	6.1394	.4449	2.2895
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.4200	.6116	1.6713	1.8197	23.3017	44.6467	5.8802	.4565	2.2448
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.4500	.6000	1.7239	1.8656	22.4795	43.7363	5.6210	.4683	2.2000
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.4800	.5869	1.7778	1.9125	21.6294	42.8354	5.3618	.4802	2.1551
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.5100	.5721	1.8331	1.9603	20.7494	41.9452	5.1026	.4921	2.1099
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.5400	.5556	1.8900	2.0092	19.8373	41.0679	4.8433	.5040	2.0646
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.5700	.5372	1.9484	2.0593	18.8902	40.2066	4.5841	.5158	2.0191
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.6000	.5169	2.0086	2.1108	17.9048	39.3662	4.3249	.5273	1.9732
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.6300	.4945	2.0706	2.1638	16.8768	38.5533	4.0657	.5386	1.9271
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.6600	.4698	2.1346	2.2185	15.8011	37.7782	3.8065	.5493	1.8805
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.6900	.4425	2.2009	2.2751	14.6714	37.0564	3.5472	.5593	1.8335
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.7200	.4123	2.2696	2.3339	13.4797	36.4123	3.2880	.5684	1.7859
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.7500	.3789	2.3411	2.3953	12.2156	35.8854	3.0288	.5763	1.7376
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.7800	.3417	2.4156	2.4597	10.8655	35.5441	2.7696	.5827	1.6884
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.8100	.3000	2.4938	2.5278	9.4108	35.5151	2.5104	.5872	1.6381
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.8400	.2528	2.5763	2.6005	7.8239	36.0607	2.2511	.5894	1.5862
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.8700	.1985	2.6640	2.6790	6.0594	37.8228	1.9919	.5887	1.5322
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.9000	.1335	2.7584	2.7652	4.0178	42.9207	1.7327	.5846	1.4753
3.5	2.0642	1.2743	1.04	.5172	1.9334	1.9300	.0372	2.8620	2.8626	1.1034	68.4445	1.4735	.5767	1.4141
3.5	2.0642	1.2743	1.08	.5536	1.8062	.5600	.0850	.5254	.5315	8.6290	86.5902	13.1251	.2086	3.8089
3.5	2.0642	1.2743	1.08	.5536	1.8062	.5900	.2006	.5569	.5882	18.7804	81.8232	12.8559	.2130	3.7636
3.5	2.0642	1.2743	1.08	.5536	1.8062	.6200	.2674	.5888	.6412	23.3308	78.9259	12.5867	.2176	3.7183
3.5	2.0642	1.2743	1.08	.5536	1.8062	.6500	.3178	.6211	.6913	26.0546	76.6223	12.3175	.2223	3.6730
3.5	2.0642	1.2743	1.08	.5536	1.8062	.6800	.3588	.6538	.7392	27.8155	74.6427	12.0483	.2271	3.6276
3.5	2.0642	1.2743	1.08	.5536	1.8062	.7100	.3933	.6869	.7853	28.9817	72.8741	11.7792	.2320	3.5823
3.5	2.0642	1.2743	1.08	.5536	1.8062	.7400	.4229	.7206	.8299	29.7470	71.2565	11.5100	.2371	3.5369
3.5	2.0642	1.2743	1.08	.5536	1.8062	.7700	.4486	.7546	.8734	30.2259	69.7536	11.2408	.2422	3.4915
3.5	2.0642	1.2743	1.08	.5536	1.8062	.8000	.4711	.7892	.9158	30.4918	68.3414	10.9716	.2475	3.4460
3.5	2.0642	1.2743	1.08	.5536	1.8062	.8300	.4907	.8242	.9575	30.5935	67.0030	10.7024	.2529	3.4005
3.5	2.0642	1.2743	1.08	.5536	1.8062	.8600	.5079	.8598	.9985	30.5656	65.7264	10.4332	.2585	3.3550
3.5	2.0642	1.2743	1.08	.5536	1.8062	.8900	.5228	.8959	1.0390	30.4328	64.5021	10.1640	.2642	3.3095
3.5	2.0642	1.2743	1.08	.5536	1.8062	.9200	.5357	.9325	1.0791	30.2134	63.3230	9.8948	.2700	3.2639
3.5	2.0642	1.2743	1.08	.5536	1.8062	.9500	.5467	.9697	1.1189	29.9212	62.1835	9.6256	.2759	3.2183
3.5	2.0642	1.2743	1.08	.5536	1.8062	.9800	.5560	1.0075	1.1584	29.5669	61.0791	9.3564	.2819	3.1727
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.0100	.5635	1.0459	1.1977	29.1584	60.0061	9.0872	.2881	3.1270
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.0400	.5694	1.0850	1.2370	28.7022	58.9617	8.8181	.2943	3.0812
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.0700	.5738	1.1247	1.2762	28.2033	57.9433	8.5489	.3007	3.0354
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.1000	.5767	1.1650	1.3154	27.6654	56.9492	8.2797	.3072	2.9895
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.1300	.5780	1.2061	1.3547	27.0915	55.9780	8.0105	.3137	2.9436
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.1600	.5779	1.2479	1.3942	26.4838	55.0285	7.7413	.3204	2.8976
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.1900	.5764	1.2905	1.4339	25.8441	54.1001	7.4721	.3271	2.8515
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.2200	.5734	1.3339	1.4738	25.1733	53.1926	7.2029	.3338	2.8053
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.2500	.5689	1.3781	1.5141	24.4722	52.3062	6.9337	.3406	2.7591
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.2800	.5630	1.4232	1.5547	23.7408	51.4414	6.6645	.3474	2.7127
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.3100	.5555	1.4692	1.5958	22.9791	50.5996	6.3953	.3542	2.6662
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.3400	.5465	1.5161	1.6374	22.1865	49.7825	6.1261	.3609	2.6196

3.5	2.0642	1.2743	1.08	.5536	1.8062	1.3700	.5235	1.5681	1.6123	20.5816	48.9951	5.8578	.3740	2.5257
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.4000	.5235	1.6132	1.7223	20.5035	48.2351	5.5878	.3740	2.5257
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.4300	.5095	1.6633	1.7658	19.6098	47.5139	5.3186	.3803	2.4785
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.4600	.4936	1.7147	1.8101	18.6780	46.8369	5.0494	.3863	2.4311
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.4900	.4757	1.7674	1.8553	17.7049	46.2146	4.7802	.3920	2.3834
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.5200	.4556	1.8214	1.9015	16.6862	45.6613	4.5110	.3972	2.3353
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.5500	.4333	1.8770	1.9489	15.6169	45.1980	4.2418	.4019	2.2869
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.5800	.4083	1.9341	1.9976	14.4901	44.8552	3.9726	.4060	2.2380
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.6100	.3805	1.9929	2.0478	13.2971	44.6794	3.7034	.4093	2.1885
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.6400	.3494	2.0537	2.0998	12.0259	44.7445	3.4342	.4116	2.1384
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.6700	.3143	2.1167	2.1539	10.6598	45.1752	3.1651	.4128	2.0874
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.7000	.2745	2.1821	2.2104	9.1735	46.1986	2.8959	.4126	2.0353
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.7300	.2285	2.2504	2.2699	7.5234	48.2807	2.6267	.4108	1.9818
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.7600	.1731	2.3221	2.3333	5.6183	52.5772	2.3575	.4071	1.9265
3.5	2.0642	1.2743	1.08	.5536	1.8062	1.7900	.0983	2.3979	2.4015	3.1443	63.3888	2.0883	.4012	1.8697
3.5	2.0642	1.2743	1.12	.5951	1.6805	.6000	.0697	.5652	.5690	6.6228	87.0470	12.5668	.2052	4.0645
3.5	2.0642	1.2743	1.12	.5951	1.6805	.6300	.1824	.5969	.6214	16.1473	82.1353	12.2876	.2090	4.0174
3.5	2.0642	1.2743	1.12	.5951	1.6805	.6600	.2448	.6290	.6709	20.3501	79.2589	12.0085	.2129	3.9701
3.5	2.0642	1.2743	1.12	.5951	1.6805	.6900	.2912	.6616	.7181	22.8840	76.9898	11.7293	.2168	3.9231
3.5	2.0642	1.2743	1.12	.5951	1.6805	.7200	.3286	.6945	.7634	24.5295	75.0493	11.4501	.2208	3.8759
3.5	2.0642	1.2743	1.12	.5951	1.6805	.7500	.3596	.7279	.8073	25.6188	73.3227	11.1710	.2249	3.8287
3.5	2.0642	1.2743	1.12	.5951	1.6805	.7800	.3860	.7617	.8499	26.3279	71.7497	10.8918	.2290	3.7814
3.5	2.0642	1.2743	1.12	.5951	1.6805	.8100	.4085	.7960	.8915	26.7620	70.2939	10.6127	.2332	3.7341
3.5	2.0642	1.2743	1.12	.5951	1.6805	.8400	.4278	.8308	.9323	26.9886	68.9317	10.3335	.2374	3.6867
3.5	2.0642	1.2743	1.12	.5951	1.6805	.8700	.4443	.8661	.9725	27.0534	67.6468	10.0543	.2417	3.6394
3.5	2.0642	1.2743	1.12	.5951	1.6805	.9000	.4583	.9018	1.0120	26.9887	66.4272	9.7752	.2460	3.5919
3.5	2.0642	1.2743	1.12	.5951	1.6805	.9300	.4701	.9381	1.0512	26.8177	65.2642	9.4960	.2504	3.5444
3.5	2.0642	1.2743	1.12	.5951	1.6805	.9600	.4798	.9749	1.0899	26.5579	64.1515	9.2169	.2548	3.4969
3.5	2.0642	1.2743	1.12	.5951	1.6805	.9900	.4876	1.0123	1.1284	26.2221	63.0839	8.9377	.2592	3.4493
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.0200	.4935	1.0503	1.1667	25.8204	62.0580	8.6585	.2637	3.4016
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.0500	.4977	1.0888	1.2049	25.3603	61.0709	8.3794	.2681	3.3538
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.0800	.5001	1.1280	1.2431	24.8476	60.1211	8.1002	.2726	3.3060
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.1100	.5009	1.1678	1.2812	24.2867	59.2075	7.8211	.2770	3.2580
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.1400	.5000	1.2083	1.3194	23.6809	58.3301	7.5419	.2813	3.2100
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.1700	.4974	1.2495	1.3578	23.0325	57.4894	7.2627	.2856	3.1619
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.2000	.4932	1.2915	1.3963	22.3431	56.6872	6.9836	.2899	3.1136
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.2300	.4873	1.3342	1.4351	21.6133	55.9260	6.7044	.2940	3.0652
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.2600	.4797	1.3777	1.4742	20.8433	55.2096	6.4253	.2979	3.0166
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.2900	.4704	1.4220	1.5136	20.0326	54.5437	6.1461	.3017	2.9678
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.3200	.4591	1.4672	1.5535	19.1797	53.9356	5.8669	.3053	2.9189
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.3500	.4460	1.5134	1.5939	18.2827	53.3959	5.5878	.3086	2.8697
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.3800	.4308	1.5605	1.6348	17.3386	52.9386	5.3086	.3116	2.8202
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.4100	.4135	1.6087	1.6765	16.3433	52.5836	5.0294	.3142	2.7704
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.4400	.3937	1.6580	1.7189	15.2913	52.3587	4.7503	.3163	2.7202
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.4700	.3713	1.7086	1.7622	14.1752	52.3048	4.4711	.3180	2.6696
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.5000	.3459	1.7604	1.8066	12.9846	52.4827	4.1920	.3190	2.6185
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.5300	.3170	1.8136	1.8521	11.7049	52.9884	3.9128	.3193	2.5668
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.5600	.2839	1.8683	1.8990	10.3137	53.9819	3.6336	.3187	2.5142
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.5900	.2454	1.9249	1.9476	8.7736	55.7546	3.3545	.3172	2.4608
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.6200	.1993	1.9833	1.9983	7.0122	58.9120	3.0753	.3146	2.4061
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.6500	.1397	2.0441	2.0514	4.8395	65.0649	2.7962	.3107	2.3499
3.5	2.0642	1.2743	1.12	.5951	1.6805	1.6800	.0178	2.1075	2.1076	.6064	86.2389	2.5170	.3054	2.2917
3.5	2.0642	1.2743	1.16	.6438	1.5533	.6500	.0712	.6157	.6194	6.2535	86.7813	11.8855	.2018	4.3115
3.5	2.0642	1.2743	1.16	.6438	1.5533	.6800	.1688	.6478	.6675	13.9409	82.2268	11.5964	.2050	4.2625
3.5	2.0642	1.2743	1.16	.6438	1.5533	.7100	.2240	.6803	.7134	17.5083	79.4837	11.3072	.2081	4.2135
3.5	2.0642	1.2743	1.16	.6438	1.5533	.7400	.2648	.7132	.7575	19.6858	77.3183	11.0181	.2113	4.1644
3.5	2.0642	1.2743	1.16	.6438	1.5533	.7700	.2971	.7466	.8002	21.1004	75.4716	10.7290	.2145	4.1153
3.5	2.0642	1.2743	1.16	.6438	1.5533	.8000	.3236	.7803	.8418	22.0253	73.8358	10.4398	.2177	4.0661
3.5	2.0642	1.2743	1.16	.6438	1.5533	.8300	.3456	.8145	.8823	22.6083	72.3539	10.1507	.2208	4.0169
3.5	2.0642	1.2743	1.16	.6438	1.5533	.8600	.3640	.8492	.9221	22.9387	70.9921	9.8616	.2240	3.9676
3.5	2.0642	1.2743	1.16	.6438	1.5533	.8900	.3792	.8843	.9613	23.0747	69.7285	9.5725	.2272	3.9182
3.5	2.0642	1.2743	1.16	.6438	1.5533	.9200	.3916	.9200	.9998	23.0563	68.5482	9.2833	.2304	3.8688
3.5	2.0642	1.2743	1.16	.6438	1.5533	.9500	.4015	.9561	1.0380	22.9116	67.4412	8.9942	.2335	3.8193
3.5	2.0642	1.2743	1.16	.6438	1.5533	.9800	.4092	.9928	1.0758	22.6611	66.4004	8.7051	.2365	3.7697
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.0100	.4146	1.0300	1.1134	22.3199	65.4215	8.4159	.2395	3.7200
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.0400	.4181	1.0677	1.1508	21.8993	64.5016	8.1268	.2425	3.6702
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.0700	.4195	1.1061	1.1880	21.4077	63.6401	7.8377	.2453	3.6203
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.1000	.4190	1.1450	1.2253	20.8511	62.8375	7.5485	.2481	3.5703
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.1300	.4165	1.1846	1.2625	20.2341	62.0963	7.2594	.2507	3.5201
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.1600	.4121	1.2249	1.2999	19.5592	61.4209	6.9703	.2532	3.4698
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.1900	.4058	1.2658	1.3373	18.8281	60.8177	6.6811	.2554	3.4193
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.2200	.3974	1.3074	1.3750	18.0410	60.2962	6.3920	.2575	3.3685
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.2500	.3869	1.3498	1.4130	17.1967	59.8694	6.1029	.2593	3.3176
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.2800	.3741	1.3930	1.4513	16.2928	59.5557	5.8138	.2609	3.2664
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.3100	.3590	1.4370	1.4900	15.3251	59.3805	5.5246	.2621	3.2148
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.3400	.3412	1.4820	1.5293	14.2870	59.3803	5.2355	.2629	3.1629
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.3700	.3206	1.5278	1.5691	13.1692	59.6083	4.9464	.2633	3.1106
3.5	2.0642	1.2743	1.16	.6438	1.5533	1.4000	.2965	1.5747	1.6096	11.9571	60.1455	4.6572	.2633	3.0578



LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1o	DELMAX	DEL	XMIN	XMAX	X(M2Uo)	Y(M2Vo)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.0	2.1381	1.3029	1.00	.4677	2.1381	.4700	.0599	.4373	.4408	7.2603	87.9442	18.4760	.1391	1.0429
1.0	2.1381	1.3029	1.00	.4677	2.1381	.5000	.2226	.4683	.5126	23.9945	82.2630	18.1617	.1431	1.0903
1.0	2.1381	1.3029	1.00	.4677	2.1381	.5300	.3061	.4997	.5770	30.0068	79.2234	17.8474	.1473	1.0378
1.0	2.1381	1.3029	1.00	.4677	2.1381	.5600	.3688	.5315	.6364	33.3709	76.8445	17.5331	.1517	1.0852
1.0	2.1381	1.3029	1.00	.4677	2.1381	.5900	.4203	.5638	.6922	35.4623	74.8121	17.2188	.1562	1.0327
1.0	2.1381	1.3029	1.00	.4677	2.1381	.6200	.4641	.5966	.7452	36.8170	73.0008	16.9045	.1610	1.0801
1.0	2.1381	1.3029	1.00	.4677	2.1381	.6500	.5024	.6298	.7960	37.6999	71.3455	16.5902	.1659	1.1276
1.0	2.1381	1.3029	1.00	.4677	2.1381	.6800	.5363	.6636	.8451	38.2601	69.8073	16.2759	.1711	1.1750
1.0	2.1381	1.3029	1.00	.4677	2.1381	.7100	.5666	.6979	.8929	38.5887	68.3606	15.9616	.1764	1.2224
1.0	2.1381	1.3029	1.00	.4677	2.1381	.7400	.5938	.7327	.9395	38.7449	66.9878	15.6473	.1820	1.2699
1.0	2.1381	1.3029	1.00	.4677	2.1381	.7700	.6184	.7681	.9852	38.7691	65.6758	15.3330	.1879	1.3173
1.0	2.1381	1.3029	1.00	.4677	2.1381	.8000	.6407	.8041	1.0301	38.6897	64.4147	15.0187	.1940	1.3647
1.0	2.1381	1.3029	1.00	.4677	2.1381	.8300	.6609	.8406	1.0745	38.5273	63.1968	14.7044	.2004	1.4121
1.0	2.1381	1.3029	1.00	.4677	2.1381	.8600	.6791	.8778	1.1185	38.2972	62.0159	14.3901	.2071	1.4594
1.0	2.1381	1.3029	1.00	.4677	2.1381	.8900	.6956	.9156	1.1621	38.0110	60.8671	14.0758	.2141	1.5068
1.0	2.1381	1.3029	1.00	.4677	2.1381	.9200	.7105	.9541	1.2055	37.6776	59.7460	13.7615	.2214	1.5542
1.0	2.1381	1.3029	1.00	.4677	2.1381	.9500	.7238	.9933	1.2488	37.3040	58.6493	13.4472	.2290	1.6015
1.0	2.1381	1.3029	1.00	.4677	2.1381	.9800	.7357	1.0332	1.2919	36.8957	57.5739	13.1329	.2370	1.6489
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.0100	.7462	1.0738	1.3351	36.4569	56.5170	12.8186	.2454	1.0962
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.0400	.7554	1.1153	1.3784	35.9912	55.4765	12.5043	.2543	1.0435
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.0700	.7633	1.1575	1.4218	35.5013	54.4503	12.1900	.2635	2.9908
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.1000	.7699	1.2006	1.4655	34.9895	53.4366	11.8757	.2732	2.9380
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.1300	.7754	1.2446	1.5094	34.4575	52.4336	11.5614	.2834	2.8853
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.1600	.7797	1.2894	1.5537	33.9068	51.4398	11.2471	.2941	2.8325
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.1900	.7828	1.3353	1.5983	33.3385	50.4539	10.9328	.3053	2.7798
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.2200	.7848	1.3822	1.6434	32.7534	49.4745	10.6185	.3171	2.7269
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.2500	.7857	1.4301	1.6891	32.1521	48.5003	10.3042	.3295	2.6741
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.2800	.7855	1.4791	1.7354	31.5351	47.5302	9.9899	.3426	2.6213
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.3100	.7841	1.5292	1.7823	30.9027	46.5629	9.6756	.3564	2.5684
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.3400	.7816	1.5806	1.8299	30.2549	45.5975	9.3613	.3708	2.5154
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.3700	.7780	1.6333	1.8783	29.5916	44.6327	9.0470	.3861	2.4625
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.4000	.7732	1.6873	1.9276	28.9126	43.6675	8.7327	.4022	2.4095
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.4300	.7673	1.7428	1.9778	28.2177	42.7008	8.4184	.4191	2.3564
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.4600	.7602	1.7997	2.0291	27.5063	41.7315	8.1041	.4370	2.3033
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.4900	.7519	1.8583	2.0815	26.7777	40.7584	7.7898	.4558	2.2502
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.5200	.7424	1.9185	2.1351	26.0311	39.7803	7.4755	.4756	2.1969
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.5500	.7315	1.9806	2.1901	25.2655	38.7960	7.1612	.4965	2.1436
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.5800	.7194	2.0445	2.2465	24.4798	37.8043	6.8469	.5185	2.0903
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.6100	.7058	2.1105	2.3044	23.6725	36.8036	6.5326	.5417	2.0368
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.6400	.6908	2.1787	2.3641	22.8420	35.7926	6.2183	.5661	1.9832
1.0	2.1381	1.3029	1.00	.4577	2.1381	1.6700	.6743	2.2492	2.4256	21.9863	34.7695	5.9040	.5917	1.9295
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.7000	.6561	2.3222	2.4892	21.1031	33.7326	5.5897	.6185	1.8757
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.7300	.6362	2.3980	2.5550	20.1895	32.6799	5.2754	.6465	1.8217
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.7600	.6144	2.4767	2.6232	19.2424	31.6091	4.9611	.6758	1.7675
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.7900	.5905	2.5586	2.6943	18.2578	30.5177	4.6468	.7063	1.7130
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.8200	.5645	2.6441	2.7683	17.2308	29.4028	4.3325	.7378	1.6583
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.8500	.5359	2.7335	2.8458	16.1555	28.2609	4.0182	.7701	1.6032
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.8800	.5046	2.8272	2.9272	15.0246	27.0881	3.7039	.8031	1.5477
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.9100	.4702	2.9258	3.0131	13.8288	25.8795	3.3896	.8363	1.4916
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.9400	.4321	3.0300	3.1042	12.5561	24.6294	3.0753	.8692	1.4348
1.0	2.1381	1.3029	1.00	.4677	2.1381	1.9700	.3897	3.1407	3.2016	11.1906	23.3303	2.7610	.9011	1.3770
1.0	2.1381	1.3029	1.00	.4677	2.1381	2.0000	.3422	3.2592	3.3065	9.7107	21.9730	2.4467	.9308	1.3180
1.0	2.1381	1.3029	1.00	.4677	2.1381	2.0300	.2884	3.3872	3.4212	8.0859	20.5454	2.1324	.9572	1.2571
1.0	2.1381	1.3029	1.00	.4677	2.1381	2.0600	.2264	3.5275	3.5488	6.2716	19.0310	1.8181	.9786	1.1936
1.0	2.1381	1.3029	1.00	.4677	2.1381	2.0900	.1534	3.6850	3.6949	4.1977	17.4065	1.5038	.9931	1.1259
1.0	2.1381	1.3029	1.00	.4677	2.1381	2.1200	.0646	3.8687	3.8705	1.7462	15.6370	1.1895	.9995	1.0510
1.0	2.1381	1.3029	1.00	.4982	2.0074	.5000	.0511	.4664	.4688	5.8314	88.1681	17.9521	.1374	1.3515
1.0	2.1381	1.3029	1.00	.4982	2.0074	.5300	.2097	.4975	.5350	21.5856	82.3762	17.6253	.1411	1.2988
1.0	2.1381	1.3029	1.00	.4982	2.0074	.5600	.2890	.5290	.5953	27.2998	79.3469	17.2984	.1448	1.2420
1.0	2.1381	1.3029	1.00	.4982	2.0074	.5900	.3483	.5610	.6515	30.5564	76.9820	16.9715	.1487	1.1875
1.0	2.1381	1.3029	1.00	.4982	2.0074	.6200	.3966	.5934	.7044	32.6088	74.9640	16.6447	.1527	1.1326

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4.0	2.1381	1.3029	1.16	.6118	1.6346	1.4800	.3441	1.6859	1.7321	13.2635	56.7627	5.6568	.1930	3.5392
4.0	2.1381	1.3029	1.16	.6118	1.6346	1.4900	.3160	1.7368	1.7754	11.9741	57.4549	5.2922	.1929	3.4663
4.0	2.1381	1.3029	1.16	.6118	1.6346	1.5200	.2833	1.7890	1.8198	10.5574	58.6582	4.9276	.1922	3.3917
4.0	2.1381	1.3029	1.16	.6118	1.6346	1.5500	.2445	1.8427	1.8655	8.9657	60.6659	4.5630	.1909	3.3322
4.0	2.1381	1.3029	1.16	.6118	1.6346	1.5800	.1968	1.8980	1.9127	7.1012	64.0892	4.1984	.1889	3.2636
4.0	2.1381	1.3029	1.16	.6118	1.6346	1.6100	.1319	1.9551	1.9617	4.6842	70.6271	3.8338	.1862	3.1936
4.0	2.1381	1.3029	1.20	.6628	1.5087	.6700	.0744	6362	.6401	6.3396	86.6765	14.9768	.1299	5.5899
4.0	2.1381	1.3029	1.20	.6628	1.5087	.7000	.1664	6685	.6871	13.3684	82.4302	14.5996	.1319	5.5262
4.0	2.1381	1.3029	1.20	.6628	1.5087	.7300	.2192	7012	.7321	16.7144	79.8285	14.2225	.1338	5.4624
4.0	2.1381	1.3029	1.20	.6628	1.5087	.7600	.2582	.7343	.7756	18.7664	77.7747	13.8453	.1357	5.3986
4.0	2.1381	1.3029	1.20	.6628	1.5087	.7900	.2891	7679	.8177	20.0984	76.0277	13.4681	.1376	5.3347
4.0	2.1381	1.3029	1.20	.6628	1.5087	.8200	.3142	8019	.8587	20.9637	74.4861	13.0910	.1395	5.2707
4.0	2.1381	1.3029	1.20	.6628	1.5087	.8500	.3348	8363	.8988	21.5000	73.0966	12.7138	.1414	5.2067
4.0	2.1381	1.3029	1.20	.6628	1.5087	.8800	.3518	8712	.9382	21.7915	71.8274	12.3367	.1433	5.1426
4.0	2.1381	1.3029	1.20	.6628	1.5087	.9100	.3657	9065	.9770	21.8929	70.6582	11.9595	.1452	5.0785
4.0	2.1381	1.3029	1.20	.6628	1.5087	.9400	.3768	.9424	1.0153	21.8420	69.5758	11.5823	.1470	5.0142
4.0	2.1381	1.3029	1.20	.6628	1.5087	.9700	.3853	.9788	1.0532	21.6653	68.5714	11.2052	.1488	4.9499
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.0000	.3915	1.0157	1.0908	21.3821	67.6396	10.8280	.1505	4.8855
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.0300	.3955	1.0531	1.1281	21.0065	66.7774	10.4509	.1522	4.8209
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.0600	.3973	1.0912	1.1653	20.5489	65.9842	10.0737	.1538	4.7563
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.0900	.3971	1.1298	1.2024	20.0168	65.2614	9.6966	.1553	4.6915
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.1200	.3947	1.1690	1.2395	19.4152	64.6124	9.3194	.1568	4.6265
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.1500	.3903	1.2088	1.2766	18.7473	64.0434	8.9422	.1581	4.5614
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.1800	.3837	1.2493	1.3138	18.0148	63.5633	8.5651	.1593	4.4960
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.2100	.3750	1.2906	1.3511	17.2173	63.1849	8.1879	.1603	4.4305
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.2400	.3638	1.3325	1.3887	16.3528	62.9259	7.8108	.1611	4.3647
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.2700	.3502	1.3752	1.4265	15.4172	62.8114	7.4336	.1617	4.2986
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.3000	.3339	1.4187	1.4647	14.4039	62.8768	7.0564	.1621	4.2321
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.3300	.3145	1.4630	1.5033	13.3021	63.1738	6.6793	.1623	4.1653
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.3600	.2915	1.5082	1.5425	12.0958	63.7804	6.3021	.1621	4.0980
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.3900	.2641	1.5544	1.5822	10.7586	64.8207	5.9250	.1616	4.0301
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.4200	.2311	1.6016	1.6227	9.2449	66.5092	5.5478	.1606	3.9616
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.4500	.1899	1.6500	1.6641	7.4630	69.2670	5.1706	.1593	3.8923
4.0	2.1381	1.3029	1.20	.6628	1.5087	1.4800	.1338	1.6995	1.7065	5.1667	74.1643	4.7935	.1574	3.8220
4.0	2.1381	1.3029	1.24	.7282	1.3732	.7300	.0326	.6982	.6989	2.5561	88.4314	13.9165	.1270	5.8852
4.0	2.1381	1.3029	1.24	.7282	1.3732	.7600	.1336	.7310	.7422	9.9677	83.4321	13.5268	.1284	5.8170
4.0	2.1381	1.3029	1.24	.7282	1.3732	.7900	.1813	.7642	.7841	12.9279	80.8836	13.1371	.1298	5.7508
4.0	2.1381	1.3029	1.24	.7282	1.3732	.8200	.2149	.7979	.8248	14.6882	78.9442	12.7474	.1312	5.6845
4.0	2.1381	1.3029	1.24	.7282	1.3732	.8500	.2404	.8319	.8646	15.7925	77.3379	12.3576	.1325	5.6181
4.0	2.1381	1.3029	1.24	.7282	1.3732	.8800	.2601	.8664	.9035	16.4688	75.9570	11.9679	.1338	5.5516
4.0	2.1381	1.3029	1.24	.7282	1.3732	.9100	.2754	.9014	.9418	16.8386	74.7479	11.5782	.1350	5.4850
4.0	2.1381	1.3029	1.24	.7282	1.3732	.9400	.2869	.9368	.9795	16.9751	73.6812	11.1884	.1362	5.4183
4.0	2.1381	1.3029	1.24	.7282	1.3732	.9700	.2952	.9727	1.0168	16.9255	72.7402	10.7987	.1373	5.3514
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.0000	.3004	1.0091	1.0537	16.7218	71.9165	10.4090	.1383	5.2845
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.0300	.3029	1.0461	1.0904	16.3857	71.2079	10.0192	.1392	5.2173
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.0600	.3026	1.0836	1.1269	15.9318	70.6172	9.6295	.1400	5.1500
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.0900	.2996	1.1216	1.1632	15.3697	70.1527	9.2398	.1407	5.0825
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.1200	.2939	1.1602	1.1995	14.7041	69.8286	8.8500	.1413	5.0148
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.1500	.2854	1.1995	1.2356	13.9360	69.6667	8.4603	.1416	4.9468
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.1800	.2738	1.2393	1.2723	13.0615	69.6999	8.0706	.1418	4.8786
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.2100	.2588	1.2799	1.3088	12.0713	69.9768	7.6808	.1419	4.8100
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.2400	.2399	1.3211	1.3456	10.9474	70.5728	7.2911	.1416	4.7411
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.2700	.2161	1.3631	1.3827	9.6576	71.6102	6.9014	.1412	4.6717
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.3000	.1859	1.4058	1.4202	8.1391	73.3089	6.5117	.1404	4.6017
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.3300	.1456	1.4494	1.4581	6.2474	76.1391	6.1219	.1393	4.5312
4.0	2.1381	1.3029	1.24	.7282	1.3732	1.3600	.0819	1.4939	1.4966	3.4482	81.6756	5.7322	.1379	4.4599
4.0	2.1381	1.3029	1.28	.8279	1.2079	.8300	.0269	8054	.8058	1.8540	88.5479	12.2696	.1239	6.0904
4.0	2.1381	1.3029	1.28	.8279	1.2079	.8600	.1004	8392	.8450	6.6611	84.4298	11.8673	.1247	6.0215
4.0	2.1381	1.3029	1.28	.8279	1.2079	.8900	.1333	8735	.8833	8.5168	82.4072	11.4650	.1254	5.9525
4.0	2.1381	1.3029	1.28	.8279	1.2079	.9200	.1541	9083	.9209	9.5117	80.9687	11.0627	.1261	5.8833
4.0	2.1381	1.3029	1.28	.8279	1.2079	.9500	.1676	9435	.9580	10.0065	79.8874	10.6604	.1266	5.8140
4.0	2.1381	1.3029	1.28	.8279	1.2079	.9800	.1755	.9791	.9947	10.1504	79.0849	10.2581	.1271	5.7445
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.0100	.1784	1.0153	1.0310	10.0194	78.5350	9.8558	.1274	5.6748
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.0400	.1769	1.0519	1.0671	9.6531	78.2416	9.4535	.1277	5.6049
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.0700	.1708	1.0891	1.1029	9.0672	78.2343	9.0512	.1277	5.5348
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.1000	.1596	1.1269	1.1387	8.2554	78.5761	8.6489	.1277	5.4643
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.1300	.1424	1.1652	1.1744	7.1806	79.3879	8.2466	.1274	5.3936
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.1600	.1166	1.2041	1.2101	5.7383	80.9255	7.8443	.1269	5.3225
4.0	2.1381	1.3029	1.28	.8279	1.2079	1.1900	.0741	1.2436	1.2460	3.5609	83.9596	7.4420	.1263	5.2509

4

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1o	DELMAX	DEL	XMIN	XMAX	X(M2Uo)	Y(M2Vo)	2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.5	2.1936	1.3247	1.00	.4559	2.1936	.4600	.0825	.4278	.4346	10.1652	87.2761	23.4050	.0921	1.8662
1.5	2.1936	1.3247	1.00	.4559	2.1936	.4900	.2350	.4587	.5088	25.6200	82.1467	23.0173	.0949	1.8014
1.5	2.1936	1.3247	1.00	.4559	2.1936	.5200	.3191	.4901	.5751	31.5365	79.2048	22.6295	.0978	1.7367
1.5	2.1936	1.3247	1.00	.4559	2.1936	.5500	.3830	.5220	.6361	34.8488	76.8842	22.2418	.1009	1.6720
1.5	2.1936	1.3247	1.00	.4559	2.1936	.5800	.4355	.5543	.6932	36.9031	74.8953	21.8541	.1041	1.6072
1.5	2.1936	1.3247	1.00	.4559	2.1936	.6100	.4805	.5871	.7474	38.2298	73.1199	21.4664	.1075	1.5425
1.5	2.1936	1.3247	1.00	.4559	2.1936	.6400	.5200	.6205	.7994	39.0914	71.4958	21.0787	.1110	1.4777
1.5	2.1936	1.3247	1.00	.4559	2.1936	.6700	.5550	.6543	.8496	39.6357	69.9857	20.6909	.1146	1.4129
1.5	2.1936	1.3247	1.00	.4559	2.1936	.7000	.5864	.6887	.8983	39.9527	68.5651	20.3032	.1184	1.3482
1.5	2.1936	1.3247	1.00	.4559	2.1936	.7300	.6147	.7236	.9460	40.1011	67.2167	19.9155	.1224	1.2834
1.5	2.1936	1.3247	1.00	.4559	2.1936	.7600	.6404	.7591	.9927	40.1206	65.9278	19.5278	.1266	1.2186
1.5	2.1936	1.3247	1.00	.4559	2.1936	.7900	.6638	.7952	1.0386	40.0392	64.6890	19.1401	.1310	1.1538
1.5	2.1936	1.3247	1.00	.4559	2.1936	.8200	.6851	.8319	1.0840	39.8772	63.4927	18.7524	.1356	1.0890
1.5	2.1936	1.3247	1.00	.4559	2.1936	.8500	.7044	.8692	1.1289	39.6497	62.3329	18.3646	.1405	1.0243
1.5	2.1936	1.3247	1.00	.4559	2.1936	.8800	.7220	.9072	1.1735	39.3680	61.2047	17.9769	.1455	0.9594
1.5	2.1936	1.3247	1.00	.4559	2.1936	.9100	.7380	.9459	1.2179	39.0410	60.1041	17.5892	.1509	0.8946
1.5	2.1936	1.3247	1.00	.4559	2.1936	.9400	.7524	.9854	1.2622	38.6754	59.0275	17.2015	.1565	0.8298
1.5	2.1936	1.3247	1.00	.4559	2.1936	.9700	.7654	1.0255	1.3064	38.2767	57.9721	16.8138	.1624	0.7650
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.0000	.7770	1.0665	1.3506	37.8490	56.9354	16.4260	.1686	0.7001
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.0300	.7874	1.1082	1.3949	37.3958	55.9149	16.0383	.1751	0.6353
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.0600	.7964	1.1508	1.4394	36.9199	54.9089	15.6506	.1820	0.5704
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.0900	.8043	1.1943	1.4842	36.4235	53.9154	15.2629	.1892	0.5055
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.1200	.8110	1.2387	1.5293	35.9083	52.9328	14.8752	.1969	0.4406
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.1500	.8165	1.2840	1.5748	35.3758	51.9598	14.4874	.2050	0.3757
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.1800	.8209	1.3304	1.6207	34.8270	50.9949	14.0997	.2135	0.3108
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.2100	.8243	1.3778	1.6671	34.2630	50.0369	13.7120	.2226	0.2459
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.2400	.8265	1.4263	1.7140	33.6843	49.0845	13.3243	.2321	0.1809
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.2700	.8276	1.4759	1.7617	33.0915	48.1366	12.9366	.2422	0.1160
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.3000	.8277	1.5268	1.8100	32.4849	47.1922	12.5489	.2530	0.0510
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.3300	.8267	1.5789	1.8591	31.8647	46.2501	12.1611	.2644	2.9859
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.3600	.8246	1.6324	1.9091	31.2308	45.3094	11.7734	.2764	2.9209
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.3900	.8215	1.6873	1.9600	30.5833	44.3691	11.3857	.2893	2.8558
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.4200	.8173	1.7438	2.0119	29.9219	43.4280	10.9980	.3029	2.7907
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.4500	.8119	1.8018	2.0650	29.2463	42.4853	10.6103	.3174	2.7256
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.4800	.8055	1.8614	2.1192	28.5561	41.5398	10.2225	.3329	2.6604
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.5100	.7978	1.9229	2.1748	27.8506	40.5905	9.8348	.3493	2.5952
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.5400	.7890	1.9862	2.2317	27.1292	39.6363	9.4471	.3668	2.5299
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.5700	.7790	2.0516	2.2903	26.3910	38.6761	9.0594	.3855	2.4646
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.6000	.7678	2.1191	2.3504	25.6350	37.7085	8.6717	.4054	2.3992
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.6300	.7552	2.1889	2.4124	24.8599	36.7324	8.2839	.4267	2.3337
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.6600	.7413	2.2611	2.4764	24.0645	35.7463	7.8962	.4493	2.2682
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.6900	.7260	2.3360	2.5425	23.2469	34.7487	7.5085	.4735	2.2025
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.7200	.7091	2.4138	2.6109	22.4052	33.7379	7.1208	.4993	2.1368
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.7500	.6907	2.4947	2.6819	21.5372	32.7122	6.7331	.5268	2.0709
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.7800	.6705	2.5789	2.7557	20.6401	31.6693	6.3454	.5561	2.0049
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.8100	.6485	2.6667	2.8327	19.7106	30.6070	5.9576	.5872	1.9387
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.8400	.6244	2.7586	2.9131	18.7449	29.5225	5.5699	.6202	1.8723
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.8700	.5982	2.8548	2.9973	17.7381	28.4129	5.1822	.6551	1.8056
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.9000	.5695	2.9560	3.0859	16.6844	27.2744	4.7945	.6918	1.7386
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.9300	.5380	3.0626	3.1794	15.5764	26.1027	4.4068	.7303	1.6713
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.9600	.5034	3.1754	3.2785	14.4048	24.8926	4.0190	.7701	1.6033
1.5	2.1936	1.3247	1.00	.4559	2.1936	1.9900	.4652	3.2952	3.3841	13.1574	23.6376	3.6313	.8108	1.5348
1.5	2.1936	1.3247	1.00	.4559	2.1936	2.0200	.4227	3.4233	3.4974	11.8179	22.3296	3.2436	.8517	1.4655
1.5	2.1936	1.3247	1.00	.4559	2.1936	2.0500	.3749	3.5611	3.6202	10.3639	20.9581	2.8559	.8916	1.3946
1.5	2.1936	1.3247	1.00	.4559	2.1936	2.0800	.3206	3.7110	3.7548	8.7632	19.5091	2.4682	.9289	1.3221
1.5	2.1936	1.3247	1.00	.4559	2.1936	2.1100	.2579	3.8764	3.9052	6.9674	17.9634	2.0804	.9612	1.2469
1.5	2.1936	1.3247	1.00	.4559	2.1936	2.1400	.1834	4.0635	4.0784	4.8980	16.2926	1.6927	.9853	1.1672
1.5	2.1936	1.3247	1.00	.4559	2.1936	2.1700	.0916	4.2843	4.2881	2.4162	14.4530	1.3050	.9981	1.0796

2.1936	1.3247	1.08	.5163	1.9369	.6400	.3891	.6136	.7181	31.2953	75.1835	20.4170	.0995	5.3396
2.1936	1.3247	1.08	.5163	1.9369	.6700	.4284	.6466	.7675	32.5921	73.4426	19.9982	.1020	5.2695
2.1936	1.3247	1.08	.5163	1.9369	.7000	.4624	.6801	.8151	33.4482	71.8526	19.5795	.1047	5.1994
2.1936	1.3247	1.08	.5163	1.9369	.7300	.4923	.7141	.8614	33.9960	70.3765	19.1607	.1074	5.1292
2.1936	1.3247	1.08	.5163	1.9369	.7600	.5188	.7486	.9064	34.3183	68.9900	18.7420	.1103	5.0591
2.1936	1.3247	1.08	.5163	1.9369	.7900	.5423	.7836	.9505	34.4698	67.6762	18.3233	.1132	4.9889
2.1936	1.3247	1.08	.5163	1.9369	.8200	.5633	.8192	.9938	34.4884	66.4227	17.9045	.1163	4.9187
2.1936	1.3247	1.08	.5163	1.9369	.8500	.5820	.8553	1.0365	34.4011	65.2202	17.4858	.1194	4.8485
2.1936	1.3247	1.08	.5163	1.9369	.8800	.5987	.8919	1.0788	34.2277	64.0613	17.0671	.1227	4.7782
2.1936	1.3247	1.08	.5163	1.9369	.9100	.6134	.9292	1.1206	33.9830	62.9404	16.6483	.1260	4.7080
2.1936	1.3247	1.08	.5163	1.9369	.9400	.6264	.9671	1.1621	33.6784	61.8526	16.2296	.1295	4.6377
2.1936	1.3247	1.08	.5163	1.9369	.9700	.6377	1.0056	1.2034	33.3225	60.7943	15.8109	.1331	4.5674
2.1936	1.3247	1.08	.5163	1.9369	1.0000	.6475	1.0448	1.2446	32.9223	59.7621	15.3921	.1368	4.4970
2.1936	1.3247	1.08	.5163	1.9369	1.0300	.6558	1.0846	1.2858	32.4829	58.7535	14.9734	.1406	4.4267
2.1936	1.3247	1.08	.5163	1.9369	1.0600	.6626	1.1252	1.3269	32.0087	57.7662	14.5547	.1446	4.3563
2.1936	1.3247	1.08	.5163	1.9369	1.0900	.6680	1.1665	1.3682	31.5031	56.7982	14.1359	.1487	4.2858
2.1936	1.3247	1.08	.5163	1.9369	1.1200	.6721	1.2086	1.4095	30.9686	55.8481	13.7172	.1529	4.2154
2.1936	1.3247	1.08	.5163	1.9369	1.1500	.6749	1.2515	1.4511	30.4073	54.9143	13.2984	.1572	4.1448
2.1936	1.3247	1.08	.5163	1.9369	1.1800	.6764	1.2952	1.4929	29.8209	53.9959	12.8797	.1617	4.0743
2.1936	1.3247	1.08	.5163	1.9369	1.2100	.6765	1.3398	1.5350	29.2104	53.0919	12.4610	.1663	4.0037
2.1936	1.3247	1.08	.5163	1.9369	1.2400	.6754	1.3853	1.5775	28.5767	52.2016	12.0422	.1711	3.9330
2.1936	1.3247	1.08	.5163	1.9369	1.2700	.6730	1.4317	1.6203	27.9204	51.3246	11.6235	.1759	3.8622
2.1936	1.3247	1.08	.5163	1.9369	1.3000	.6693	1.4792	1.6637	27.2416	50.4607	11.2048	.1809	3.7914
2.1936	1.3247	1.08	.5163	1.9369	1.3300	.6643	1.5277	1.7076	26.5403	49.6097	10.7860	.1861	3.7206
2.1936	1.3247	1.08	.5163	1.9369	1.3600	.6579	1.5772	1.7521	25.8161	48.7719	10.3673	.1913	3.6496
2.1936	1.3247	1.08	.5163	1.9369	1.3900	.6502	1.6280	1.7973	25.0686	47.9479	9.9486	.1967	3.5785
2.1936	1.3247	1.08	.5163	1.9369	1.4200	.6411	1.6799	1.8431	24.2968	47.1386	9.5298	.2021	3.5073
2.1936	1.3247	1.08	.5163	1.9369	1.4500	.6305	1.7331	1.8898	23.4996	46.3454	9.1111	.2077	3.4360
2.1936	1.3247	1.08	.5163	1.9369	1.4800	.6184	1.7876	1.9374	22.6756	45.5704	8.6923	.2132	3.3646
2.1936	1.3247	1.08	.5163	1.9369	1.5100	.6047	1.8436	1.9859	21.8229	44.8163	8.2736	.2188	3.2930
2.1936	1.3247	1.08	.5163	1.9369	1.5400	.5893	1.9010	2.0355	20.9393	44.0870	7.8549	.2244	3.2212
2.1936	1.3247	1.08	.5163	1.9369	1.5700	.5721	1.9601	2.0862	20.0220	43.3879	7.4361	.2300	3.1491
2.1936	1.3247	1.08	.5163	1.9369	1.6000	.5530	2.0209	2.1382	19.0675	42.7262	7.0174	.2354	3.0769
2.1936	1.3247	1.08	.5163	1.9369	1.6300	.5319	2.0835	2.1916	18.0717	42.1123	6.5987	.2406	3.0043
2.1936	1.3247	1.08	.5163	1.9369	1.6600	.5084	2.1481	2.2466	17.0293	41.5608	6.1799	.2456	2.9313
2.1936	1.3247	1.08	.5163	1.9369	1.6900	.4825	2.2148	2.3033	15.9337	41.0930	5.7612	.2502	2.8579
2.1936	1.3247	1.08	.5163	1.9369	1.7200	.4537	2.2839	2.3620	14.7764	40.7408	5.3425	.2543	2.7839
2.1936	1.3247	1.08	.5163	1.9369	1.7500	.4216	2.3555	2.4229	13.5461	40.5542	4.9237	.2578	2.7093
2.1936	1.3247	1.08	.5163	1.9369	1.7800	.3857	2.4300	2.4864	12.2273	40.6150	4.5050	.2604	2.6338
2.1936	1.3247	1.08	.5163	1.9369	1.8100	.3452	2.5077	2.5529	10.7980	41.0667	4.0862	.2619	2.5571
2.1936	1.3247	1.08	.5163	1.9369	1.8400	.2988	2.5892	2.6231	9.2233	42.1867	3.6675	.2621	2.4790
2.1936	1.3247	1.08	.5163	1.9369	1.8700	.2443	2.6750	2.6977	7.4417	44.5913	3.2488	.2604	2.3988
2.1936	1.3247	1.08	.5163	1.9369	1.9000	.1767	2.7663	2.7782	5.3122	50.0337	2.8300	.2567	2.3157
2.1936	1.3247	1.08	.5163	1.9369	1.9300	.0733	2.8645	2.8666	2.1738	67.9412	2.4113	.2502	2.2282

2.1936	1.3247	1.12	.5511	1.8145	.5600	.1026	.5256	.5344	10.3834	86.1196	21.2441	.0892	5.9925
2.1936	1.3247	1.12	.5511	1.8145	.5900	.2120	.5572	.5920	19.7670	81.8621	20.8098	.0911	5.9197
2.1936	1.3247	1.12	.5511	1.8145	.6200	.2786	.5891	.6458	24.1944	79.1453	20.3756	.0932	5.8469
2.1936	1.3247	1.12	.5511	1.8145	.6500	.3293	.6215	.6967	26.8697	76.9671	19.9414	.0953	5.7741
2.1936	1.3247	1.12	.5511	1.8145	.6800	.3709	.6543	.7453	28.6073	75.0894	19.5071	.0975	5.7013
2.1936	1.3247	1.12	.5511	1.8145	.7100	.4060	.6876	.7921	29.7622	73.4099	19.0729	.0997	5.6285
2.1936	1.3247	1.12	.5511	1.8145	.7400	.4363	.7213	.8374	30.5231	71.8735	18.6386	.1019	5.5556
2.1936	1.3247	1.12	.5511	1.8145	.7700	.4627	.7556	.8815	31.0022	70.4464	18.2044	.1043	5.4827
2.1936	1.3247	1.12	.5511	1.8145	.8000	.4859	.7903	.9246	31.2712	69.1064	17.7701	.1067	5.4098
2.1936	1.3247	1.12	.5511	1.8145	.8300	.5062	.8255	.9669	31.3786	67.8376	17.3359	.1091	5.3368
2.1936	1.3247	1.12	.5511	1.8145	.8600	.5241	.8612	1.0085	31.3582	66.6288	16.9016	.1117	5.2639
2.1936	1.3247	1.12	.5511	1.8145	.8900	.5397	.8975	1.0497	31.2343	65.4712	16.4674	.1142	5.1909
2.1936	1.3247	1.12	.5511	1.8145	.9200	.5533	.9344	1.0904	31.0253	64.3582	16.0332	.1169	5.1178
2.1936	1.3247	1.12	.5511	1.8145	.9500	.5651	.9718	1.1307	30.7446	63.2845	15.5989	.1196	5.0448
2.1936	1.3247	1.12	.5511	1.8145	.9800	.5750	1.0098	1.1708	30.4027	62.2460	15.1647	.1224	4.9716
2.1936	1.3247	1.12	.5511	1.8145	1.0100	.5833	1.0485	1.2108	30.0077	61.2394	14.7304	.1252	4.8985
2.1936	1.3247	1.12	.5511	1.8145	1.0400	.5900	1.0878	1.2506	29.5659	60.2619	14.2962	.1281	4.8253
2.1936	1.3247	1.12	.5511	1.8145	1.0700	.5951	1.1278	1.2905	29.0822	59.3116	13.8619	.1310	4.7520
2.1936	1.3247	1.12	.5511	1.8145	1.1000	.5988	1.1684	1.3303	28.5604	58.3869	13.4277	.1340	4.6787
2.1936	1.3247	1.12	.5511	1.8145	1.1300	.6009	1.2098	1.3702	28.0034	57.4864	12.9934	.1370	4.6053
2.1936	1.3247	1.12	.5511	1.8145	1.1600	.6016	1.2520	1.4103	27.4135	56.6096	12.5592	.1401	4.5319
2.1936	1.3247	1.12	.5511	1.8145	1.1900	.6009	1.2949	1.4506	26.7923	55.7560	12.1249	.1432	4.4584
2.1936	1.3247	1.12	.5511	1.8145	1.2200	.5988	1.3386	1.4912	26.1410	54.9258	11.6907	.1464	4.3848
2.1936	1.3247	1.12	.5511	1.8145	1.2500	.5952	1.3832	1.5320	25.4602	54.1193	11.2565	.1496	4.3111
2.1936	1.3247	1.12	.5511	1.8145	1.2800	.5901	1.4287	1.5732	24.7501	53.3377	10.8222	.1528	4.2375
2.1936	1.3247	1.12	.5511	1.8145	1.3100	.5835	1.4751	1.6148	24.0106	52.5826	10.3880	.1560	4.1638
2.1936	1.3247	1.12	.5511	1.8145	1.3400	.5755	1.5225	1.6569	23.2410	51.8562	9.9537	.1591	4.0895
2.1936	1.3247	1.12	.5511	1.8145	1.3700	.5658	1.5709	1.6996	22.4404	51.1619	9.5195	.1623	4.0151
2.1936	1.3247	1.12	.5511	1.8145	1.4000	.5545	1.6204	1.7428	21.6072	50.5039	9.0852	.1653	3.9408
2.1936	1.3247	1.12	.5511	1.8145	1.4300	.5415	1.6710	1.7867	20.7395	49.8882	8.6510	.1683	3.8662
2.1936	1.3247	1.12	.5511	1.8145	1.4600	.5266	1.7228	1.8314	19.8347	49.3228	8.2167	.1712	3.7914
2.1936	1.3247	1.12	.5511	1.8145	1.4900	.5098	1.7758	1.8769	18.8895	48.8184	7.7825	.1739	3.7163
2.1936	1.3247	1.12	.5511	1.8145	1.5200	.4909	1.8302	1.9233	17.8996	48.3899	7.3482	.1764	3.6410
2.1936	1.3247	1.12	.5511	1.8145	1.5500	.4697	1.8861	1.9708	16.8597	48.0580	6.9140	.1786	3.5652
2.1936	1.3247	1.12	.5511	1.8145	1.5800	.4460	1.9435	2.0194	15.7627	47.8525	6.4798	.1806	3.4891
2.1936	1.3247	1.12	.5511	1.8145	1.6100	.4193	2.0025	2.0693	14.5982	47.7823			

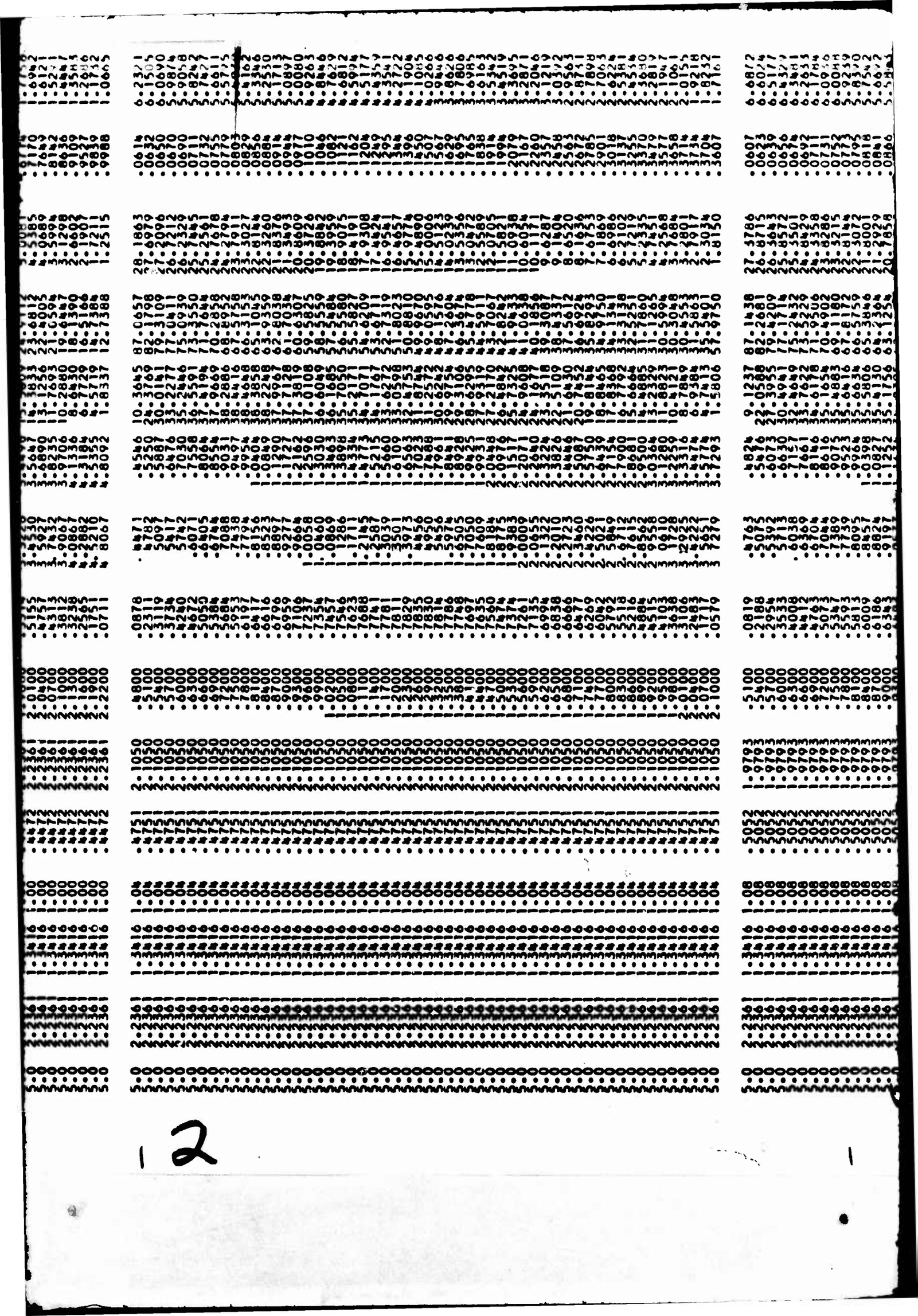
4.5	2.1936	1.3247	1.12	.5511	1.8145	1.4600	.5266	1.7228	1.8314	19.8347	49.3228	8.2167	.1712	3.7914
4.5	2.1936	1.3247	1.12	.5511	1.8145	1.4900	.5098	1.7758	1.8769	18.8895	48.8184	7.7825	.1739	3.7163
4.5	2.1936	1.3247	1.12	.5511	1.8145	1.5200	.4909	1.8302	1.9233	17.8996	48.3899	7.3482	.1764	3.6410
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4.5	2.1936	1.3247	1.12	.5511	1.8145	1.6100	.4193	2.0025	2.0693	14.5992	47.8173	6.0455	.1821	3.4124
4.5	2.1936	1.3247	1.12	.5511	1.8145	1.6400	.3894	2.0633	2.1207	13.3565	48.0197	5.6113	.1831	3.3350
4.5	2.1936	1.3247	1.12	.5511	1.8145	1.6700	.3555	2.1261	2.1738	12.0164	48.5687	5.1770	.1836	3.2568
4.5	2.1936	1.3247	1.12	.5511	1.8145	1.7000	.3166	2.1911	2.2288	10.5512	49.6530	4.7428	.1833	3.1776
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4.5	2.1936	1.3247	1.12	.5511	1.8145	1.7600	.2164	2.3289	2.3465	7.0106	55.3164	3.8743	.1800	3.0149
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4.5	2.1936	1.3247	1.16	.5905	1.6936	.6000	.0991	.5654	.5731	9.3803	86.0535	20.3549	.0879	6.3764
4.5	2.1936	1.3247	1.16	.5905	1.6936	.6300	.1990	.5972	.6263	17.5284	81.9488	19.9052	.0896	6.3009
4.5	2.1936	1.3247	1.16	.5905	1.6936	.6600	.2600	.6295	.6765	21.4994	79.3064	19.4554	.0913	6.2254
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4.5	2.1936	1.3247	1.16	.5905	1.6936	.7200	.3439	.6952	.7704	25.5286	75.3639	18.5559	.0949	6.0743
4.5	2.1936	1.3247	1.16	.5905	1.6936	.7500	.3754	.7287	.8149	26.5883	73.7361	18.1062	.0968	5.9986
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4.5	2.1936	1.3247	1.16	.5905	1.6936	.8400	.4453	.8320	.9417	27.9294	69.5892	16.7569	.1025	5.7716
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4.5	2.1936	1.3247	1.16	.5905	1.6936	.9000	.4772	.9034	1.0226	27.9347	67.2259	15.8574	.1065	5.6200
4.5	2.1936	1.3247	1.16	.5905	1.6936	.9300	.4897	.9399	1.0622	27.7704	66.1305	15.4076	.1085	5.5441
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4.5	2.1936	1.3247	1.16	.5905	1.6936	1.0200	.5153	1.0527	1.1795	26.8047	63.1206	14.0584	.1147	5.3162
4.5	2.1936	1.3247	1.16	.5905	1.6936	1.0500	.5203	1.0915	1.2182	26.3583	62.1982	13.6086	.1168	5.2401
4.5	2.1936	1.3247	1.16	.5905	1.6936	1.0800	.5235	1.1310	1.2568	25.8606	61.3129	13.1589	.1189	5.1639
4.5	2.1936	1.3247	1.16	.5905	1.6936	1.1100	.5251	1.1711	1.2955	25.3159	60.4641	12.7091	.1209	5.0876
4.5	2.1936	1.3247	1.16	.5905	1.6936	1.1400	.5250	1.2118	1.3342	24.7276	59.6518	12.2594	.1230	5.0113
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4.5	2.1936	1.3247	1.16	.5905	1.6936	1.2000	.5200	1.2956	1.4120	23.4281	58.1405	11.3598	.1270	4.8582
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4.5	2.1936	1.3247	1.16	.5905	1.6936	1.2600	.5083	1.3824	1.4906	21.9713	56.7961	10.4603	.1309	4.7046
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4.5	2.1936	1.3247	1.16	.5905	1.6936	1.4400	.4286	1.6644	1.7366	16.5753	54.3108	7.7618	.1399	4.2388
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4.5	2.1936	1.3247	1.16	.5905	1.6936	1.5000	.3832	1.7670	1.8237	14.3297	54.4757	6.8623	.1413	4.0808
4.5	2.1936	1.3247	1.16	.5905	1.6936	1.5300	.3555	1.8202	1.8687	13.0824	54.9434	6.4126	.1415	4.0009
4.5	2.1936	1.3247	1.16	.5905	1.6936	1.5600	.3238	1.8749	1.9148	11.7255	55.8151	5.9628	.1413	3.9204
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4.5	2.1936	1.3247	1.16	.5905	1.6936	1.6200	.2426	1.9890	2.0112	8.5153	59.7975	5.0633	.1393	3.7564
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4.5	2.1936	1.3247	1.20	.6363	1.5716	.6400	.0570	.6054	.6078	5.0872	87.6055	19.4244	.0861	6.7716
4.5	2.1936	1.3247	1.20	.6363	1.5716	.6700	.1689	.6375	.6575	14.1506	82.7750	18.9591	.0876	6.6933
4.5	2.1936	1.3247	1.20	.6363	1.5716	.7000	.2282	.6700	.7047	18.0525	80.0644	18.4939	.0890	6.6150
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4.5	2.1936	1.3247	1.20	.6363	1.5716	.9100	.4091	.9096	.9973	24.2071	69.4703	15.2370	.0993	6.0655
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4.5	2.1936	1.3247	1.20	.6363	1.5716	1.0600	.4443	1.0958	1.1881	22.7424	64.7585	12.9107	.1065	5.6709
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.0900	.4453	1.1347	1.2258	22.2215	63.9871	12.4455	.1079	5.5917
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.1200	.4444	1.1743	1.2634	21.6409	63.2728	11.9802	.1092	5.5125
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.1500	.4415	1.2146	1.3010	21.0037	62.6187	11.5149	.1104	5.4332
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.1800	.4368	1.2555	1.3387	20.3117	62.0298	11.0497	.1116	5.3538
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.2100	.4300	1.2971	1.3766	19.5657	61.5130	10.5844	.1126	5.2744
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.2400	.4213	1.3395	1.4147	18.7650	61.0783	10.1191	.1136	5.1949
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.2700	.4104	1.3826	1.4530	17.9078	60.7391	9.6539	.1144	5.1155
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.3000	.3972	1.4266	1.4917	16.9906	60.5138	9.1886	.1152	5.0360
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4.5	2.1936	1.3247	1.20	.6363	1.5716	1.4800	.2521	1.7099	1.7345	9.6662	64.2438	[illegible]	[illegible]	[illegible]

4.5	2.1936	1.3247	1.20	.6363	1.5716	1.0600	.4443	1 0958	1.1881	22.7424	64.7585	12.9107	.1065	5.67[illegible]
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.0900	.4453	1.1347	1.2258	22.2215	63.9871	12.4455	.1079	5.5917
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.1200	.4444	1.1743	1.2634	21.6409	63.2728	11.9802	.1092	5.5123
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.1500	.4415	1.2146	1.3010	21.0037	62.6187	11.5149	.1104	5.4329
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.1800	.4368	1.2555	1.3387	20.3117	62.0298	11.0497	.1116	5.3552
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4.5	2.1936	1.3247	1.20	.6363	1.5716	1.3300	.3816	1.4713	1.5307	16.0083	60.4203	8.7234	.1157	4.9516
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4.5	2.1936	1.3247	1.20	.6363	1.5716	1.3900	.3418	1.5637	1.6102	13.8139	60.8375	7.7928	.1162	4.7887
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.4200	.3167	1.6113	1.6509	12.5736	61.4648	7.3276	.1161	4.7065
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.4500	.2873	1.6600	1.69[illegible]3	11.2060	62.5272	6.8623	.1157	4.6238
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.4800	.2521	1. 7099	1.7345	9.6662	64.2438	6.3970	.1149	4.5402
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.5100	.2086	1.7610	1.7777	7.8662	67.0416	5.9318	.1138	4.4558
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.5400	.1505	1.8135	1.8221	5.5805	71.9772	5.4665	.1123	4.3702
4.5	2.1936	1.3247	1.20	.6363	1.5716	1.5700	.0340	1.8675	1.8679	1.2402	85.5063	5.0013	.1102	4.2831
4.5	2.1936	1.3247	1.24	.6924	1.4443	.7000	.0729	.6671	.6707	5.9420	86.7165	18.1320	.0847	7.1239
4.5	2.1936	1.3247	1.24	.6924	1.4443	.7300	.1585	.6997	.7160	12.2473	82.7170	17.6512	.0858	7.0427
4.5	2.1936	1.3247	1.24	.6924	1.4443	.7600	.2077	.7327	.7596	15.2879	80.2574	17.1705	.0869	6.9615
4.5	2.1936	1.3247	1.24	.6924	1.4443	.7900	.2438	.7661	.8018	17.1521	78.3245	16.6897	.0881	6.8803
4.5	2.1936	1.3247	1.24	.6924	1.4443	.8200	.2720	.8000	.8428	18.3522	76.6910	16.2089	.0892	6.7989
4.5	2.1936	1.3247	1.24	.6924	1.4443	.8500	.2946	.8342	.8829	19.1163	75.2614	15.7281	.0902	6.7175
4.5	2.1936	1.3247	1.24	.6924	1.4443	.8800	.3128	.8690	.9222	19.5692	73.9857	15.2474	.0913	6.6361
4.5	2.1936	1.3247	1.24	.6924	1.4443	.9100	.3274	.9042	.9609	19.7874	72.8347	14.7666	.0923	6.5545
4.5	2.1936	1.3247	1.24	.6924	1.4443	.9400	.3388	.9398	.9990	19.8209	71.7905	14.2858	.0933	6.4728
4.5	2.1936	1.3247	1.24	.6924	1.4443	.9700	.3474	.9760	1.0367	19.7039	70.8420	13.8051	.0943	6.3910
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.0000	.3533	1 0127	1.0741	19.4605	69.9831	13.3243	.0952	6.3092
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.0300	.3568	1 0500	1.1112	19.1080	69.2111	12.8435	.0961	6.2271
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.0600	.3579	1 0877	1.1481	18.6585	68.5267	12.3627	.0969	6.1450
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.0900	.3567	1.1261	1.1848	18.1203	67.9336	11.8820	.0976	6.0626
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.1200	.3531	1 1650	1.2216	17.4988	67.4388	11.4012	.0983	5.9801
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.1500	.3471	1 2046	1.2583	16.7966	67.0533	10.9204	.0988	5.8974
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.1800	.3387	1.2448	1.2951	16.0138	66.7932	10.4397	.0993	5.8145
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.2100	.3276	1.2857	1.3320	15.1477	66.6812	9.9589	.0996	5.7313
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.2400	.3136	1.3273	1.3691	14.1923	66.7503	9.4781	.0998	5.6477
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.2700	.2964	1.3696	1.4064	13.1370	67.0479	8.9973	.0998	5.5639
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.3000	.2755	1.4127	1.4441	11.9647	67.6462	8.5166	.0997	5.4796
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.3300	.2500	1.4566	1.4821	10.6463	68.6593	8.0358	.0993	5.3948
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.3600	.2186	1 5014	1.5207	9.1299	70.2847	7.5550	.0987	5.3094
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.3900	.1782	1 5471	1.5598	7.3073	72.9146	7.0743	.0979	5.2233
4.5	2.1936	1.3247	1.24	.6924	1.4443	1.4200	.1209	1 5938	1.5996	4.8674	77.5983	6.5935	.0968	5.1364
4.5	2.1936	1.3247	1.28	.7683	1.3016	.7700	.0293	7405	.7410	2.1794	88.5640	16.6121	.0827	7.4551
4.5	2.1936	1.3247	1.28	.7683	1.3016	.8000	.1216	.7737	.7826	8.6407	83.9071	16.1159	.0834	7.3710
4.5	2.1936	1.3247	1.28	.7683	1.3016	.8300	.1642	8074	.8230	11.1911	81.5766	15.6196	.0842	7.2868
4.5	2.1936	1.3247	1.28	.7683	1.3016	.8600	.1934	8414	.8625	12.6771	79.8347	15.1233	.0849	7.2024
4.5	2.1936	1.3247	1.28	.7683	1.3016	.8900	.2148	8759	.9011	13.5716	78.4241	14.6270	.0856	7.1180
4.5	2.1936	1.3247	1.28	.7683	1.3016	.9200	.2306	9109	.9391	14.0722	77.2467	14.1307	.0862	7.0334
4.5	2.1936	1.3247	1.28	.7683	1.3016	.9500	.2419	.9463	.9765	14.2842	76.2558	13.6345	.0868	6.9487
4.5	2.1936	1.3247	1.28	.7683	1.3016	.9800	.2493	9822	1.0135	14.2704	75.4287	13.1382	.0873	6.8639
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.0100	.2531	1 0186	1.0501	14.0702	74.7563	12.6419	.0877	6.7789
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.0400	.2537	1 0555	1.0865	13.7086	74.2395	12.1456	.0881	6.6937
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.0700	.2510	1.0930	1.1226	13.2008	73.8884	11.6493	.0884	6.6083
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.1000	.2449	1 1310	1.1587	12.5534	73.7231	11.1531	.0886	6.5226
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.1300	.2354	1.1695	1.1946	11.7655	73.7767	10.6568	.0887	6.4367
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.1600	.2218	1.2087	1.2306	10.8269	74.1018	10.1605	.0886	6.3505
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.1900	.2037	1.2485	1.2667	9.7135	74.7835	9.6642	.0884	6.2639
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.2200	.1796	1.2890	1.3029	8.3761	75.9703	9.1679	.0881	6.1769
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.2500	.1469	1 3301	1.3393	6.7044	77.9593	8.6717	.0876	6.0895
4.5	2.1936	1.3247	1.28	.7683	1.3016	1.2800	.0976	1 3720	1.3760	4.3598	81.5752	8.1754	.0869	6.0015
4.5	2.1936	1.3247	1.32	.9188	1.0884	.9200	.0136	9062	.9063	.8458	89.2135	13.6551	.0803	7.5576
4.5	2.1936	1.3247	1.32	.9188	1.0884	.9500	.0628	9412	.9433	3.7794	86.2571	13.1434	.0806	7.4678
4.5	2.1936	1.3247	1.32	.9188	1.0884	.9800	.0776	9767	.9798	4.5296	85.2244	12.6316	.0807	7.3818
4.5	2.1936	1.3247	1.32	.9188	1.0884	1.0100	.0804	1 0127	1.0159	4.5529	84.8894	12.1198	.0808	7.2936
4.5	2.1936	1.3247	1.32	.9188	1.0884	1.0400	.0727	1 0492	1.0517	3.9973	85.2210	11.6080	.0807	7.2052
4.5	2.1936	1.3247	1.32	.9188	1.0884	1.0700	.0499	1. 0861	1.0873	2.6701	86.5975	11.0962	.0806	7.1164

LOOP BRANCH (M1 FROM 1 TO 5)

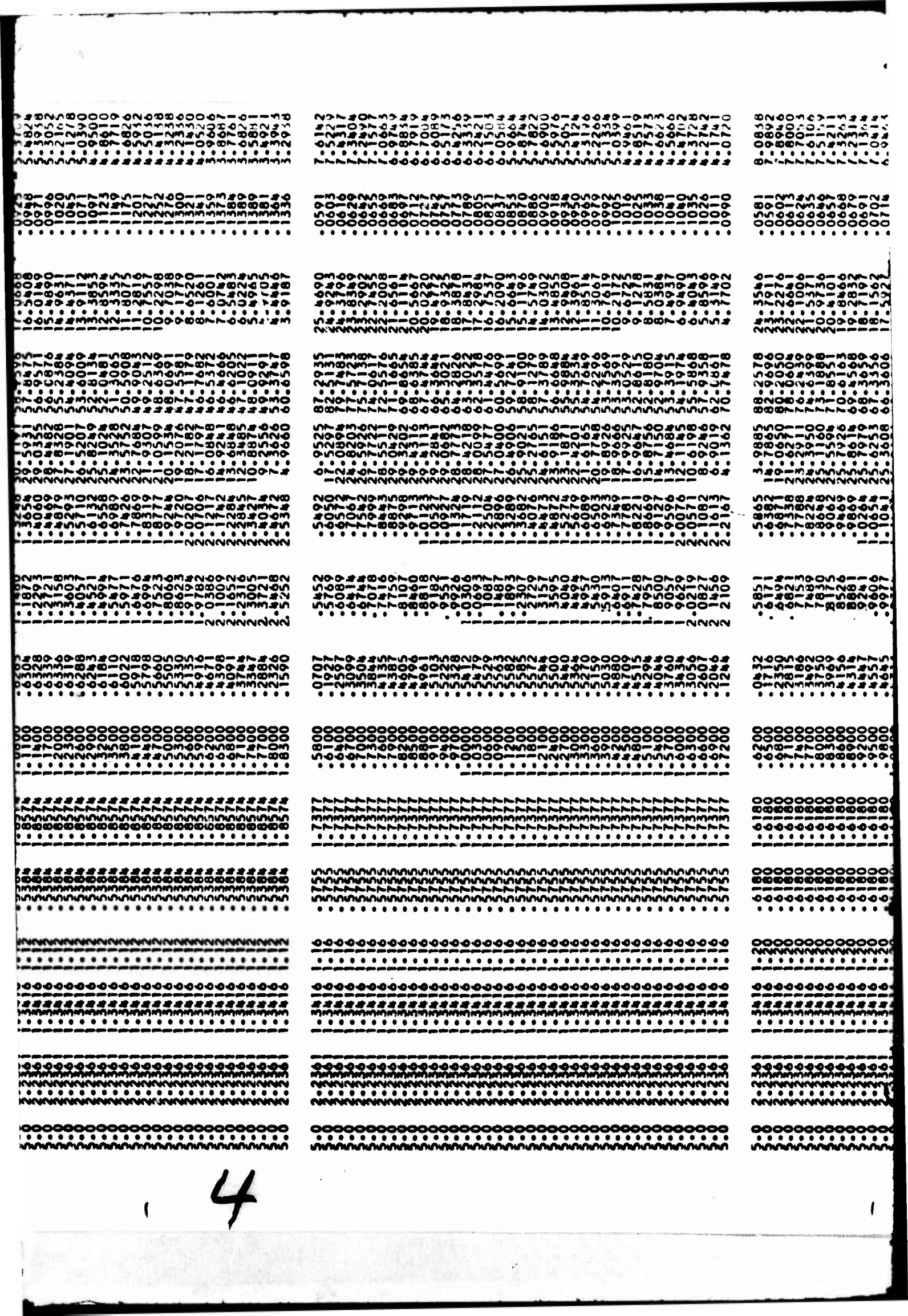
GAMMA = 1.4

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ve)	Y(M2Ve)	2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.0	2.2361	1.3416	1.00	.4472	2.2361	.4500	.0691	.4181	.4230	8.7322	87.7839	28.9564	.0619	5.7927
1.0	2.2361	1.3416	1.00	.4472	2.2361	.4800	.2350	.4490	.4999	26.0868	82.3775	28.4868	.0639	5.7144
1.0	2.2361	1.3416	1.00	.4472	2.2361	.5100	.3223	.4804	.5683	32.2926	79.4228	28.0172	.0659	5.6360
1.0	2.2361	1.3416	1.00	.4472	2.2361	.5400	.3883	.5122	.6308	35.7163	77.1061	27.5477	.0681	5.5577
1.0	2.2361	1.3416	1.00	.4472	2.2361	.5700	.4425	.5445	.6893	37.8231	75.1258	27.0781	.0703	5.4793
1.0	2.2361	1.3416	1.00	.4472	2.2361	.6000	.4890	.5773	.7447	39.1775	73.3607	26.6085	.0727	5.4009
1.0	2.2361	1.3416	1.00	.4472	2.2361	.6300	.5297	.6106	.7977	40.0552	71.7479	26.1389	.0751	5.3226
1.0	2.2361	1.3416	1.00	.4472	2.2361	.6600	.5659	.6445	.8489	40.6097	70.2495	25.6694	.0777	5.2442
1.0	2.2361	1.3416	1.00	.4472	2.2361	.6900	.5984	.6788	.8986	40.9341	68.8408	25.1998	.0804	5.1658
1.0	2.2361	1.3416	1.00	.4472	2.2361	.7200	.6278	.7138	.9470	41.0884	67.5044	24.7302	.0833	5.0874
1.0	2.2361	1.3416	1.00	.4472	2.2361	.7500	.6546	.7493	.9946	41.1135	66.2277	24.2606	.0863	5.0090
1.0	2.2361	1.3416	1.00	.4472	2.2361	.7800	.6789	.7855	1.0413	41.0376	65.0011	23.7911	.0894	4.9306
1.0	2.2361	1.3416	1.00	.4472	2.2361	.8100	.7012	.8224	1.0875	40.8815	63.8171	23.3215	.0927	4.8522
1.0	2.2361	1.3416	1.00	.4472	2.2361	.8400	.7215	.8597	1.1332	40.6603	62.6697	22.8519	.0961	4.7738
1.0	2.2361	1.3416	1.00	.4472	2.2361	.8700	.7400	.8978	1.1786	40.3855	61.5540	22.3823	.0998	4.6954
1.0	2.2361	1.3416	1.00	.4472	2.2361	.9000	.7570	.9366	1.2238	40.0661	60.4660	21.9128	.1036	4.6170
1.0	2.2361	1.3416	1.00	.4472	2.2361	.9300	.7723	.9761	1.2689	39.7088	59.4022	21.4432	.1077	4.5386
1.0	2.2361	1.3416	1.00	.4472	2.2361	.9600	.7863	1.0164	1.3139	39.3190	58.3597	20.9736	.1119	4.4602
1.0	2.2361	1.3416	1.00	.4472	2.2361	.9900	.7989	1.0575	1.3589	38.9010	57.3359	20.5040	.1164	4.3817
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.0200	.8101	1.0995	1.4041	38.4584	56.3288	20.0345	.1212	4.3033
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.0500	.8202	1.1423	1.4494	37.9938	55.3361	19.5649	.1262	4.2248
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.0800	.8290	1.1860	1.4951	37.5095	54.3564	19.0953	.1316	4.1464
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.1100	.8367	1.2306	1.5410	37.0073	53.3878	18.6258	.1372	4.0679
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.1400	.8432	1.2762	1.5874	36.4886	52.4290	18.1562	.1432	3.9894
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.1700	.8486	1.3229	1.6343	35.9546	51.4787	17.6866	.1495	3.9109
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.2000	.8530	1.3707	1.6817	35.4062	50.5355	17.2170	.1562	3.8324
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.2300	.8563	1.4195	1.7297	34.8442	49.5984	16.7475	.1634	3.7539
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.2600	.8585	1.4696	1.7783	34.2691	48.6662	16.2779	.1710	3.6753
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.2900	.8597	1.5210	1.8278	33.6812	47.7380	15.8083	.1791	3.5968
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.3200	.8599	1.5736	1.8780	33.0808	46.8126	15.3387	.1878	3.5182
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.3500	.8590	1.6277	1.9292	32.4681	45.8890	14.8692	.1970	3.4396
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.3800	.8571	1.6832	1.9814	31.8430	44.9665	14.3996	.2069	3.3610
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.4100	.8541	1.7402	2.0346	31.2055	44.0438	13.9300	.2174	3.2824
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.4400	.8501	1.7989	2.0890	30.5552	43.1202	13.4604	.2287	3.2037
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.4700	.8450	1.8594	2.1447	29.8920	42.1946	12.9909	.2408	3.1251
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.5000	.8388	1.9217	2.2018	29.2154	41.2661	12.5213	.2538	3.0463
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.5300	.8316	1.9860	2.2604	28.5247	40.3336	12.0517	.2677	2.9676
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.5600	.8232	2.0524	2.3206	27.8195	39.3961	11.5821	.2827	2.8888
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.5900	.8136	2.1210	2.3825	27.0988	38.4525	11.1126	.2988	2.8100
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.6200	.8028	2.1920	2.4464	26.3618	37.5016	10.6430	.3162	2.7311
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.6500	.7908	2.2655	2.5123	25.6074	36.5421	10.1734	.3349	2.6521
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.6800	.7775	2.3419	2.5805	24.8343	35.5728	9.7038	.3551	2.5731
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.7100	.7628	2.4212	2.6512	24.0409	34.5921	9.2343	.3769	2.4940
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.7400	.7467	2.5037	2.7245	23.2256	33.5985	8.7647	.4005	2.4149
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.7700	.7290	2.5898	2.8008	22.3863	32.5902	8.2951	.4260	2.3356
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.8000	.7098	2.6796	2.8804	21.5206	31.5652	7.8255	.4536	2.2562
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.8300	.6888	2.7736	2.9635	20.6256	30.5212	7.3560	.4835	2.1767
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.8600	.6659	2.8721	3.0506	19.6978	29.4558	6.8864	.5157	2.0970
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.8900	.6410	2.9757	3.1421	18.7333	28.3658	6.4168	.5505	2.0171
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.9200	.6137	3.0848	3.2386	17.7267	27.2480	5.9472	.5881	1.9369
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.9500	.5840	3.2002	3.3406	16.6719	26.0981	5.4777	.6285	1.8565
1.0	2.2361	1.3416	1.00	.4472	2.2361	1.9800	.5514	3.3226	3.4490	15.5609	24.9112	5.0081	.6714	1.7756
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.0100	.5155	3.4530	3.5647	14.3833	23.6812	4.5385	.7170	1.6942
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.0400	.4757	3.5927	3.6890	13.1256	22.4005	4.0689	.7649	1.6121
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.0700	.4313	3.7432	3.8235	11.7693	21.0594	3.5994	.8142	1.5291
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.1000	.3812	3.9067	3.9706	10.2880	19.6447	3.1298	.8636	1.4447
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.1300	.3238	4.0867	4.1336	8.6430	18.1390	2.6602	.9109	1.3583
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.1600	.2565	4.2882	4.3184	6.7729	16.5166	2.1907	.9527	1.2686
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.1900	.1751	4.5210	4.5355	4.5719	14.7384	1.7211	.9839	1.1732
1.0	2.2361	1.3416	1.00	.4472	2.2361	2.2200	.0711	4.8067	4.8092	1.8337	12.7388	1.2515	.9988	1.0665
5.0	2.2361	1.3416	1.00	.4472	2.2361	2.2500	.0000	5.2105	5.2105	.0000	10.5000	.7819	1.0000	1.0000



5.0	2.2361	1.3416	1.08	.5052	1.9793	.5400	.2188	.5075	.5476	22.0588	82.2681	26.8715	.0623	6.6024
5.0	2.2361	1.3416	1.08	.5052	1.9793	.5700	.2954	.5392	.6073	27.3955	79.4209	26.3643	.0639	6.5177
5.0	2.2361	1.3416	1.08	.5052	1.9793	.6000	.3533	.5713	.6630	30.4941	77.1714	25.8572	.0656	6.4329
5.0	2.2361	1.3416	1.08	.5052	1.9793	.6300	.4008	.6038	.7157	32.4649	75.2432	25.3501	.0674	6.3481
5.0	2.2361	1.3416	1.08	.5052	1.9793	.6600	.4412	.6369	.7661	33.7622	73.5229	24.8429	.0692	6.2633
5.0	2.2361	1.3416	1.08	.5052	1.9793	.6900	.4763	.6704	.8146	34.6178	71.9506	24.3358	.0711	6.1784
5.0	2.2361	1.3416	1.08	.5052	1.9793	.7200	.5073	.7044	.8616	35.1654	70.4902	23.8286	.0731	6.0936
5.0	2.2361	1.3416	1.08	.5052	1.9793	.7500	.5347	.7389	.9075	35.4883	69.1180	23.3215	.0752	6.0088
5.0	2.2361	1.3416	1.08	.5052	1.9793	.7800	.5593	.7739	.9523	35.6416	67.8172	22.8144	.0773	5.9239
5.0	2.2361	1.3416	1.08	.5052	1.9793	.8100	.5813	.8095	.9964	35.6634	66.5759	22.3072	.0795	5.8390
5.0	2.2361	1.3416	1.08	.5052	1.9793	.8400	.6009	.8457	1.0398	35.5806	65.3846	21.8001	.0818	5.7542
5.0	2.2361	1.3416	1.08	.5052	1.9793	.8700	.6186	.8824	1.0827	35.4130	64.2364	21.2929	.0841	5.6692
5.0	2.2361	1.3416	1.08	.5052	1.9793	.9000	.6343	.9197	1.1252	35.1756	63.1254	20.7858	.0866	5.5843
5.0	2.2361	1.3416	1.08	.5052	1.9793	.9300	.6483	.9577	1.1674	34.8795	62.0470	20.2787	.0891	5.4994
5.0	2.2361	1.3416	1.08	.5052	1.9793	.9600	.6606	.9963	1.2094	34.5336	60.9974	19.7715	.0917	5.4144
5.0	2.2361	1.3416	1.08	.5052	1.9793	.9900	.6714	1.0356	1.2513	34.1445	59.9734	19.2644	.0945	5.3294
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.0200	.6807	1.0756	1.2932	33.7177	58.9724	18.7572	.0973	5.2444
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.0500	.6886	1.1163	1.3350	33.2574	57.9921	18.2501	.1003	5.1594
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.0800	.6951	1.1578	1.3769	32.7671	57.0304	17.7430	.1033	5.0743
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.1100	.7003	1.2001	1.4190	32.2493	56.0859	17.2358	.1065	4.9892
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.1400	.7042	1.2432	1.4613	31.7062	55.1570	16.7287	.1098	4.9041
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.1700	.7069	1.2871	1.5038	31.1394	54.2425	16.2215	.1132	4.8189
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.2000	.7083	1.3320	1.5467	30.5503	53.3415	15.7144	.1167	4.7337
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.2300	.7084	1.3777	1.5899	29.9396	52.4531	15.2073	.1204	4.6484
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.2600	.7073	1.4245	1.6336	29.3081	51.5766	14.7001	.1241	4.5631
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.2900	.7050	1.4722	1.6777	28.6561	50.7115	14.1930	.1280	4.4777
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.3200	.7014	1.5210	1.7224	27.9837	49.8576	13.6858	.1321	4.3923
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.3500	.6965	1.5710	1.7677	27.2908	49.0146	13.1787	.1362	4.3068
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.3800	.6904	1.6221	1.8137	26.5770	48.1827	12.6716	.1405	4.2212
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.4100	.6829	1.6744	1.8605	25.8419	47.3623	12.1644	.1449	4.1355
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.4400	.6741	1.7280	1.9080	25.0845	46.5538	11.6573	.1495	4.0498
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.4700	.6638	1.7831	1.9564	24.3037	45.7585	11.1501	.1541	3.9639
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.5000	.6522	1.8395	2.0058	23.4984	44.9776	10.6430	.1588	3.8779
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.5300	.6390	1.8975	2.0563	22.6666	44.2134	10.1358	.1636	3.7918
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.5600	.6242	1.9571	2.1079	21.8065	43.4686	9.6287	.1685	3.7054
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.5900	.6077	2.0184	2.1608	20.9155	42.7473	9.1216	.1734	3.6189
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.6200	.5893	2.0816	2.2151	19.9905	42.0549	8.6144	.1783	3.5322
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.6500	.5690	2.1468	2.2709	19.0279	41.3990	8.1073	.1831	3.4452
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.6800	.5466	2.2140	2.3283	18.0229	40.7903	7.6001	.1877	3.3579
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.7100	.5218	2.2836	2.3876	16.9699	40.2441	7.0930	.1922	3.2701
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.7400	.4944	2.3557	2.4489	15.8614	39.7830	6.5859	.1964	3.1819
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.7700	.4640	2.4304	2.5125	14.6880	39.4414	6.0787	.2002	3.0931
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.8000	.4300	2.5082	2.5788	13.4369	39.2736	5.5716	.2033	3.0036
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.8300	.3920	2.5893	2.6481	12.0905	39.3708	5.0644	.2057	2.9130
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.8600	.3488	2.6743	2.7209	10.6226	39.8976	4.5573	.2071	2.8212
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.8900	.2991	2.7636	2.7980	8.9914	41.1841	4.0502	.2071	2.7276
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.9200	.2398	2.8583	2.8805	7.1189	44.0117	3.5430	.2054	2.6315
5.0	2.2361	1.3416	1.08	.5052	1.9793	1.9500	.1640	2.9596	2.9700	4.8077	50.8782	3.0359	.2015	2.5318

5.0	2.2361	1.3416	1.12	.5384	1.8574	.5400	.0451	.5055	.5072	4.7721	88.3584	26.5334	.0598	7.1581
5.0	2.2361	1.3416	1.12	.5384	1.8574	.5700	.1972	.5369	.5681	19.0831	82.7167	26.0075	.0612	7.0701
5.0	2.2361	1.3416	1.12	.5384	1.8574	.6000	.2719	.5687	.6244	24.3812	79.8102	25.4815	.0626	6.9821
5.0	2.2361	1.3416	1.12	.5384	1.8574	.6300	.3275	.6009	.6772	27.4638	77.5478	24.9556	.0641	6.8940
5.0	2.2361	1.3416	1.12	.5384	1.8574	.6600	.3724	.6336	.7275	29.4363	75.6221	24.4297	.0657	6.8060
5.0	2.2361	1.3416	1.12	.5384	1.8574	.6900	.4104	.6667	.7757	30.7424	73.9116	23.9038	.0672	6.7179
5.0	2.2361	1.3416	1.12	.5384	1.8574	.7200	.4431	.7003	.8223	31.6084	72.3536	23.3778	.0689	6.6298
5.0	2.2361	1.3416	1.12	.5384	1.8574	.7500	.4717	.7344	.8675	32.1650	70.9106	22.8519	.0706	6.5417
5.0	2.2361	1.3416	1.12	.5384	1.8574	.7800	.4968	.7689	.9117	32.4941	69.5583	22.3260	.0723	6.4536
5.0	2.2361	1.3416	1.12	.5384	1.8574	.8100	.5190	.8040	.9549	32.6502	68.2797	21.8001	.0741	6.3655
5.0	2.2361	1.3416	1.12	.5384	1.8574	.8400	.5387	.8396	.9975	32.6709	67.0626	21.2742	.0759	6.2773
5.0	2.2361	1.3416	1.12	.5384	1.8574	.8700	.5560	.8758	1.0394	32.5833	65.8977	20.7482	.0778	6.1891
5.0	2.2361	1.3416	1.12	.5384	1.8574	.9000	.5713	.9125	1.0809	32.4071	64.7779	20.2223	.0797	6.1009
5.0	2.2361	1.3416	1.12	.5384	1.8574	.9300	.5847	.9498	1.1220	32.1571	63.6976	19.6964	.0817	6.0127
5.0	2.2361	1.3416	1.12	.5384	1.8574	.9600	.5963	.9878	1.1628	31.8447	62.6524	19.1705	.0837	5.9244
5.0	2.2361	1.3416	1.12	.5384	1.8574	.9900	.6062	1.0263	1.2034	31.4786	61.6387	18.6445	.0858	5.8361
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.0200	.6145	1.0655	1.2439	31.0656	60.6534	18.1186	.0880	5.7477
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.0500	.6212	1.1054	1.2844	30.6110	59.6944	17.5927	.0902	5.6593
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.0800	.6265	1.1460	1.3248	30.1191	58.7596	17.0668	.0925	5.5709
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.1100	.6304	1.1872	1.3654	29.5931	57.8475	16.5408	.0948	5.4824
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.1400	.6328	1.2293	1.4060	29.0355	56.9571	16.0149	.0971	5.3938
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.1700	.6339	1.2721	1.4469	28.4482	56.0876	15.4890	.0996	5.3052
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.2000	.6336	1.3158	1.4879	27.8328	55.2384	14.9631	.1020	5.2165
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.2300	.6319	1.3603	1.5293	27.1901	54.4094	14.4371	.1045	5.1278
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.2600	.6288	1.4057	1.5710	26.5207	53.6009	13.9112	.1071	5.0390
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.2900	.6243	1.4521	1.6132	25.8249	52.8134	13.3853	.1097	4.9500
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.3200	.6184	1.4994	1.6558	25.1024	52.0481	12.8594	.1123	4.8610
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.3500	.6110	1.5477	1.6989	24.3528	51.3065	12.3335	.1149	4.7719
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.3800	.6022	1.5971	1.7426	23.5752	50.5908	11.8075	.1175	4.6826
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.4100	.5918	1.6476	1.7869	22.7684	49.9043	11.2816	.1201	4.5932
5.0	2.2361	1.3416	1.12	.5384	1.8574	1.4400	.5798	1.6994	1.8319	21.9307	49.2512	10.7557	.1227	4.5036



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5.0	2.2361	1.3416	1.24	.6689	1.4951	1.0000	.3905	1.0156	1.0903	21.3326	68.6224	16.5909	.0662	7.4555
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.0300	.3948	1.0531	1.1278	20.9703	68.0197	16.0087	.0669	7.3547
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.0600	.3968	1.0911	1.1650	20.5223	67.2892	15.4264	.0676	7.2559
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.0900	.3967	1.1297	1.2022	19.9965	66.4328	14.8441	.0682	7.1569
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.1200	.3944	1.1689	1.2393	19.3980	66.0547	14.2618	.0688	7.0577
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.1500	.3899	1.2088	1.2764	18.7298	65.5617	13.6796	.0694	6.9584
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.1800	.3832	1.2493	1.3135	17.9932	65.1637	13.0973	.0699	6.8588
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.2100	.3743	1.2905	1.3508	17.1872	64.8748	12.5150	.0703	6.7590
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.2400	.3628	1.3324	1.3882	16.3091	64.7147	11.9328	.0706	6.6590
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.2700	.3487	1.3750	1.4259	15.3533	64.7108	11.3505	.0708	6.5586
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.3000	.3316	1.4184	1.4638	14.3112	64.9026	10.7682	.0709	6.4579
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.3300	.3112	1.4626	1.5021	13.1689	65.3475	10.1859	.0709	6.3568
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.3600	.2867	1.5077	1.5409	11.9048	66.1339	9.6037	.0707	6.2553
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.3900	.2572	1.5537	1.5801	10.4831	67.4056	9.0214	.0704	6.1531
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.4200	.2208	1.6007	1.6199	8.8377	69.4213	8.4391	.0698	6.0502
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.4500	.1735	1.6487	1.6605	6.8218	72.7329	7.8568	.0691	5.9465
5.0	2.2361	1.3416	1.24	.6689	1.4951	1.4800	.1015	1.6978	1.7018	3.9246	79.1158	7.2746	.0681	5.8418
5.0	2.2361	1.3416	1.28	.7341	1.3622	.7400	.0589	.7089	.7111	4.5523	87.2718	21.1740	.0561	8.9275
5.0	2.2361	1.3416	1.28	.7341	1.3622	.7700	.1417	.7418	.7543	10.4239	83.3033	20.5729	.0567	8.8261
5.0	2.2361	1.3416	1.28	.7341	1.3622	.8000	.1868	.7752	.7961	13.1450	80.9763	19.9719	.0573	8.7246
5.0	2.2361	1.3416	1.28	.7341	1.3622	.8300	.2191	.8090	.8367	14.7856	79.1817	19.3708	.0579	8.6231
5.0	2.2361	1.3416	1.28	.7341	1.3622	.8600	.2436	.8432	.8764	15.8142	77.6919	18.7698	.0585	8.5214
5.0	2.2361	1.3416	1.28	.7341	1.3622	.8900	.2626	.8779	.9153	16.4363	76.4139	18.1687	.0591	8.4197
5.0	2.2361	1.3416	1.28	.7341	1.3622	.9200	.2771	.9130	.9535	16.7637	75.3010	17.5676	.0596	8.3178
5.0	2.2361	1.3416	1.28	.7341	1.3622	.9500	.2880	.9486	.9912	16.8645	74.3272	16.9666	.0601	8.2159
5.0	2.2361	1.3416	1.28	.7341	1.3622	.9800	.2956	.9847	1.0285	16.7828	73.4787	16.3655	.0606	8.1138
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.0100	.3001	1.0213	1.0654	16.5482	72.7490	15.7645	.0610	8.0115
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.0400	.3018	1.0584	1.1021	16.1808	72.1381	15.1634	.0614	7.9091
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.0700	.3006	1.0961	1.1385	15.6936	71.6509	14.5624	.0617	7.8065
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.1000	.2967	1.1343	1.1749	15.0943	71.2981	13.9613	.0619	7.7037
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.1300	.2898	1.1731	1.2111	14.3858	71.0975	13.3603	.0621	7.6007
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.1600	.2799	1.2125	1.2473	13.5663	71.0757	12.7592	.0622	7.4974
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.1900	.2666	1.2526	1.2836	12.6282	71.2725	12.1581	.0623	7.3938
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.2200	.2495	1.2933	1.3200	11.5559	71.7486	11.5571	.0622	7.2899
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.2500	.2276	1.3347	1.3566	10.3211	72.6006	10.9560	.0620	7.1855
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.2800	.1998	1.3768	1.3935	8.8703	73.9950	10.3550	.0617	7.0807
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.3100	.1629	1.4197	1.4306	7.0882	76.2645	9.7539	.0613	6.9753
5.0	2.2361	1.3416	1.28	.7341	1.3622	1.3400	.1085	1.4633	1.4681	4.6298	80.3238	9.1529	.0607	6.8692
5.0	2.2361	1.3416	1.32	.8346	1.1982	.8400	.0427	.8165	.8175	2.9093	87.7902	18.6445	.0547	9.2218
5.0	2.2361	1.3416	1.32	.8346	1.1982	.8700	.1043	.8505	.8566	6.8370	84.4641	18.0247	.0550	9.1166
5.0	2.2361	1.3416	1.32	.8346	1.1982	.9000	.1350	.8849	.8948	8.5284	82.6497	17.4049	.0553	9.0113
5.0	2.2361	1.3416	1.32	.8346	1.1982	.9300	.1544	.9198	.9324	9.4250	81.3623	16.7850	.0556	8.9059
5.0	2.2361	1.3416	1.32	.8346	1.1982	.9600	.1666	.9552	.9694	9.8430	80.4141	16.1652	.0558	8.8003
5.0	2.2361	1.3416	1.32	.8346	1.1982	.9900	.1731	.9910	1.0060	9.9170	79.7403	15.5453	.0560	8.6945
5.0	2.2361	1.3416	1.32	.8346	1.1982	1.0200	.1746	1.0273	1.0423	9.7144	79.3240	14.9255	.0561	8.5885
5.0	2.2361	1.3416	1.32	.8346	1.1982	1.0500	.1713	1.0641	1.0782	9.2675	79.1776	14.3057	.0562	8.4823
5.0	2.2361	1.3416	1.32	.8346	1.1982	1.0800	.1630	1.1015	1.1139	8.5826	79.3435	13.6858	.0562	8.3758
5.0	2.2361	1.3416	1.32	.8346	1.1982	1.1100	.1488	1.1393	1.1495	7.6373	79.9078	13.0660	.0561	8.2690
5.0	2.2361	1.3416	1.32	.8346	1.1982	1.1400	.1270	1.1778	1.1851	6.3579	81.0467	12.4462	.0559	8.1619
5.0	2.2361	1.3416	1.32	.8346	1.1982	1.1700	.0924	1.2168	1.2206	4.5168	83.2099	11.8263	.0557	8.0545

```
  STOP
TIME,   1 MINUTES AND   59 SECONDS

  STOP
TIME,   1 MINUTES AND   59 SECONDS
TIME LIMIT.
TIME,   0 MINUTES AND    5 SECONDS
```

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
8.0	2.3591	1.3915	1.00	.4239	2.3591	.4300	.1077	.3991	.4114	14.0566	86.6056	74.2681	.0085	13.3481
8.0	2.3591	1.3915	1.00	.4239	2.3591	.4800	.3221	.4509	.5430	33.8607	80.4742	72.3691	.0091	13.0315
8.0	2.3591	1.3915	1.00	.4239	2.3591	.5300	.4369	.5040	.6532	39.4991	76.5663	70.4700	.0096	12.7149
8.0	2.3591	1.3915	1.00	.4239	2.3591	.5800	.5225	.5586	.7518	42.0146	73.6329	68.5710	.0102	12.3984
8.0	2.3591	1.3915	1.00	.4239	2.3591	.6300	.5917	.6146	.8433	43.2060	71.1077	66.6719	.0109	12.0818
8.0	2.3591	1.3915	1.00	.4239	2.3591	.6800	.6498	.6723	.9299	43.7008	68.8424	64.7729	.0116	11.7652
8.0	2.3591	1.3915	1.00	.4239	2.3591	.7300	.6996	.7316	1.0134	43.7817	66.7591	62.8738	.0124	11.4486
8.0	2.3591	1.3915	1.00	.4239	2.3591	.7800	.7427	.7928	1.0947	43.5963	64.8109	60.9748	.0132	11.1320
8.0	2.3591	1.3915	1.00	.4239	2.3591	.8300	.7802	.8559	1.1746	43.2291	62.9669	59.0757	.0142	10.8154
8.0	2.3591	1.3915	1.00	.4239	2.3591	.8800	.8129	.9210	1.2539	42.7319	61.2053	57.1767	.0152	10.4988
8.0	2.3591	1.3915	1.00	.4239	2.3591	.9300	.8415	.9883	1.3329	42.1384	59.5100	55.2776	.0164	10.1822
8.0	2.3591	1.3915	1.00	.4239	2.3591	.9800	.8661	1.0581	1.4121	41.4708	57.8687	53.3786	.0177	9.8656
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.0300	.8873	1.1303	1.4919	40.7445	56.2716	51.4795	.0191	9.5490
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.0800	.9053	1.2054	1.5728	39.9704	54.7107	49.5805	.0207	9.2324
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.1300	.9202	1.2834	1.6550	39.1559	53.1792	47.6814	.0225	8.9157
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.1800	.9321	1.3646	1.7390	38.3066	51.6714	45.7824	.0246	8.5991
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.2300	.9413	1.4494	1.8251	37.4263	50.1823	43.8833	.0268	8.2824
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.2800	.9477	1.5380	1.9137	36.5173	48.7072	41.9843	.0294	7.9658
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.3300	.9515	1.6308	2.0052	35.5815	47.2419	40.0852	.0324	7.6491
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.3800	.9527	1.7282	2.1001	34.6195	45.7824	38.1862	.0358	7.3324
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.4300	.9512	1.8308	2.1989	33.6315	44.3250	36.2871	.0397	7.0156
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.4800	.9471	1.9391	2.3022	32.6172	42.8659	34.3880	.0442	6.6989
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.5300	.9404	2.0538	2.4107	31.5755	41.4011	32.4890	.0495	6.3821
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.5800	.9309	2.1756	2.5251	30.5049	39.9269	30.5899	.0557	6.0653
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.6300	.9186	2.3055	2.6464	29.4032	38.4389	28.6909	.0630	5.7484
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.6800	.9034	2.4445	2.7755	28.2677	36.9326	26.7918	.0717	5.4315
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.7300	.8851	2.5941	2.9139	27.0948	35.4031	24.8928	.0823	5.1146
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.7800	.8636	2.7559	3.0631	25.8800	33.8446	22.9937	.0951	4.7975
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.8300	.8385	2.9319	3.2250	24.6175	32.2504	21.0947	.1108	4.4804
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.8800	.8097	3.1246	3.4021	23.3001	30.6126	19.1956	.1304	4.1631
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.9300	.7766	3.3375	3.5975	21.9182	28.9217	17.2966	.1551	3.8457
8.0	2.3591	1.3915	1.00	.4239	2.3591	1.9800	.7387	3.5748	3.8154	20.4593	27.1655	15.3975	.1867	3.5281
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.0300	.6953	3.8422	4.0614	18.9062	25.3282	13.4985	.2278	3.2101
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.0800	.6452	4.1480	4.3430	17.2347	23.3886	11.5994	.2821	2.8917
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.1300	.5870	4.5035	4.6714	15.4084	21.3166	9.7004	.3552	2.5725
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.1800	.5181	4.9262	5.0634	13.3688	19.0669	7.8013	.4551	2.2521
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.2300	.4339	5.4445	5.5467	11.0117	16.5647	5.9023	.5918	1.9272
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.2800	.3251	6.1115	6.1733	8.1154	13.6694	4.0032	.7717	1.6006
8.0	2.3591	1.3915	1.00	.4239	2.3591	2.3300	.1641	7.0628	7.0803	4.0298	10.0433	2.1042	.9594	1.2516
8.0	2.3591	1.3915	1.04	.4491	2.2269	.4500	.0405	.4180	.4197	5.1450	88.7543	72.8249	.0084	14.4182
8.0	2.3591	1.3915	1.04	.4491	2.2269	.5000	.2941	.4698	.5451	30.4677	80.7859	70.8499	.0089	14.0889
8.0	2.3591	1.3915	1.04	.4491	2.2269	.5500	.4079	.5229	.6511	36.5635	76.9740	68.8748	.0094	13.7596
8.0	2.3591	1.3915	1.04	.4491	2.2269	.6000	.4912	.5774	.7462	39.3066	74.0019	66.8998	.0099	13.4303
8.0	2.3591	1.3915	1.04	.4491	2.2269	.6500	.5578	.6334	.8346	40.6362	71.4594	64.9248	.0105	13.1009
8.0	2.3591	1.3915	1.04	.4491	2.2269	.7000	.6132	.6908	.9184	41.2204	69.1869	62.9498	.0111	12.7716
8.0	2.3591	1.3915	1.04	.4491	2.2269	.7500	.6603	.7499	.9991	41.3597	67.1022	60.9748	.0118	12.4422
8.0	2.3591	1.3915	1.04	.4491	2.2269	.8000	.7006	.8107	1.0776	41.2111	65.1565	58.9998	.0126	12.1128
8.0	2.3591	1.3915	1.04	.4491	2.2269	.8500	.7354	.8733	1.1548	40.8647	63.3177	57.0248	.0134	11.7834
8.0	2.3591	1.3915	1.04	.4491	2.2269	.9000	.7653	.9379	1.2311	40.3759	61.5636	55.0497	.0142	11.4540
8.0	2.3591	1.3915	1.04	.4491	2.2269	.9500	.7910	1.0045	1.3071	39.7804	59.8778	53.0747	.0152	11.1246
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.0000	.8127	1.0734	1.3832	39.1022	58.2478	51.0997	.0163	10.7952
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.0500	.8310	1.1447	1.4598	38.3576	56.6636	49.1247	.0174	10.4657
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.1000	.8458	1.2185	1.5371	37.5582	55.1174	47.1497	.0187	10.1362
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.1500	.8576	1.2951	1.6156	36.7118	53.6024	45.1747	.0201	9.8067
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.2000	.8662	1.3748	1.6955	35.8243	52.1131	43.1997	.0217	9.4771
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.2500	.8720	1.4576	1.7772	34.8992	50.6446	41.2246	.0234	9.1476
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.3000	.8749	1.5440	1.8610	33.9391	49.1926	39.2496	.0254	8.8179
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.3500	.8749	1.6342	1.9474	32.9462	47.7532	37.2746	.0275	8.4882
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.4000	.8720	1.7286	2.0366	31.9179	46.3230	35.2995	.0299	8.1585
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.4500	.8663	1.8277	2.1291	30.8567	44.8986	33.3245	.0327	7.8287
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.5000	.8577	1.9319	2.2251	29.7600	43.4772	31.3495	.0362	7.4988

8.0	2.3591	1.3915	1.04	.4491	2.2269	.6800	.4912	.5774	.7452	39.3085	74.6019	66.8998	.0099	13.4303
8.0	2.3591	1.3915	1.04	.4491	2.2269	.6500	.5578	.6334	.8346	40.6362	71.4594	64.9248	.0105	13.1009
8.0	2.3591	1.3915	1.04	.4491	2.2269	.7000	.6132	.6908	.9184	41.2204	69.1869	62.9498	.0111	12.7716
8.0	2.3591	1.3915	1.04	.4491	2.2269	.7500	.6603	.7499	.9991	41.3597	67.1022	60.9748	.0118	12.4422
8.0	2.3591	1.3915	1.04	.4491	2.2269	.8000	.7006	.8107	1.0776	41.2111	65.1565	58.9998	.0126	12.1128
8.0	2.3591	1.3915	1.04	.4491	2.2269	.8500	.7354	.8733	1.1548	40.8647	63.2177	57.0248	.0134	11.7834
8.0	2.3591	1.3915	1.04	.4491	2.2269	.9000	.7653	.9379	1.2311	40.3759	61.3636	55.0497	.0142	11.4540
8.0	2.3591	1.3915	1.04	.4491	2.2269	.9500	.7910	1.0045	1.3071	39.7804	59.6778	53.0747	.0152	11.1246
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.0000	.8127	1.0734	1.3832	39.1022	58.0478	51.0997	.0163	10.7952
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.0500	.8310	1.1447	1.4598	38.3576	56.6636	49.1247	.0174	10.4657
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.1000	.8458	1.2185	1.5371	37.5682	55.1174	47.1497	.0187	10.1362
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.1500	.8576	1.2951	1.6156	36.7118	53.6024	45.1747	.0201	9.8067
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.2000	.8662	1.3748	1.6955	35.8243	52.1131	43.1997	.0217	9.4771
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.2500	.8720	1.4576	1.7772	34.8992	50.6446	41.2246	.0234	9.1476
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.3000	.8749	1.5440	1.8610	33.9391	49.1926	39.2496	.0254	8.8179
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.3500	.8749	1.6342	1.9474	32.9452	47.7532	37.2746	.0275	8.4882
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.4000	.8720	1.7286	2.0366	31.9179	46.3230	35.2996	.0299	8.1585
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.4500	.8665	1.8277	2.1291	30.8567	44.8986	33.3246	.0327	7.8287
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.5000	.8577	1.9319	2.2254	29.7604	43.4772	31.3496	.0357	7.4988
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.5500	.8460	2.0417	2.3260	28.6268	42.0558	29.3746	.0392	7.1688
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.6000	.8312	2.1578	2.4316	27.4529	40.6320	27.3995	.0431	6.8388
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.6500	.8131	2.2810	2.5429	26.2347	39.2033	25.4245	.0476	6.5085
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.7000	.7915	2.4121	2.6608	24.9670	37.7677	23.4495	.0526	6.1781
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.7500	.7661	2.5523	2.7862	23.6429	36.3239	21.4745	.0584	5.8475
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.8000	.7365	2.7029	2.9204	22.2533	34.8715	19.4995	.0651	5.5165
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.8500	.7022	2.8653	3.0648	20.7864	33.4121	17.5245	.0726	5.1852
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.9000	.6626	3.0417	3.2214	19.2260	31.9509	15.5494	.0812	4.8533
8.0	2.3591	1.3915	1.04	.4491	2.2269	1.9500	.6167	3.2346	3.3925	17.5491	30.5010	13.5744	.0909	4.5207
8.0	2.3591	1.3915	1.04	.4491	2.2269	2.0000	.5630	3.4472	3.5812	15.7220	29.0920	11.5994	.1016	4.1868
8.0	2.3591	1.3915	1.04	.4491	2.2269	2.0500	.4994	3.6842	3.7919	13.6916	27.7953	9.6244	.1130	3.8511
8.0	2.3591	1.3915	1.04	.4491	2.2269	2.1000	.4221	3.9520	4.0310	11.3656	26.6032	7.6494	.1240	3.5121
8.0	2.3591	1.3915	1.04	.4491	2.2269	2.1500	.3235	4.2612	4.3092	8.5561	26.7806	5.6744	.1322	3.1665
8.0	2.3591	1.3915	1.04	.4491	2.2269	2.2000	.1812	4.6356	4.6493	4.7095	32.6018	3.6994	.1319	2.8040
8.0	2.3591	1.3915	1.08	.4760	2.1008	.4800	.0798	.4471	.4532	9.4390	87.4475	70.9106	.0084	15.4611
8.0	2.3591	1.3915	1.08	.4760	2.1008	.5300	.2888	.4992	.5685	28.5828	80.5776	68.8596	.0088	15.1191
8.0	2.3591	1.3915	1.08	.4760	2.1008	.5800	.3942	.5526	.6682	34.2029	76.6701	66.8087	.0092	14.7770
8.0	2.3591	1.3915	1.08	.4760	2.1008	.6300	.4716	.6073	.7586	36.8188	73.5563	64.7577	.0097	14.4348
8.0	2.3591	1.3915	1.08	.4760	2.1008	.6800	.5333	.6634	.8431	38.1088	71.4567	62.7067	.0102	14.0927
8.0	2.3591	1.3915	1.08	.4760	2.1008	.7300	.5844	.7210	.9236	38.6780	69.2201	60.6557	.0108	13.7505
8.0	2.3591	1.3915	1.08	.4760	2.1008	.7800	.6273	.7802	1.0012	38.8089	67.1677	58.6048	.0114	13.4084
8.0	2.3591	1.3915	1.08	.4760	2.1008	.8300	.6638	.8410	1.0768	38.6507	65.2524	56.5538	.0120	13.0662
8.0	2.3591	1.3915	1.08	.4760	2.1008	.8800	.6947	.9035	1.1512	38.2907	63.4435	54.5028	.0127	12.7239
8.0	2.3591	1.3915	1.08	.4760	2.1008	.9300	.7209	.9680	1.2248	37.7831	61.7193	52.4518	.0135	12.3817
8.0	2.3591	1.3915	1.08	.4760	2.1008	.9800	.7429	1.0344	1.2980	37.1632	60.0642	50.4009	.0143	12.0394
8.0	2.3591	1.3915	1.08	.4760	2.1008	1.0300	.7609	1.1030	1.3713	36.4545	58.4661	48.3499	.0151	11.6970
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8.0	2.3591	1.3915	1.12	.5051	1.9797	.8100	.5909	.8104	1.0032	36.1122	67.3929	56.1436	.0109	14.4103
8.0	2.3591	1.3915	1.12	.5051	1.9797	.8600	.6235	.8713	1.0761	35.9426	65.5149	54.0167	.0115	14.0552
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8.0	2.3591	1.3915	1.12	.5051	1.9797	1.0100	.6911	1.0644	1.2897	34.3814	60.4524	47.6358	.0135	12.9897
8.0	2.3591	1.3915	1.12	.5051	1.9797	1.0600	.7052	1.1327	1.3604	33.6335	58.9035	[illegible]	[illegible]	[illegible]
8.0	2.3591	1.3915	1.12	.5051	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

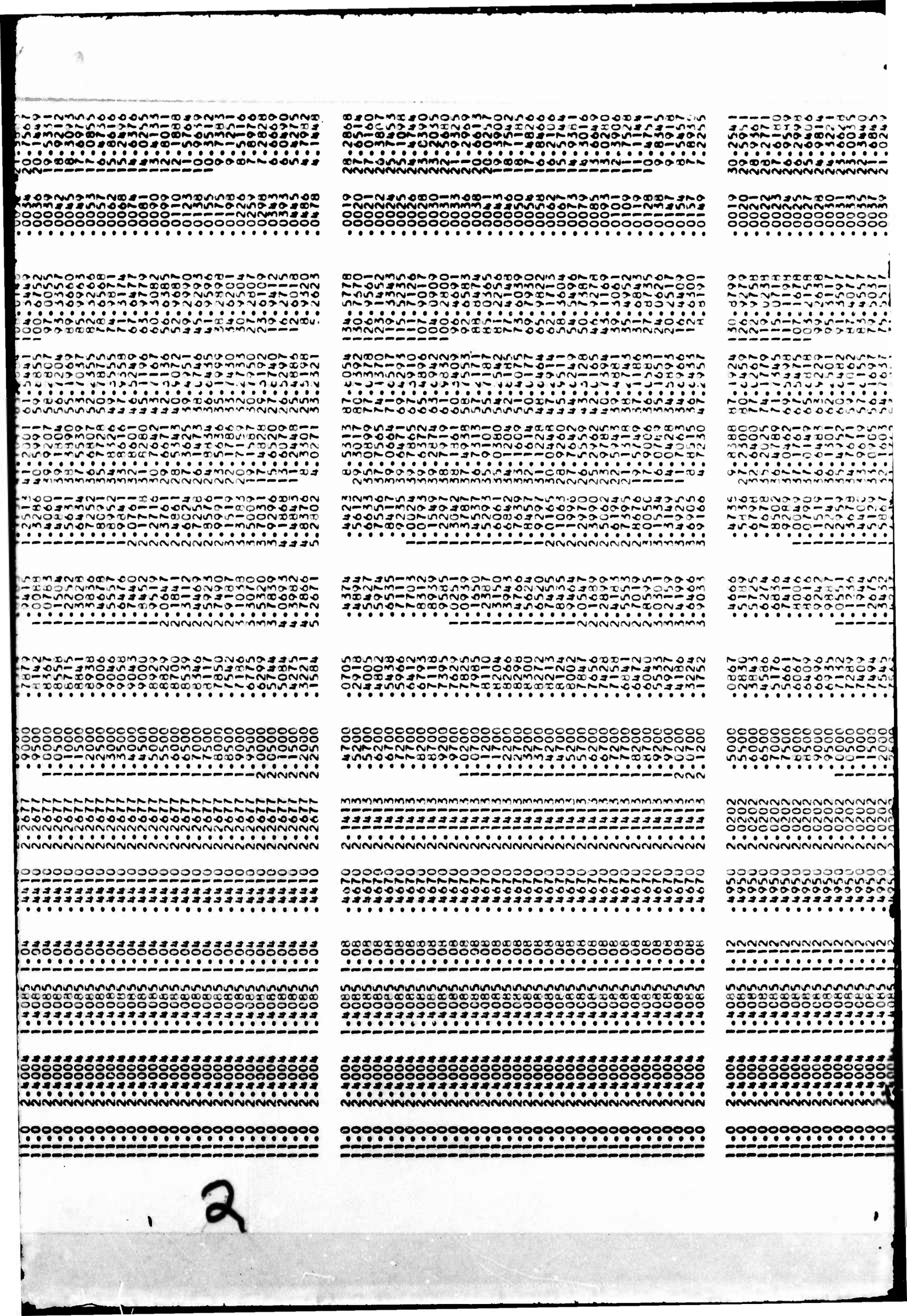
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8.0	2.3591	1.3915	1.20	.5725	1.7466	1.2300	.7029	1.3487	1.4878	24.9751	58.1867	34.5400	.0128	13.7742
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8.0	2.3591	1.3915	1.20	.5725	1.7466	1.6300	.5485	2.0285	2.0717	11.7310	53.1162	16.3091	.0146	10.6929
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.6800	.4802	2.1302	2.1556	8.9034	51.4136	14.0302	.0143	10.3000
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.7300	.3816	2.2372	2.2437	4.3515	72.7334	11.7513	.0138	9.9021

8.0	2.3591	1.3915	1.20	.5725	1.7466	1.3300	.5508	1.5006	1.6242	22.4950	56.2258	29.9822	.0135	13.0087
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.3800	.5326	1.5805	1.6941	21.1023	55.4533	27.7034	.0139	12.6253
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.4300	.5090	1.6632	1.7655	19.5935	54.6731	25.4245	.0142	12.2412
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.4800	.4794	1.7491	1.8386	17.9479	54.5581	23.1457	.0145	11.8562
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.5300	.4426	1.8384	1.9138	16.1336	54.6327	20.8668	.0146	11.4702
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.5800	.3967	1.9314	1.9913	14.0955	55.3266	18.5879	.0147	11.0826
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.6300	.3385	2.0285	2.0717	11.7310	57.1162	16.3091	.0146	10.6929
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.6800	.2602	2.1302	2.1556	8.8034	61.4136	14.0302	.0143	10.3000
8.0	2.3591	1.3915	1.20	.5725	1.7466	1.7300	.1316	2.2372	2.2437	4.3515	72.7334	11.7513	.0138	9.9021
8.0	2.3591	1.3915	1.24	.6130	1.6313	.6200	.0834	.5854	.5907	7.6578	86.6159	61.4002	.0080	19.8349
8.0	2.3591	1.3915	1.24	.6130	1.6313	.6700	.2318	.6340	.6761	19.0823	80.5092	59.0453	.0082	19.4414
8.0	2.3591	1.3915	1.24	.6130	1.6313	.7200	.3091	.6937	.7549	23.2311	77.5386	56.6905	.0085	19.0478
8.0	2.3591	1.3915	1.24	.6130	1.6313	.7700	.3638	.7497	.8291	25.2882	74.9029	54.3357	.0087	18.6541
8.0	2.3591	1.3915	1.24	.6130	1.6313	.8200	.4052	.8069	.9001	26.2964	72.6692	51.9809	.0090	18.2603
8.0	2.3591	1.3915	1.24	.6130	1.6313	.8700	.4371	.8655	.9686	26.6771	70.7038	49.6260	.0093	17.8664
8.0	2.3591	1.3915	1.24	.6130	1.6313	.9200	.4615	.9255	1.0354	26.6413	68.9389	47.2712	.0096	17.4723
8.0	2.3591	1.3915	1.24	.6130	1.6313	.9700	.4796	.9870	1.1011	26.3080	67.3366	44.9164	.0098	17.0781
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.0200	.4920	1.0501	1.1658	25.7485	65.8753	42.5616	.0101	16.6836
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.0700	.4991	1.1148	1.2302	25.0074	64.5444	40.2067	.0104	16.2890
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.1200	.5013	1.1813	1.2943	24.1124	63.3416	37.8519	.0107	15.8940
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.1700	.4986	1.2497	1.3584	23.0796	62.2727	35.4971	.0109	15.4988
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.2200	.4909	1.3201	1.4229	21.9168	61.3524	33.1423	.0112	15.1031
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.2700	.4780	1.3926	1.4879	20.6238	60.6075	30.7874	.0114	14.7070
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.3200	.4595	1.4673	1.5537	19.1931	60.0822	28.4326	.0116	14.3102
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.3700	.4348	1.5445	1.6204	17.6073	59.8492	26.0778	.0117	13.9127
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.4200	.4028	1.6243	1.6884	15.8352	60.0321	23.7230	.0118	13.5142
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.4700	.3616	1.7069	1.7576	13.8205	60.8549	21.3681	.0118	13.1144
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.5200	.3080	1.7926	1.8291	11.4532	62.1725	19.0133	.0117	12.7128
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.5700	.2337	1.8818	1.9025	8.4672	66.9211	16.6585	.0115	12.3086
8.0	2.3591	1.3915	1.24	.6130	1.6313	1.6200	.1024	1.9747	1.9786	3.6178	78.3891	14.3037	.0111	11.9006
8.0	2.3591	1.3915	1.28	.6607	1.5135	.6700	.0875	.6363	.6417	7.4388	86.4627	58.0275	.0078	20.8895
8.0	2.3591	1.3915	1.28	.6607	1.5135	.7200	.2146	.6906	.7206	16.5939	81.0680	55.5967	.0080	20.4829
8.0	2.3591	1.3915	1.28	.6607	1.5135	.7700	.2819	.7459	.7944	20.1060	77.9030	53.1659	.0083	20.0763
8.0	2.3591	1.3915	1.28	.6607	1.5135	.8200	.3285	.8026	.8646	21.8310	75.4447	50.7351	.0085	19.6695
8.0	2.3591	1.3915	1.28	.6607	1.5135	.8700	.3625	.8604	.9321	22.6199	73.3892	48.3043	.0087	19.2625
8.0	2.3591	1.3915	1.28	.6607	1.5135	.9200	.3872	.9197	.9978	22.8271	71.6154	45.8735	.0089	18.8553
8.0	2.3591	1.3915	1.28	.6607	1.5135	.9700	.4044	.9803	1.0621	22.6336	70.0654	43.4427	.0091	18.4479
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.0200	.4150	1.0424	1.1254	22.1413	68.7116	41.0119	.0093	18.0403
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.0700	.4195	1.1061	1.1881	21.4103	67.5452	38.5812	.0094	17.6323
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.1200	.4182	1.1714	1.2504	20.4753	66.5728	36.1504	.0096	17.2239
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.1700	.4110	1.2385	1.3127	19.3535	65.8171	33.7196	.0097	16.8151
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.2200	.3975	1.3074	1.3751	18.0478	65.2216	31.2888	.0098	16.4057
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.2700	.3773	1.3784	1.4379	16.5464	65.1618	28.8580	.0099	15.9955
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.3200	.3492	1.4514	1.5013	14.8178	65.4689	26.4272	.0100	15.5845
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.3700	.3112	1.5267	1.5656	12.7969	66.4849	23.9964	.0099	15.1723
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.4200	.2591	1.6045	1.6309	10.3416	68.1154	21.5656	.0098	14.7585
8.0	2.3591	1.3915	1.28	.6607	1.5135	1.4700	.1818	1.6849	1.6977	7.0488	73.5386	19.1349	.0096	14.3425
8.0	2.3591	1.3915	1.32	.7206	1.3877	.7300	.0777	.6985	.7024	6.0731	86.6411	54.0015	.0077	21.8853
8.0	2.3591	1.3915	1.32	.7206	1.3877	.7800	.1878	.7536	.7751	13.5368	81.6103	51.4947	.0078	21.4656
8.0	2.3591	1.3915	1.32	.7206	1.3877	.8300	.2440	.8099	.8442	16.3337	78.7188	48.9880	.0080	21.0457
8.0	2.3591	1.3915	1.32	.7206	1.3877	.8800	.2809	.8674	.9105	17.7015	76.5377	46.4812	.0081	20.6256
8.0	2.3591	1.3915	1.32	.7206	1.3877	.9300	.3054	.9261	.9748	18.1818	74.7884	43.9745	.0083	20.2051
8.0	2.3591	1.3915	1.32	.7206	1.3877	.9800	.3206	.9863	1.0377	18.1147	73.3694	41.4677	.0084	19.7844
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.0300	.3277	1.0478	1.0995	17.6465	72.2454	38.9610	.0085	19.3633
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.0800	.3272	1.1108	1.1607	16.8542	71.4195	36.4542	.0086	18.9417
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.1300	.3192	1.1754	1.2214	15.7732	70.9298	33.9475	.0087	18.5196
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.1800	.3031	1.2417	1.2820	14.4068	70.8584	31.4407	.0087	18.0968
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.2300	.2777	1.3097	1.3427	12.7211	71.3629	28.9340	.0087	17.6732
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.2800	.2400	1.3796	1.4037	10.6189	72.7591	26.4272	.0087	17.2488
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.3300	.1829	1.4516	1.4652	7.8296	75.6103	23.9205	.0086	16.8222
8.0	2.3591	1.3915	1.32	.7206	1.3877	1.3800	.0692	1.5257	1.5276	2.8716	84.1302	21.4137	.0084	16.3940
8.0	2.3591	1.3915	1.36	.8067	1.2396	.8100	.0370	.7856	.7844	2.6153	88.2528	48.7601	.0075	22.7276
8.0	2.3591	1.3915	1.36	.8067	1.2396	.8600	.1404	.8400	.8511	9.2712	83.1165	46.1774	.0076	22.2943
8.0	2.3591	1.3915	1.36	.8067	1.2396	.9100	.1820	.8976	.9154	11.3101	80.7120	43.5947	.0077	21.8608
8.0	2.3591	1.3915	1.36	.8067	1.2396	.9600	.2040	.9565	.9779	11.9993	79.1332	41.0119	.0078	21.4268
8.0	2.3591	1.3915	1.36	.8067	1.2396	1.0100	.2127	1.0167	1.0390	11.8937	78.1393	38.4292	.0078	20.9924
8.0	2.3591	1.3915	1.36	.8067	1.2396	1.0600	.2098	1.0782	1.0991	11.1940	77.7098	35.8465	.0078	20.5574
8.0	2.3591	1.3915	1.36	.8067	1.2396	1.1100	.1947	1.1412	1.1587	9.9504	77.9584	33.2638	.0078	20.1217
8.0	2.3591	1.3915	1.36	.8067	1.2396	1.1600	.1645	1.2058	1.2179	8.0689	79.0099	30.6811	.0078	19.6851
8.0	2.3591	1.3915	1.36	.8067	1.2396	1.2100	.1069	1.2720	1.2770	5.0493	82.5075	28.0984	.0077	19.2475

LOOP BRANCH (MI FROM 1 TO 5)

GAMMA = 1.4

MI	MIe	DELMAX	DEL	XMIN	XMAX	X(M2U=)	Y(M2V=)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
11.0	2.4004	1.4085	1.00	.4166	2.4004	.4200	.0817	.3894	.3967	11.0136	87.6364	140.7599	.0020	24.4311
11.0	2.4004	1.4085	1.00	.4166	2.4004	.4700	.3197	.4411	.5335	34.2246	80.5962	137.2313	.0021	23.8429
11.0	2.4004	1.4085	1.00	.4166	2.4004	.5200	.4390	.4941	.6467	40.1737	76.8583	133.7027	.0022	23.2548
11.0	2.4004	1.4085	1.00	.4166	2.4004	.5700	.5275	.5486	.7475	42.7833	73.9232	130.1742	.0023	22.6667
11.0	2.4004	1.4085	1.00	.4166	2.4004	.6200	.5990	.6047	.8408	44.0132	71.4048	126.6456	.0025	22.0785
11.0	2.4004	1.4085	1.00	.4166	2.4004	.6700	.6590	.6623	.9290	44.5276	69.1501	123.1170	.0027	21.4904
11.0	2.4004	1.4085	1.00	.4166	2.4004	.7200	.7105	.7217	1.0139	44.6212	67.0794	119.5884	.0029	20.9023
11.0	2.4004	1.4085	1.00	.4166	2.4004	.7700	.7552	.7829	1.0966	44.4459	65.1450	116.0598	.0031	20.3141
11.0	2.4004	1.4085	1.00	.4166	2.4004	.8200	.7943	.8461	1.1779	44.0885	63.3157	112.5312	.0033	19.7260
11.0	2.4004	1.4085	1.00	.4166	2.4004	.8700	.8285	.9113	1.2585	43.6016	61.5695	109.0027	.0036	19.1378
11.0	2.4004	1.4085	1.00	.4166	2.4004	.9200	.8585	.9789	1.3389	43.0192	59.8904	105.4741	.0038	18.5497
11.0	2.4004	1.4085	1.00	.4166	2.4004	.9700	.8846	1.0488	1.4195	42.3640	58.2658	101.9455	.0042	17.9615
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.0200	.9072	1.1214	1.5008	41.6514	56.6860	98.4169	.0045	17.3734
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.0700	.9266	1.1968	1.5832	40.8924	55.1430	94.8883	.0049	16.7852
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.1200	.9429	1.2753	1.6671	40.0947	53.6302	91.3597	.0053	16.1971
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.1700	.9564	1.3571	1.7528	39.2637	52.1418	87.8312	.0058	15.6089
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.2200	.9671	1.4425	1.8408	38.4033	50.6729	84.3026	.0064	15.0207
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.2700	.9751	1.5319	1.9314	37.5163	49.2190	80.7740	.0071	14.4326
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.3200	.9805	1.6257	2.0251	36.6043	47.7760	77.2454	.0078	13.8444
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.3700	.9833	1.7243	2.1225	35.6683	46.3399	73.7168	.0087	13.2562
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.4200	.9836	1.8283	2.2240	34.7087	44.9073	70.1882	.0097	12.6680
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.4700	.9813	1.9382	2.3304	33.7254	43.4744	66.6597	.0109	12.0797
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.5200	.9765	2.0546	2.4423	32.7177	42.0377	63.1311	.0123	11.4915
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.5700	.9691	2.1789	2.5605	31.6845	40.5935	59.6025	.0139	10.9033
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.6200	.9590	2.3115	2.6861	30.6241	39.1378	56.0739	.0159	10.3150
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.6700	.9462	2.4538	2.8203	29.5343	37.6667	52.5453	.0183	9.7267
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.7200	.9305	2.6074	2.9645	28.4124	36.1755	49.0167	.0212	9.1384
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.7700	.9118	2.7740	3.1204	27.2549	34.6591	45.4882	.0249	8.5500
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.8200	.8899	2.9558	3.2903	26.0573	33.1118	41.9596	.0295	7.9616
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.8700	.8646	3.1559	3.4769	24.8143	31.5266	38.4310	.0353	7.3732
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.9200	.8356	3.3779	3.6839	23.5187	29.8956	34.9024	.0429	6.7847
11.0	2.4004	1.4085	1.00	.4166	2.4004	1.9700	.8024	3.6268	3.9161	22.1616	28.2085	31.3738	.0530	6.1961
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.0200	.7645	3.9092	4.1798	20.7310	26.4526	27.8452	.0667	5.6073
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.0700	.7213	4.2345	4.4842	19.2107	24.6110	24.3167	.0859	5.0184
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.1200	.6716	4.6162	4.8423	17.5776	22.6611	20.7881	.1137	4.4292
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.1700	.6139	5.0750	5.2742	15.7976	20.5697	17.2595	.1556	3.8395
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.2200	.5459	5.6440	5.8121	13.8152	18.2862	13.7309	.2221	3.2490
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.2700	.4631	6.3818	6.5132	11.5312	15.7250	10.2023	.3337	2.6570
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.3200	.3563	7.4059	7.4927	8.7304	12.7165	6.6737	.5312	2.0608
11.0	2.4004	1.4085	1.00	.4166	2.4004	2.3700	.1961	9.0271	9.0580	4.7303	8.6105	3.1452	.8620	1.4475
11.0	2.4004	1.4085	1.04	.4410	2.2677	.4500	.1275	.4185	.4350	15.8176	86.1689	137.3725	.0019	26.2626
11.0	2.4004	1.4085	1.04	.4410	2.2677	.5000	.3216	.4705	.5594	32.7477	80.1587	133.7027	.0021	25.6509
11.0	2.4004	1.4085	1.04	.4410	2.2677	.5500	.4308	.5238	.6654	38.0699	76.5680	130.0330	.0022	25.0391
11.0	2.4004	1.4085	1.04	.4410	2.2677	.6000	.5126	.5786	.7610	40.5076	73.7077	126.3633	.0023	24.4274
11.0	2.4004	1.4085	1.04	.4410	2.2677	.6500	.5787	.6348	.8499	41.6797	71.2392	122.6936	.0024	23.8156
11.0	2.4004	1.4085	1.04	.4410	2.2677	.7000	.6341	.6926	.9345	42.1720	69.0221	119.0238	.0026	23.2039
11.0	2.4004	1.4085	1.04	.4410	2.2677	.7500	.6814	.7520	1.0160	42.2545	66.9821	115.3541	.0028	22.5921
11.0	2.4004	1.4085	1.04	.4410	2.2677	.8000	.7221	.8132	1.0955	42.0701	65.0741	111.6844	.0030	21.9803
11.0	2.4004	1.4085	1.04	.4410	2.2677	.8500	.7574	.8763	1.1737	41.7015	63.2684	108.0146	.0032	21.3685
11.0	2.4004	1.4085	1.04	.4410	2.2677	.9000	.7879	.9415	1.2513	41.2001	61.5441	104.3449	.0034	20.7567
11.0	2.4004	1.4085	1.04	.4410	2.2677	.9500	.8142	1.0088	1.3286	40.5991	59.8855	100.6752	.0036	20.1449
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.0000	.8367	1.0783	1.4060	39.9207	58.2807	97.0055	.0039	19.5331
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.0500	.8558	1.1504	1.4841	39.1804	56.7204	93.3357	.0042	18.9212
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.1000	.8715	1.2252	1.5631	38.3890	55.1969	89.6660	.0045	18.3093
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.1500	.8841	1.3028	1.6434	37.5539	53.7037	85.9963	.0049	17.6975
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.2000	.8938	1.3836	1.7252	36.6807	52.2355	82.3266	.0053	17.0855
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.2500	.9006	1.4678	1.8091	35.7728	50.7875	78.6568	.0057	16.4736
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.3000	.9046	1.5557	1.8952	34.8326	49.3555	74.9871	.0062	15.8616
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.3500	.9058	1.6476	1.9841	33.8616	47.9358	71.3174	.0068	15.2496
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.4000	.9043	1.7440	2.0761	32.8601	46.5249	67.6477	.0074	14.6376
11.0	2.4004	1.4085	1.04	.4410	2.2677	1.4500	.9006	1.8452	2.1714	31.8280	45.1196	63.9779	.0081	14.0255



11.0	2.4004	1.4085	1.12	.4950	2.0202	1.0500	.7289	1.1236	1.3678	34.7671	59.1062	87.4077	.0033	23.0035
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.1000	.7409	1.1944	1.4400	33.9619	57.7155	83.4557	.0035	22.3440
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.1500	.7494	1.2675	1.5129	33.0905	56.1697	79.5037	.0037	21.6845
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.2000	.7545	1.3432	1.5867	32.1603	54.7637	75.5517	.0039	21.0249
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.2500	.7563	1.4217	1.6616	31.1762	53.3941	71.5997	.0042	20.3652
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.3000	.7548	1.5031	1.7381	30.1408	52.0585	67.6477	.0044	19.7054
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.3500	.7500	1.5877	1.8163	29.0550	50.7559	63.6956	.0047	19.0455
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.4000	.7418	1.6758	1.8965	27.9182	49.4866	59.7436	.0050	18.3853
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.4500	.7302	1.7677	1.9791	26.7283	48.2526	55.7916	.0053	17.7250
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.5000	.7149	1.8637	2.0645	25.4814	47.0582	51.8396	.0056	17.0644
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.5500	.6957	1.9642	2.1530	24.1719	45.9108	47.8876	.0059	16.4035
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.6000	.6723	2.0697	2.2450	22.7917	44.8229	43.9356	.0063	15.7422
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.6500	.6443	2.1807	2.3411	21.3297	43.8142	39.9836	.0066	15.0804
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.7000	.6110	2.2979	2.4418	19.7700	42.9179	36.0315	.0070	14.4179
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.7500	.5717	2.4218	2.5478	18.0901	42.1900	32.0795	.0073	13.7545
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.8000	.5248	2.5535	2.6598	16.2558	41.6328	28.1275	.0077	13.0897
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.8500	.4685	2.6939	2.7790	14.2119	41.2488	24.1755	.0079	12.4230
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.9000	.3990	2.8445	2.9065	11.8587	42.1009	20.2235	.0080	11.7531
11.0	2.4004	1.4085	1.12	.4950	2.0202	1.9500	.3080	3.0070	3.0443	8.9747	45.9329	16.2715	.0079	11.0778
11.0	2.4004	1.4085	1.12	.4950	2.0202	2.0000	.1659	3.1843	3.1952	4.7409	58.2618	12.3195	.0075	10.3920
11.0	2.4004	1.4085	1.16	.5255	1.9029	.5300	.0782	.4958	.5012	8.3955	87.3636	127.0125	.0019	32.2870
11.0	2.4004	1.4085	1.16	.5255	1.9029	.5800	.2672	.5484	.6033	24.7378	80.7932	122.9194	.0020	31.6044
11.0	2.4004	1.4085	1.16	.5255	1.9029	.6300	.3629	.6023	.6950	29.9451	77.2100	118.8262	.0020	30.9216
11.0	2.4004	1.4085	1.16	.5255	1.9029	.6800	.4325	.6573	.7790	32.4553	74.3982	114.7331	.0021	30.2389
11.0	2.4004	1.4085	1.16	.5255	1.9029	.7300	.4872	.7158	.8581	33.7176	71.9927	110.6399	.0022	29.5561
11.0	2.4004	1.4085	1.16	.5255	1.9029	.7800	.5317	.7716	.9338	34.2789	69.8475	106.5468	.0023	28.8733
11.0	2.4004	1.4085	1.16	.5255	1.9029	.8300	.5683	.8310	1.0071	34.4006	67.8871	102.4536	.0024	28.1904
11.0	2.4004	1.4085	1.16	.5255	1.9029	.8800	.5986	.8919	1.0787	34.2252	66.0665	98.3604	.0025	27.5074
11.0	2.4004	1.4085	1.16	.5255	1.9029	.9300	.6235	.9545	1.1492	33.8570	64.3566	94.2673	.0027	26.8244
11.0	2.4004	1.4085	1.16	.5255	1.9029	.9800	.6435	1.0189	1.2189	33.2891	62.7376	90.1741	.0028	26.1413
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.0300	.6591	1.0852	1.2883	32.6161	61.1955	86.0810	.0029	25.4582
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.0800	.6707	1.1534	1.3577	31.8411	59.7206	81.9878	.0031	24.7749
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.1300	.6784	1.2238	1.4274	30.9795	58.3059	77.8947	.0032	24.0915
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.1800	.6824	1.2965	1.4977	30.0418	56.9470	73.8015	.0034	23.4080
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.2300	.6828	1.3716	1.5687	29.0344	55.6417	69.7083	.0035	22.7244
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.2800	.6795	1.4493	1.6409	27.9608	54.3899	65.6152	.0037	22.0405
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.3300	.6725	1.5299	1.7143	26.8218	53.1941	61.5220	.0039	21.3565
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.3800	.6617	1.6134	1.7893	25.6162	52.0597	57.4289	.0040	20.6721
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.4300	.6469	1.7003	1.8662	24.3401	50.9961	53.3357	.0042	19.9875
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.4800	.6278	1.7907	1.9452	22.9870	50.0189	49.2426	.0044	19.3024
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.5300	.6041	1.8850	2.0266	21.5469	49.1522	45.1494	.0046	18.6168
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.5800	.5752	1.9835	2.1108	20.0054	48.4352	41.0563	.0048	17.9306
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.6300	.5404	2.0866	2.1983	18.3409	47.9325	36.9631	.0049	17.2434
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.6800	.4983	2.1949	2.2894	16.5205	47.7570	32.8699	.0050	16.5550
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.7300	.4471	2.3088	2.3847	14.4909	48.1226	28.7768	.0051	15.8649
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.7800	.3834	2.4292	2.4849	12.1552	49.4886	24.6836	.0051	15.1721
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.8300	.2997	2.5569	2.5909	9.3000	53.0715	20.5905	.0050	14.4752
11.0	2.4004	1.4085	1.16	.5255	1.9029	1.8800	.1700	2.6930	2.7040	5.1668	64.0110	16.4973	.0048	13.7711
11.0	2.4004	1.4085	1.20	.5592	1.7883	.5600	.0314	.5252	.5260	3.2126	88.6961	122.9758	.0018	34.3854
11.0	2.4004	1.4085	1.20	.5592	1.7883	.6100	.2435	.5780	.6224	21.7597	81.2463	118.7415	.0019	33.6790
11.0	2.4004	1.4085	1.20	.5592	1.7883	.6600	.3355	.6321	.7091	26.9488	77.6401	114.5072	.0020	32.9725
11.0	2.4004	1.4085	1.20	.5592	1.7883	.7100	.4011	.6873	.7895	29.4651	74.6476	110.2729	.0021	32.2661
11.0	2.4004	1.4085	1.20	.5592	1.7883	.7600	.4519	.7439	.8655	30.7368	72.4766	106.0386	.0022	31.5595
11.0	2.4004	1.4085	1.20	.5592	1.7883	.8100	.4925	.8019	.9385	31.3011	70.5755	101.8043	.0022	30.8529
11.0	2.4004	1.4085	1.20	.5592	1.7883	.8600	.5253	.8613	1.0093	31.4159	68.4673	97.5700	.0023	30.1462
11.0	2.4004	1.4085	1.20	.5592	1.7883	.9100	.5516	.9223	1.0785	31.2229	66.7069	93.3357	.0024	29.4394
11.0	2.4004	1.4085	1.20	.5592	1.7883	.9600	.5724	.9849	1.1466	30.8061	65.0662	89.1014	.0025	28.7325
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.0100	.5883	1.0491	1.2141	30.2183	63.5266	84.8671	.0026	28.0255
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.0600	.5996	1.1152	1.2813	29.4937	62.0764	80.6328	.0027	27.3183
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.1100	.6066	1.1833	1.3484	28.6548	60.7081	76.3985	.0028	26.6110
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.1600	.6094	1.2535	1.4158	27.7162	59.4186	72.1642	.0029	25.9035
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.2100	.6082	1.3256	1.4836	26.6866	58.2081	67.9299	.0030	25.1958
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.2600	.6029	1.4002	1.5522	25.5705	57.0810	63.6956	.0031	24.4879
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.3100	.5934	1.4773	1.6218	24.3685	56.0464	59.4613	.0032	23.7796
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.3600	.5795	1.5570	1.6925	23.0775	55.1201	55.2270	.0034	23.0709
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.4100	.5608	1.6397	1.7646	21.6902	54.3270	50.9927	.0035	22.3617
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.4600	.5370	1.7254	1.8384	20.1946	53.7071	46.7584	.0035	21.6519
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.5100	.5073	1.8145	1.9142	18.5714	53.3247	42.5241	.0036	20.9413
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.5600	.4707	1.9073	1.9922	16.7903	53.2894	38.2898	.0037	20.2296
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.6100	.4254	2.0041	2.0729	14.8012	53.7997	34.0555	.0037	19.5164
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.6600	.3684	2.1053	2.1565	12.5140	55.0576	29.8212	.0037	18.8011
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.7100	.2935	2.2113	2.2436	9.7533	58.0383	25.5869	.0036	18.0827
11.0	2.4004	1.4085	1.20	.5592	1.7883	1.7600	.1793	2.3229	2.3350	5.8170	67.4239	21.3526	.0035	17.3593
11.0	2.4004	1.4085	1.24	.5972	1.6746	.6000	.0551	.5651	.5675	5.2432	87.4729	117.8947	.0018	36.4031
11.0	2.4004	1.4085	1.24	.5972	1.6746	.6500	.2315	.6184	.6565	19.6040	81.2586	113.5192	.0019	35.6729

11.0	2.4004	1.4085	1.24	.5972	1.6746	.8500	.4538	.8440	.9566	28.0293	70.6321	96.0175	.0022	32.7515
11.0	2.4004	1.4085	1.24	.5972	1.6746	.9000	.4813	.9038	1.0249	26.1349	69.0289	91.6420	.0022	32.0209
11.0	2.4004	1.4085	1.24	.5972	1.6746	.9500	.5023	.9651	1.0916	27.8654	67.5833	87.2666	.0023	31.2901
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.0000	.5176	1.0279	1.1575	27.3680	65.6708	82.8911	.0024	30.5592
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.0500	.5279	1.0925	1.2228	26.6909	64.4775	78.5157	.0024	29.8281
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.1000	.5333	1.1588	1.2878	25.8650	63.1970	74.1402	.0025	29.0967
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.1500	.5340	1.2270	1.3528	24.9093	62.0293	69.7648	.0026	28.3651
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.2000	.5301	1.2972	1.4181	23.8344	60.9810	65.3894	.0027	27.6332
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.2500	.5215	1.3695	1.4839	22.6446	60.0662	61.0139	.0027	26.9009
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.3000	.5076	1.4441	1.5503	21.3376	59.3098	56.6385	.0028	26.1682
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.3500	.4888	1.5211	1.6177	19.9050	58.7519	52.2630	.0028	25.4348
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.4000	.4638	1.6007	1.6862	18.3299	58.4575	47.8876	.0029	24.7007
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.4500	.4318	1.6831	1.7561	16.5831	58.5358	43.5121	.0029	23.9657
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.5000	.3911	1.7685	1.8276	14.6143	59.1812	39.1367	.0029	23.2295
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.5500	.3388	1.8572	1.9010	12.3294	60.7771	34.7613	.0029	22.4911
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.6000	.2683	1.9495	1.9767	9.5185	64.4265	30.3858	.0029	21.7504
11.0	2.4004	1.4085	1.24	.5972	1.6746	1.6500	.1574	2.0457	2.0550	5.4481	72.7118	26.0104	.0028	21.0059
11.0	2.4004	1.4085	1.28	.6412	1.5596	.6500	.0890	.6159	.6216	7.7969	86.5391	111.6844	.0018	38.3258
11.0	2.4004	1.4085	1.28	.6412	1.5596	.7000	.2236	.6699	.7032	17.7146	81.0620	107.1678	.0019	37.5718
11.0	2.4004	1.4085	1.28	.6412	1.5596	.7500	.2951	.7250	.7791	21.4779	77.6586	102.6512	.0019	36.8177
11.0	2.4004	1.4085	1.28	.6412	1.5596	.8000	.3452	.7814	.8511	23.3426	75.3607	98.1346	.0020	36.0635
11.0	2.4004	1.4085	1.28	.6412	1.5596	.8500	.3825	.8391	.9201	24.2286	73.2589	93.6180	.0020	35.3091
11.0	2.4004	1.4085	1.28	.6412	1.5596	.9000	.4104	.8981	.9871	24.5156	71.4290	89.1014	.0021	34.5546
11.0	2.4004	1.4085	1.28	.6412	1.5596	.9500	.4309	.9585	1.0525	24.3964	69.8096	84.5849	.0021	33.7998
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.0000	.4448	1.0204	1.1168	23.9801	68.5686	80.0683	.0022	33.0449
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.0500	.4529	1.0839	1.1804	23.3315	67.6912	75.5517	.0022	32.2897
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.1000	.4554	1.1490	1.2436	22.4901	65.9750	71.0351	.0023	31.5342
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.1500	.4525	1.2159	1.3066	21.4782	65.0294	66.5185	.0023	30.7783
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.2000	.4440	1.2846	1.3698	20.3057	64.2769	62.0019	.0024	30.0219
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.2500	.4297	1.3554	1.4332	18.9717	63.7576	57.4853	.0024	29.2650
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.3000	.4090	1.4282	1.4972	17.4631	63.5392	52.9687	.0024	28.5074
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.3500	.3808	1.5032	1.5619	15.7511	63.7368	48.4522	.0024	27.7489
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.4000	.3433	1.5807	1.6276	13.7796	64.5567	43.9356	.0024	26.9892
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.4500	.2933	1.6608	1.6944	11.4346	66.4117	39.4190	.0024	26.2279
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.5000	.2224	1.7436	1.7626	8.4338	70.3153	34.9024	.0024	25.4644
11.0	2.4004	1.4085	1.28	.6412	1.5596	1.5500	.0915	1.8295	1.8326	3.3783	80.4067	30.3858	.0023	24.6978
11.0	2.4004	1.4085	1.32	.6948	1.4393	.7000	.0618	.6670	.6696	5.0445	87.4534	105.1918	.0018	40.2947
11.0	2.4004	1.4085	1.32	.6948	1.4393	.7500	.1940	.7217	.7454	14.5004	81.7591	100.5341	.0018	39.5167
11.0	2.4004	1.4085	1.32	.6948	1.4393	.8000	.2578	.7775	.8169	17.8605	78.6932	95.8763	.0019	38.7386
11.0	2.4004	1.4085	1.32	.6948	1.4393	.8500	.3005	.8345	.8851	19.4706	76.3696	91.2186	.0019	37.9603
11.0	2.4004	1.4085	1.32	.6948	1.4393	.9000	.3304	.8928	.9511	20.1609	74.4722	86.5609	.0019	37.1818
11.0	2.4004	1.4085	1.32	.6948	1.4393	.9500	.3509	.9524	1.0153	20.2709	72.8826	81.9031	.0020	36.4030
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.0000	.3634	1.0135	1.0783	19.9716	71.5501	77.2454	.0020	35.6239
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.0500	.3689	1.0760	1.1405	19.3572	70.4582	72.5877	.0020	34.8445
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.1000	.3676	1.1401	1.2020	18.4793	69.6150	67.9299	.0021	34.0646
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.1500	.3596	1.2058	1.2633	17.3621	69.0533	63.2722	.0021	33.2843
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.2000	.3442	1.2732	1.3246	16.0066	68.8383	58.6145	.0021	32.5032
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.2500	.3207	1.3425	1.3860	14.3891	69.0880	53.9568	.0021	31.7214
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.3000	.2869	1.4138	1.4478	12.4462	70.0225	49.2990	.0021	30.9385
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.3500	.2387	1.4871	1.5102	10.0285	72.1033	44.6413	.0021	30.1542
11.0	2.4004	1.4085	1.32	.6948	1.4393	1.4000	.1641	1.5627	1.5734	6.6838	76.6117	39.9836	.0020	29.3681
11.0	2.4004	1.4085	1.36	.7662	1.3051	.7700	.0446	.7406	.7418	3.3171	88.6160	96.4974	.0017	41.9886
11.0	2.4004	1.4085	1.36	.7662	1.3051	.8200	.1605	.7963	.8114	11.0726	82.6164	91.6985	.0018	41.1865
11.0	2.4004	1.4085	1.36	.7662	1.3051	.8700	.2111	.8532	.8780	13.6359	79.9290	86.8996	.0018	40.3841
11.0	2.4004	1.4085	1.36	.7662	1.3051	.9200	.2416	.9114	.9423	14.7146	78.0169	82.1007	.0018	39.5813
11.0	2.4004	1.4085	1.36	.7662	1.3051	.9700	.2593	.9708	1.0049	14.9680	76.5973	77.3019	.0018	38.7783
11.0	2.4004	1.4085	1.36	.7662	1.3051	1.0200	.2668	1.0316	1.0663	14.6386	75.5893	72.5030	.0018	37.9748
11.0	2.4004	1.4085	1.36	.7662	1.3051	1.0700	.2649	1.0938	1.1268	13.9063	74.9945	67.7041	.0019	37.1708
11.0	2.4004	1.4085	1.36	.7662	1.3051	1.1200	.2535	1.1575	1.1868	12.7538	74.8813	62.9052	.0019	36.3661
11.0	2.4004	1.4085	1.36	.7662	1.3051	1.1700	.2312	1.2228	1.2464	11.1779	75.4118	58.1064	.0019	35.5606
11.0	2.4004	1.4085	1.36	.7662	1.3051	1.2200	.1943	1.2897	1.3060	9.0508	76.9484	53.3075	.0019	34.7542
11.0	2.4004	1.4085	1.36	.7662	1.3051	1.2700	.1315	1.3585	1.3657	5.9047	80.5405	48.5086	.0018	33.9464
11.0	2.4004	1.4085	1.40	.8957	1.1164	.9000	.0302	.8835	.8839	1.2217	88.4675	81.4797	.0017	42.7166
11.0	2.4004	1.4085	1.40	.8957	1.1164	.9500	.0943	.9417	.9463	5.6695	85.0033	76.5397	.0017	41.8894
11.0	2.4004	1.4085	1.40	.8957	1.1164	1.0000	.1093	1.0012	1.0072	6.2364	83.4363	71.5997	.0017	41.0617
11.0	2.4004	1.4085	1.40	.8957	1.1164	1.0500	.1003	1.0620	1.0669	5.4584	84.1466	66.6597	.0017	40.2333
11.0	2.4004	1.4085	1.40	.8957	1.1164	1.1000	.0574	1.1242	1.1258	2.9848	86.4660	61.7196	.0017	39.4042

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.4

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
14.0	2.4188	1.4161	1.00	.4134	2.4188	.4200	.1144	.3896	.4038	15.2323	86.7253	227.7539	.0006	38.9305
14.0	2.4188	1.4161	1.00	.4134	2.4188	.4700	.3312	.4414	.5400	35.1701	80.3554	222.0817	.0007	37.9851
14.0	2.4188	1.4161	1.00	.4134	2.4188	.5200	.4486	.4945	.6532	40.7869	76.7063	216.4095	.0007	37.0397
14.0	2.4188	1.4161	1.00	.4134	2.4188	.5700	.5365	.5491	.7541	43.2684	73.6168	210.7374	.0007	36.0943
14.0	2.4188	1.4161	1.00	.4134	2.4188	.6200	.6079	.6053	.8477	44.4332	71.3291	205.0652	.0008	35.1490
14.0	2.4188	1.4161	1.00	.4134	2.4188	.6700	.6679	.6631	.9363	44.9100	69.6976	199.3931	.0009	34.2036
14.0	2.4188	1.4161	1.00	.4134	2.4188	.7200	.7195	.7226	1.0216	44.9804	67.6459	193.7209	.0009	33.2582
14.0	2.4188	1.4161	1.00	.4134	2.4188	.7700	.7644	.7840	1.1047	44.7905	65.1278	188.0487	.0010	32.3128
14.0	2.4188	1.4161	1.00	.4134	2.4188	.8200	.8037	.8474	1.1866	44.4240	63.3130	182.3766	.0011	31.3674
14.0	2.4188	1.4161	1.00	.4134	2.4188	.8700	.8382	.9130	1.2677	43.9318	61.5800	176.7044	.0011	30.4220
14.0	2.4188	1.4161	1.00	.4134	2.4188	.9200	.8684	.9808	1.3487	43.3470	59.9130	171.0323	.0012	29.4767
14.0	2.4188	1.4161	1.00	.4134	2.4188	.9700	.8948	1.0511	1.4300	42.6914	58.2999	165.3601	.0013	28.5313
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.0200	.9178	1.1240	1.5121	41.9802	56.7312	159.6879	.0014	27.5859
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.0700	.9375	1.1999	1.5953	41.2239	55.1989	154.0158	.0016	26.6405
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.1200	.9542	1.2788	1.6800	40.4301	53.6965	148.3436	.0017	25.6951
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.1700	.9680	1.3612	1.7667	39.6041	52.2185	142.6715	.0019	24.7497
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.2200	.9791	1.4473	1.8558	38.7498	50.7598	136.9993	.0021	23.8043
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.2700	.9876	1.5374	1.9476	37.8697	49.3161	131.3271	.0023	22.8588
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.3200	.9934	1.6321	2.0427	36.9656	47.8834	125.6550	.0026	21.9134
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.3700	.9968	1.7317	2.1415	36.0384	46.4580	119.9828	.0028	20.9680
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.4200	.9976	1.8368	2.2447	35.0887	45.0361	114.3107	.0032	20.0226
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.4700	.9959	1.9480	2.3529	34.1163	43.6143	108.6385	.0036	19.0771
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.5200	.9917	2.0661	2.4669	33.1206	42.1891	102.9663	.0041	18.1317
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.5700	.9849	2.1920	2.5875	32.1005	40.7569	97.2942	.0046	17.1863
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.6200	.9755	2.3267	2.7159	31.0547	39.3139	91.6220	.0053	16.2408
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.6700	.9634	2.4715	2.8533	29.9811	37.8561	85.9499	.0061	15.2953
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.7200	.9486	2.6280	3.0012	28.8772	36.3791	80.2777	.0072	14.3498
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.7700	.9308	2.7982	3.1615	27.7397	34.8781	74.6055	.0085	13.4043
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.8200	.9100	2.9844	3.3366	26.5648	33.3475	68.9334	.0101	12.4588
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.8700	.8858	3.1898	3.5296	25.3474	31.7808	63.2612	.0122	11.5132
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.9200	.8581	3.4185	3.7444	24.0813	30.1701	57.5891	.0150	10.5676
14.0	2.4188	1.4161	1.00	.4134	2.4188	1.9700	.8264	3.6758	3.9862	22.7585	28.5062	51.9169	.0188	9.6219
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.0200	.7903	3.9693	4.2623	21.3684	26.7768	46.2447	.0240	8.6762
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.0700	.7492	4.3092	4.5827	19.8971	24.9666	40.5726	.0316	7.7303
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.1200	.7021	4.7109	4.9626	18.3250	23.0544	34.9004	.0429	6.7843
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.1700	.6479	5.1981	5.4249	16.6236	21.0104	29.2283	.0608	5.8381
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.2200	.5844	5.8098	6.0077	14.7485	18.7895	23.5561	.0910	4.8914
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.2700	.5084	6.6158	6.7797	12.6236	16.3175	17.8839	.1468	3.9439
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.3200	.4131	7.7599	7.8819	10.0968	13.4540	12.2118	.2628	2.9944
14.0	2.4188	1.4161	1.00	.4134	2.4188	2.3700	.2809	9.6088	9.6761	6.7601	9.6607	6.5396	.5412	2.0380
14.0	2.4188	1.4161	1.04	.4375	2.2858	.4400	.0681	.4085	.4133	8.7976	87.9812	223.4884	.0006	42.0438
14.0	2.4188	1.4161	1.04	.4375	2.2858	.4900	.3063	.4603	.5428	32.0099	80.7553	217.5893	.0006	41.0605
14.0	2.4188	1.4161	1.04	.4375	2.2858	.5400	.4219	.5135	.6516	38.0010	77.6300	211.6903	.0007	40.0772
14.0	2.4188	1.4161	1.04	.4375	2.2858	.5900	.5071	.5680	.7490	40.6812	74.1129	205.7913	.0007	39.0939
14.0	2.4188	1.4161	1.04	.4375	2.2858	.6400	.5757	.6240	.8393	41.9703	71.6136	199.8922	.0008	38.1106
14.0	2.4188	1.4161	1.04	.4375	2.2858	.6900	.6329	.6816	.9250	42.5288	69.3780	193.9932	.0008	37.1273
14.0	2.4188	1.4161	1.04	.4375	2.2858	.7400	.6817	.7409	1.0074	42.6532	67.3266	188.0941	.0009	36.1440
14.0	2.4188	1.4161	1.04	.4375	2.2858	.7900	.7238	.8020	1.0877	42.4978	65.4116	182.1951	.0009	35.1607
14.0	2.4188	1.4161	1.04	.4375	2.2858	.8400	.7604	.8649	1.1666	42.1510	63.6020	176.2960	.0010	34.1774
14.0	2.4188	1.4161	1.04	.4375	2.2858	.8900	.7920	.9299	1.2448	41.6671	61.8758	170.3970	.0011	33.1941
14.0	2.4188	1.4161	1.04	.4375	2.2858	.9400	.8195	.9970	1.3226	41.0812	60.2170	164.4979	.0011	32.2107
14.0	2.4188	1.4161	1.04	.4375	2.2858	.9900	.8430	1.0664	1.4007	40.4165	58.6134	158.5989	.0012	31.2274
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.0400	.8631	1.1383	1.4793	39.6891	57.0554	152.6998	.0013	30.2440
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.0900	.8798	1.2129	1.5588	38.9104	55.5350	146.8008	.0014	29.2606
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.1400	.8935	1.2905	1.6396	38.0881	54.0459	140.9017	.0015	28.2772
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.1900	.9042	1.3711	1.7220	37.2280	52.5824	135.0027	.0017	27.2938
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.2400	.9120	1.4552	1.8064	36.3339	51.1398	129.1036	.0018	26.3103
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.2900	.9170	1.5430	1.8931	35.4083	49.7138	123.2046	.0020	25.3269
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.3400	.9193	1.6349	1.9826	34.4528	48.3007	117.3056	.0022	24.3434
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.3900	.9188	1.7313	2.0753	33.4688	46.8971	111.4065	.0025	23.3600

14.0	2.4188	1.4161	1.04	.4375	2.2858	.8900	.7920	.8889	1.1686	42.1579	63.6020	176.2960	.0010	34.1774
14.0	2.4188	1.4161	1.04	.4375	2.2858	.9200	.8195	.9220	1.2448	41.6671	61.6758	170.3970	.0011	33.1941
14.0	2.4188	1.4161	1.04	.4375	2.2858	.9400	.8195	.9970	1.3226	41.0812	60.6170	164.4979	.0011	32.2107
14.0	2.4188	1.4161	1.04	.4375	2.2858	.9900	.8430	1.0664	1.4007	40.4165	58.6134	158.5989	.0012	31.2274
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.0400	.8631	1.1383	1.4793	39.6891	57.6554	152.6998	.0013	30.2440
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.0900	.8798	1.2129	1.5588	38.9104	55.6350	146.8008	.0014	29.2606
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.1400	.8935	1.2905	1.6396	38.0881	54.6459	140.9017	.0015	28.2772
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.1900	.9042	1.3711	1.7220	37.2280	52.5824	135.0027	.0017	27.2938
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.2400	.9120	1.4552	1.8064	36.3339	51.1398	129.1036	.0018	26.3105
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.2900	.9170	1.5430	1.8931	35.4083	49.1138	123.2046	.0020	25.3269
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.3400	.9193	1.6348	1.9826	34.4528	48.0007	117.3056	.0022	24.3434
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.3900	.9189	1.7312	2.0752	33.4681	46.0969	111.4065	.0024	23.3598
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.4400	.9158	1.8324	2.1716	32.4542	45.0992	105.5075	.0026	22.3763
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.4900	.9099	1.9391	2.2721	31.4102	44.1045	99.6084	.0029	21.3926
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.5400	.9012	2.0519	2.3774	30.3349	42.1100	93.7094	.0032	20.4090
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.5900	.8896	2.1716	2.4883	29.2262	41.1126	87.8103	.0036	19.4252
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.6400	.8750	2.2988	2.6055	28.0813	39.1098	81.9113	.0040	18.4414
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.6900	.8573	2.4347	2.7301	26.8964	38.1088	76.0122	.0045	17.4575
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.7400	.8362	2.5806	2.8631	25.6669	37.1069	70.1132	.0051	16.4734
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.7900	.8115	2.7378	3.0059	24.3866	35.1420	64.2141	.0058	15.4892
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.8400	.7828	2.9082	3.1604	23.0476	34.1921	58.3151	.0066	14.5048
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.8900	.7498	3.0941	3.3287	21.6396	32.1264	52.4160	.0076	13.5201
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.9400	.7118	3.2983	3.5133	20.1484	31.1459	46.5170	.0088	12.5350
14.0	2.4188	1.4161	1.04	.4375	2.2858	1.9900	.6680	3.5248	3.7180	18.5548	29.1557	40.6179	.0102	11.5493
14.0	2.4188	1.4161	1.04	.4375	2.2858	2.0400	.6171	3.7783	3.9474	16.8303	28.1705	34.7189	.0119	10.5628
14.0	2.4188	1.4161	1.04	.4375	2.2858	2.0900	.5573	4.0657	4.2078	14.9313	26.1272	28.8199	.0140	9.5750
14.0	2.4188	1.4161	1.04	.4375	2.2858	2.1400	.4856	4.3965	4.5082	12.7836	25.5253	22.9208	.0163	8.5848
14.0	2.4188	1.4161	1.04	.4375	2.2858	2.1900	.3957	4.7851	4.8625	10.2418	24.6834	17.0218	.0186	7.5897
14.0	2.4188	1.4161	1.04	.4375	2.2858	2.2400	.2722	5.2556	5.2942	6.9288	25.6455	11.1227	.0200	6.5822
14.0	2.4188	1.4161	1.08	.4631	2.1594	.4700	.1077	.4376	.4489	12.9029	86.6826	217.8162	.0006	45.0724
14.0	2.4188	1.4161	1.08	.4631	2.1594	.5200	.3046	.4897	.5676	30.3582	80.4354	211.6903	.0006	44.0512
14.0	2.4188	1.4161	1.08	.4631	2.1594	.5700	.4110	.5432	.6697	35.7949	76.6372	205.5644	.0007	43.0300
14.0	2.4188	1.4161	1.08	.4631	2.1594	.6200	.4900	.5980	.7622	38.3208	73.9880	199.4384	.0007	42.0088
14.0	2.4188	1.4161	1.08	.4631	2.1594	.6700	.5534	.6542	.8485	39.5574	71.5363	193.3125	.0008	40.9876
14.0	2.4188	1.4161	1.08	.4631	2.1594	.7200	.6062	.7119	.9306	40.0951	69.3388	187.1866	.0008	39.9663
14.0	2.4188	1.4161	1.08	.4631	2.1594	.7700	.6509	.7713	1.0099	40.2079	67.3202	181.0606	.0008	38.9451
14.0	2.4188	1.4161	1.08	.4631	2.1594	.8200	.6891	.8323	1.0872	40.0417	65.4352	174.9347	.0009	37.9238
14.0	2.4188	1.4161	1.08	.4631	2.1594	.8700	.7218	.8952	1.1632	39.6815	63.6538	168.8088	.0009	36.9025
14.0	2.4188	1.4161	1.08	.4631	2.1594	.9200	.7498	.9601	1.2385	39.1802	61.9553	162.6828	.0010	35.8812
14.0	2.4188	1.4161	1.08	.4631	2.1594	.9700	.7736	1.0270	1.3135	38.5719	60.3241	156.5569	.0011	34.8599
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.0200	.7935	1.0961	1.3887	37.8797	58.7486	150.4310	.0011	33.8385
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.0700	.8098	1.1676	1.4643	37.1196	57.2198	144.3050	.0012	32.8171
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.1200	.8228	1.2416	1.5406	36.3025	55.7298	138.1791	.0013	31.7957
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.1700	.8326	1.3184	1.6181	35.4362	54.2731	132.0532	.0014	30.7742
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.2200	.8393	1.3981	1.6970	34.5260	52.8446	125.9272	.0015	29.7527
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.2700	.8430	1.4811	1.7776	33.5753	51.4402	119.8013	.0016	28.7311
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.3200	.8437	1.5675	1.8603	32.5862	50.0563	113.6754	.0017	27.7094
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.3700	.8415	1.6577	1.9455	31.5595	48.6902	107.5494	.0019	26.6877
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.4200	.8363	1.7521	2.0334	30.4951	47.3395	101.4235	.0020	25.6659
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.4700	.8280	1.8510	2.1245	29.3919	46.0025	95.2976	.0022	24.6440
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.5200	.8166	1.9549	2.2192	28.2477	44.6781	89.1716	.0024	23.6219
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.5700	.8020	2.0644	2.3182	27.0594	43.3662	83.0457	.0026	22.5998
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.6200	.7839	2.1800	2.4219	25.8225	42.0675	76.9198	.0028	21.5774
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.6700	.7622	2.3025	2.5310	24.5313	40.7845	70.7938	.0031	20.5547
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.7200	.7364	2.4328	2.6464	23.1778	39.5221	64.6679	.0034	19.5318
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.7700	.7062	2.5718	2.7689	21.7516	38.2894	58.5420	.0037	18.5085
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.8200	.6710	2.7208	2.8998	20.2383	37.1022	52.4160	.0040	17.4846
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.8700	.6300	2.8812	3.0403	18.6180	35.9890	46.2901	.0044	16.4599
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.9200	.5819	3.0550	3.1922	16.8612	35.0038	40.1642	.0048	15.4341
14.0	2.4188	1.4161	1.08	.4631	2.1594	1.9700	.5250	3.2444	3.3576	14.9220	34.2554	34.0382	.0051	14.4067
14.0	2.4188	1.4161	1.08	.4631	2.1594	2.0200	.4560	3.4525	3.5393	12.7213	33.9945	27.9123	.0055	13.3763
14.0	2.4188	1.4161	1.08	.4631	2.1594	2.0700	.3687	3.6834	3.7415	10.1000	34.4310	21.7864	.0057	12.3408
14.0	2.4188	1.4161	1.08	.4631	2.1594	2.1200	.2458	3.9433	3.9697	6.6128	40.1767	15.6604	.0055	11.2940
14.0	2.4188	1.4161	1.12	.4906	2.0382	.5000	.1197	.4668	.4800	13.4596	86.1659	211.8718	.0006	48.2054
14.0	2.4188	1.4161	1.12	.4906	2.0382	.5500	.2964	.5193	.5898	28.3186	80.3094	205.5120	.0006	47.1463
14.0	2.4188	1.4161	1.12	.4906	2.0382	.6000	.3954	.5729	.6862	33.3864	76.1977	199.1662	.0007	46.0872
14.0	2.4188	1.4161	1.12	.4906	2.0382	.6500	.4689	.6279	.7743	35.8070	74.0026	192.8133	.0007	45.0280
14.0	2.4188	1.4161	1.12	.4906	2.0382	.7000	.5276	.6843	.8570	37.0081	71.5938	186.4605	.0007	43.9688
14.0	2.4188	1.4161	1.12	.4906	2.0382	.7500	.5761	.7422	.9359	37.5510	69.4343	180.1077	.0008	42.9096
14.0	2.4188	1.4161	1.12	.4906	2.0382	.8000	.6168	.8016	1.0123	37.6332	67.4515	173.7549	.0008	41.8504
14.0	2.4188	1.4161	1.12	.4906	2.0382	.8500	.6512	.8627	1.0868	37.4546	65.6017	167.4021	.0009	40.7911
14.0	2.4188	1.4161	1.12	.4906	2.0382	.9000	.6801	.9256	1.1601	37.0775	63.8561	161.0493	.0009	39.7318
14.0	2.4188	1.4161	1.12	.4906	2.0382	.9500	.7043	.9903	1.2328	36.5436	62.1944	154.6964	.0010	38.6724
14.0	2.4188	1.4161	1.12	.4906	2.0382	1.0000	.7243	1.0570	1.3051	35.9167	60.6022	148.3436	.0010	37.6130
14.0	2.4188	1.4161	1.12	.4906	2.0382	1.0500	.7404	1.1258	1.3776	35.1896	59.0684	141.9908	.0011	36.5536
14.0	2.4188	1.4161	1.12	.4906	2.0382	1.1000	.7528	1.1969	1.4504	34.3577	57.5846	135.6380	.0011	35.4941
14.0	2.4188	1.4161	1.12	.4906	2.0382	1.1500	.7618	1.2704	1.5239	33.5219	56.1445	129.2852	.0012	34.4345
14.0	2.4188	1.4161	1.12	.4906	2.0382	1.2000	.7674	1.3465	1.5983	32.5794	54.7430	122.9323	.0013	33.3744

14.0	2.4188	1.4161	1.24	.5904	1.6936	1.2000	.5455	1.2997	1.4277	24.4470	60.7013	106.5965	.0009	43.9109
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.2500	.5377	1.3723	1.5039	23.2773	59.1523	99.5630	.0009	42.7357
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.3000	.5252	1.4473	1.5809	21.9969	58.5472	92.5296	.0009	41.5602
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.3500	.5074	1.5247	1.6588	20.5986	58.3198	85.4961	.0009	40.3841
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.4000	.4839	1.6047	1.6978	19.0681	57.4247	78.4626	.0009	39.2073
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.4500	.4539	1.6875	1.7683	17.3808	57.6516	71.4291	.0009	38.0296
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.5000	.4159	1.7734	1.8403	15.4952	58.2564	64.3956	.0010	36.8507
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.5500	.3675	1.8626	1.9142	13.3568	59.4340	57.3622	.0010	35.6702
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.6000	.3039	1.9554	1.9903	10.7535	62.0281	50.3287	.0009	34.4873
14.0	2.4188	1.4161	1.24	.5904	1.6936	1.6500	.2121	2.0521	2.0690	7.3248	67.2941	43.2952	.0009	33.3011
14.0	2.4188	1.4161	1.28	.6331	1.5796	.6400	.0805	.6056	.6104	7.1719	86.5227	182.4673	.0006	61.2962
14.0	2.4188	1.4161	1.28	.6331	1.5796	.6900	.2243	.6595	.6935	18.0304	81.1932	175.2070	.0006	60.0850
14.0	2.4188	1.4161	1.28	.6331	1.5796	.7400	.2986	.7145	.7705	21.9761	77.5423	167.9466	.0006	58.8736
14.0	2.4188	1.4161	1.28	.6331	1.5796	.7900	.3508	.7708	.8433	23.9413	75.4143	160.6862	.0006	57.6622
14.0	2.4188	1.4161	1.28	.6331	1.5796	.8400	.3897	.8283	.9131	24.8907	73.2862	153.4259	.0006	56.4506
14.0	2.4188	1.4161	1.28	.6331	1.5796	.8900	.4193	.8872	.9807	25.2248	71.4295	146.1655	.0007	55.2389
14.0	2.4188	1.4161	1.28	.6331	1.5796	.9400	.4412	.9474	1.0466	25.1454	69.7802	138.9051	.0007	54.0270
14.0	2.4188	1.4161	1.28	.6331	1.5796	.9900	.4567	1.0092	1.1115	24.7663	68.3041	131.6448	.0007	52.8149
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.0400	.4664	1.0726	1.1755	24.1554	66.9840	124.3844	.0007	51.6026
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.0900	.4707	1.1376	1.2391	23.3544	65.8146	117.1240	.0007	50.3899
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.1400	.4696	1.2044	1.3025	22.3877	64.8009	109.8637	.0007	49.1770
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.1900	.4632	1.2730	1.3660	21.2679	63.9590	102.6033	.0008	47.9636
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.2400	.4513	1.3436	1.4298	19.9971	63.3193	95.3430	.0008	46.7497
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.2900	.4333	1.4163	1.4940	18.5675	62.9325	88.0826	.0008	45.5352
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.3400	.4086	1.4912	1.5590	16.9588	62.8837	80.8222	.0008	44.3199
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.3900	.3759	1.5685	1.6249	15.1315	63.0193	73.5619	.0008	43.1036
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.4400	.3327	1.6484	1.6918	13.0105	64.5123	66.3015	.0008	41.8859
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.4900	.2744	1.7310	1.7601	10.4356	67.0467	59.0411	.0008	40.6664
14.0	2.4188	1.4161	1.28	.6331	1.5796	1.5400	.1875	1.8166	1.8300	6.9410	72.5923	51.7808	.0008	39.4441
14.0	2.4188	1.4161	1.32	.6843	1.4613	.6900	.0661	.6567	.6597	5.4706	87.3268	172.0759	.0006	64.4355
14.0	2.4188	1.4161	1.32	.6843	1.4613	.7400	.1997	.7112	.7367	15.1050	81.6771	164.5887	.0006	63.1860
14.0	2.4188	1.4161	1.32	.6843	1.4613	.7900	.2654	.7669	.8090	18.5695	78.5925	157.1014	.0006	61.9364
14.0	2.4188	1.4161	1.32	.6843	1.4613	.8400	.3098	.8238	.8781	20.2458	76.2415	149.6142	.0006	60.6867
14.0	2.4188	1.4161	1.32	.6843	1.4613	.8900	.3414	.8820	.9446	20.9873	74.3087	142.1269	.0006	59.4367
14.0	2.4188	1.4161	1.32	.6843	1.4613	.9400	.3635	.9415	1.0094	21.1432	72.6743	134.6397	.0006	58.1865
14.0	2.4188	1.4161	1.32	.6843	1.4613	.9900	.3778	1.0024	1.0729	20.8902	71.2846	127.1524	.0006	56.9360
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.0400	.3852	1.0648	1.1355	20.3261	70.1189	119.6652	.0006	55.6852
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.0900	.3861	1.1287	1.1975	19.5063	69.1784	112.1779	.0007	54.4340
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.1400	.3805	1.1943	1.2591	18.4593	68.4853	104.6907	.0007	53.1823
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.1900	.3682	1.2616	1.3206	17.1930	68.0866	97.2034	.0007	51.9301
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.2400	.3484	1.3308	1.3823	15.6951	68.0672	89.7162	.0007	50.6771
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.2900	.3199	1.4019	1.4444	13.9262	68.5789	82.2289	.0007	49.4232
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.3400	.2799	1.4751	1.5069	11.7972	69.6130	74.7417	.0007	48.1681
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.3900	.2224	1.5505	1.5702	9.0918	72.1264	67.2544	.0007	46.9114
14.0	2.4188	1.4161	1.32	.6843	1.4613	1.4400	.1258	1.6283	1.6345	4.9915	79.2954	59.7672	.0006	45.6524
14.0	2.4188	1.4161	1.36	.7510	1.3315	.7600	.0714	.7301	.7334	5.3642	86.6917	158.1451	.0005	67.1330
14.0	2.4188	1.4161	1.36	.7510	1.3315	.8100	.1747	.7858	.8038	12.1709	82.1319	150.4310	.0006	65.8451
14.0	2.4188	1.4161	1.36	.7510	1.3315	.8600	.2256	.8425	.8711	14.7085	79.4668	142.7168	.0006	64.5570
14.0	2.4188	1.4161	1.36	.7510	1.3315	.9100	.2577	.9006	.9360	15.8141	77.5158	135.0027	.0006	63.2686
14.0	2.4188	1.4161	1.36	.7510	1.3315	.9600	.2774	.9599	.9991	16.1148	76.1206	127.2886	.0006	61.9798
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.0100	.2871	1.0205	1.0610	15.8707	74.9988	119.5744	.0006	60.6907
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.0600	.2881	1.0826	1.1219	15.2068	74.1394	111.8603	.0006	59.4011
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.1100	.2804	1.1462	1.1822	14.1776	73.7833	104.1461	.0006	58.1109
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.1600	.2632	1.2113	1.2421	12.7360	73.9349	96.4320	.0006	56.8200
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.2100	.2346	1.2782	1.3020	10.9730	74.6105	88.7179	.0006	55.5282
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.2600	.1894	1.3468	1.3619	8.5491	76.9028	81.0037	.0006	54.2353
14.0	2.4188	1.4161	1.36	.7510	1.3315	1.3100	.1088	1.4172	1.4221	4.7475	81.6969	73.2896	.0006	52.9408
14.0	2.4188	1.4161	1.40	.8593	1.1637	.8600	.0145	.8385	.8386	.2690	89.6763	138.8144	.0005	69.0768
14.0	2.4188	1.4161	1.40	.8593	1.1637	.9100	.1129	.8959	.9027	7.0735	84.3149	130.8734	.0005	67.7499
14.0	2.4188	1.4161	1.40	.8593	1.1637	.9600	.1426	.9545	.9649	8.4466	82.5099	122.9323	.0005	66.4227
14.0	2.4188	1.4161	1.40	.8593	1.1637	1.0100	.1514	1.0144	1.0257	8.5275	81.6699	114.9913	.0005	65.0949
14.0	2.4188	1.4161	1.40	.8593	1.1637	1.0600	.1435	1.0756	1.0854	7.7101	81.7048	107.0503	.0005	63.7664
14.0	2.4188	1.4161	1.40	.8593	1.1637	1.1100	.1154	1.1383	1.1444	5.9348	82.5573	99.1093	.0005	62.4372
14.0	2.4188	1.4161	1.40	.8593	1.1637	1.1600	.0333	1.2024	1.2029	1.6456	87.2417	91.1682	.0005	61.1070

APPENDIX H

PROPERTIES OF AN OBLIQUE DETONATION WAVE

GAMMA = 1.3

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.5	1.3909	1.0549	1.00	.7190	1.3909	.7200	.0197	.6953	.6956	1.5633	88.3223	2.4109	.9263	1.2470
1.5	1.3909	1.0549	1.00	.7190	1.3909	.7500	.1040	.7271	.7341	7.8953	80.7820	2.3478	.9325	1.2375
1.5	1.3909	1.0549	1.00	.7190	1.3909	.7800	.1408	.7591	.7714	10.2348	77.6180	2.2847	.9385	1.2279
1.5	1.3909	1.0549	1.00	.7190	1.3909	.8100	.1657	.7914	.8078	11.5633	74.6765	2.2216	.9444	1.2182
1.5	1.3909	1.0549	1.00	.7190	1.3909	.8400	.1837	.8240	.8435	12.3362	71.5580	2.1585	.9500	1.2085
1.5	1.3909	1.0549	1.00	.7190	1.3909	.8700	.1968	.8570	.8786	12.7442	69.3058	2.0954	.9554	1.1987
1.5	1.3909	1.0549	1.00	.7190	1.3909	.9000	.2060	.8902	.9132	12.8898	67.2390	2.0323	.9606	1.1888
1.5	1.3909	1.0549	1.00	.7190	1.3909	.9300	.2119	.9238	.9474	12.8353	65.3095	1.9692	.9655	1.1788
1.5	1.3909	1.0549	1.00	.7190	1.3909	.9600	.2150	.9577	.9814	12.6218	63.4858	1.9062	.9702	1.1687
1.5	1.3909	1.0549	1.00	.7190	1.3909	.9900	.2154	.9920	1.0152	12.2774	61.7456	1.8431	.9745	1.1584
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.0200	.2135	1.0266	1.0489	11.8224	60.0729	1.7800	.9786	1.1480
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.0500	.2093	1.0617	1.0826	11.2714	58.4551	1.7169	.9823	1.1375
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.0800	.2028	1.0972	1.1164	10.6352	56.8825	1.6538	.9857	1.1268
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.1100	.1942	1.1332	1.1504	9.9216	55.3470	1.5907	.9887	1.1160
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.1400	.1833	1.1696	1.1846	9.1365	53.8420	1.5276	.9914	1.1049
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.1700	.1703	1.2066	1.2193	8.2837	52.3619	1.4645	.9937	1.0936
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.2000	.1551	1.2441	1.2544	7.3658	50.9016	1.4014	.9957	1.0821
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.2300	.1376	1.2822	1.2902	6.3843	49.4567	1.3383	.9972	1.0703
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.2600	.1178	1.3210	1.3268	5.3393	48.0232	1.2753	.9984	1.0581
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.2900	.0954	1.3605	1.3642	4.2303	46.5972	1.2122	.9992	1.0456
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.3200	.0705	1.4009	1.4028	3.0555	45.1752	1.1491	.9997	1.0327
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.3500	.0427	1.4421	1.4428	1.8121	43.7537	1.0860	.9999	1.0192
1.5	1.3909	1.0549	1.00	.7190	1.3909	1.3800	.0120	1.4844	1.4844	.4964	42.3290	1.0229	1.0000	1.0052
1.5	1.3909	1.0549	1.04	.8443	1.1844	.8500	.0304	.8329	.8334	2.0464	86.6177	2.0660	.9003	1.3101
1.5	1.3909	1.0549	1.04	.8443	1.1844	.8800	.0714	.8658	.8686	4.6393	81.6051	2.0004	.9029	1.2996
1.5	1.3909	1.0549	1.04	.8443	1.1844	.9100	.0903	.8990	.9034	5.6682	78.7455	1.9348	.9051	1.2888
1.5	1.3909	1.0549	1.04	.8443	1.1844	.9400	.1008	.9326	.9379	6.1217	76.6211	1.8691	.9071	1.2780
1.5	1.3909	1.0549	1.04	.8443	1.1844	.9700	.1058	.9665	.9723	6.2252	74.9637	1.8035	.9087	1.2670
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.0000	.1065	1.0009	1.0065	6.0779	73.6895	1.7379	.9099	1.2558
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.0300	.1034	1.0356	1.0408	5.7325	72.7930	1.6723	.9107	1.2444
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.0600	.0968	1.0707	1.0752	5.2178	72.3312	1.6067	.9112	1.2329
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.0900	.0866	1.1064	1.1098	4.5448	72.4454	1.5411	.9112	1.2210
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.1200	.0725	1.1425	1.1449	3.7035	73.4449	1.4755	.9108	1.2090
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.1500	.0529	1.1791	1.1804	2.6332	76.1104	1.4099	.9101	1.1966
1.5	1.3909	1.0549	1.04	.8443	1.1844	1.1800	.0185	1.2164	1.2165	.9006	84.2400	1.3442	.9089	1.1838

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.3

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
2.0	1.6956	1.1427	1.00	.5898	1.6956	.5900	.0139	.5631	.5633	1.3471	89.2810	4.3906	.7007	1.5275
2.0	1.6956	1.1427	1.00	.5898	1.6956	.6200	.1556	.5942	.6126	14.0902	81.7673	4.2986	.7110	1.5147
2.0	1.6956	1.1427	1.00	.5898	1.6956	.6500	.2158	.6256	.6591	18.3649	78.3392	4.2066	.7215	1.5021
2.0	1.6956	1.1427	1.00	.5898	1.6956	.6800	.2593	.6572	.7034	20.8729	75.6773	4.1146	.7320	1.4895
2.0	1.6956	1.1427	1.00	.5898	1.6956	.7100	.2937	.6891	.7458	22.4712	73.4076	4.0226	.7426	1.4768
2.0	1.6956	1.1427	1.00	.5898	1.6956	.7400	.3219	.7214	.7867	23.5068	71.3851	3.9306	.7533	1.4641
2.0	1.6956	1.1427	1.00	.5898	1.6956	.7700	.3454	.7539	.8263	24.1602	69.5355	3.8386	.7641	1.4514
2.0	1.6956	1.1427	1.00	.5898	1.6956	.8000	.3652	.7867	.8648	24.5376	67.8145	3.7466	.7749	1.4386
2.0	1.6956	1.1427	1.00	.5898	1.6956	.8300	.3819	.8199	.9025	24.7073	66.1935	3.6546	.7857	1.4258
2.0	1.6956	1.1427	1.00	.5898	1.6956	.8600	.3958	.8534	.9394	24.7152	64.6522	3.5626	.7965	1.4129
2.0	1.6956	1.1427	1.00	.5898	1.6956	.8900	.4074	.8872	.9757	24.5935	63.1761	3.4706	.8074	1.4001
2.0	1.6956	1.1427	1.00	.5898	1.6956	.9200	.4167	.9214	1.0115	24.3657	61.7539	3.3786	.8183	1.3871
2.0	1.6956	1.1427	1.00	.5898	1.6956	.9500	.4239	.9559	1.0468	24.0491	60.3772	3.2865	.8291	1.3741
2.0	1.6956	1.1427	1.00	.5898	1.6956	.9800	.4293	.9908	1.0817	23.6568	59.0387	3.1945	.8399	1.3611
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.0100	.4329	1.0261	1.1164	23.1986	57.7328	3.1025	.8506	1.3480
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.0400	.4347	1.0618	1.1508	22.6824	56.4547	3.0105	.8612	1.3348
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.0700	.4348	1.0978	1.1850	22.1140	55.2003	2.9185	.8717	1.3216
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.1000	.4333	1.1344	1.2192	21.4980	53.9660	2.8265	.8821	1.3083
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.1300	.4301	1.1713	1.2533	20.8378	52.7487	2.7345	.8923	1.2949
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.1600	.4253	1.2087	1.2874	20.1360	51.5456	2.6425	.9023	1.2814
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.1900	.4189	1.2466	1.3216	19.3945	50.3541	2.5505	.9120	1.2678
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.2200	.4109	1.2850	1.3559	18.6145	49.1719	2.4585	.9215	1.2541
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.2500	.4012	1.3239	1.3904	17.7966	47.9968	2.3665	.9307	1.2403
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.2800	.3899	1.3634	1.4252	16.9409	46.8268	2.2745	.9395	1.2263
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.3100	.3768	1.4034	1.4603	16.0471	45.6598	2.1825	.9479	1.2122
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.3400	.3619	1.4441	1.4959	15.1144	44.4939	2.0905	.9558	1.1979
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.3700	.3452	1.4855	1.5319	14.1413	43.3272	1.9985	.9633	1.1834
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.4000	.3265	1.5275	1.5685	13.1262	42.1577	1.9065	.9701	1.1687
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.4300	.3057	1.5703	1.6058	12.0667	40.9834	1.8145	.9764	1.1537
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.4600	.2827	1.6140	1.6440	10.9598	39.8023	1.7225	.9820	1.1385
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.4900	.2574	1.6586	1.6832	9.8018	38.6122	1.6305	.9869	1.1228
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.5200	.2296	1.7042	1.7235	8.5884	37.4107	1.5385	.9910	1.1068
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.5500	.1989	1.7509	1.7653	7.3141	36.1954	1.4465	.9943	1.0903
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.5800	.1653	1.7989	1.8087	5.9723	34.9635	1.3545	.9968	1.0733
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.6100	.1283	1.8484	1.8542	4.5551	33.7120	1.2625	.9986	1.0556
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.6400	.0875	1.8995	1.9022	3.0526	32.4372	1.1705	.9996	1.0371
2.0	1.6956	1.1427	1.00	.5898	1.6956	1.6700	.0423	1.9527	1.9533	1.4527	31.1352	1.0785	1.0000	1.0176
2.0	1.6956	1.1427	1.04	.6435	1.5539	.6500	.0655	.6237	.6269	5.7555	86.2984	4.1268	.6901	1.6342
2.0	1.6956	1.1427	1.04	.6435	1.5539	.6800	.1524	.6552	.6714	12.6284	81.1870	4.0312	.6983	1.6209
2.0	1.6956	1.1427	1.04	.6435	1.5539	.7100	.2012	.6869	.7140	15.8244	78.6723	3.9355	.7066	1.6076
2.0	1.6956	1.1427	1.04	.6435	1.5539	.7400	.2370	.7189	.7549	17.7573	76.5952	3.8398	.7148	1.5943
2.0	1.6956	1.1427	1.04	.6435	1.5539	.7700	.2650	.7513	.7945	18.9898	74.4669	3.7441	.7229	1.5809
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8000	.2875	.7839	.8330	19.7691	72.5663	3.6484	.7310	1.5674
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8300	.3059	.8168	.8705	20.2297	70.8296	3.5527	.7390	1.5539
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8600	.3207	.8500	.9072	20.4535	69.2181	3.4571	.7469	1.5404
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8900	.3327	.8836	.9433	20.4941	67.7066	3.3614	.7547	1.5268
2.0	1.6956	1.1427	1.04	.6435	1.5539	.9200	.3419	.9175	.9788	20.3886	66.2776	3.2657	.7623	1.5131
2.0	1.6956	1.1427	1.04	.6435	1.5539	.9500	.3488	.9517	1.0139	20.1631	64.9187	3.1700	.7698	1.4994
2.0	1.6956	1.1427	1.04	.6435	1.5539	.9800	.3535	.9863	1.0486	19.8370	63.6210	3.0743	.7772	1.4856
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.0100	.3562	1.0213	1.0830	19.4246	62.3780	2.9786	.7843	1.4717
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.0400	.3568	1.0567	1.1172	18.9366	61.1851	2.8830	.7912	1.4577
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.0700	.3556	1.0925	1.1512	18.3812	59.0393	2.7873	.7978	1.4436
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1000	.3524	1.1287	1.1852	17.7645	57.9391	2.6916	.8041	1.4294
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1300	.3474	1.1653	1.2191	17.0911	56.8844	2.5959	.8101	1.4151
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1600	.3406	1.2024	1.2531	16.3642	55.8769	2.5002	.8157	1.4006
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1900	.3319	1.2399	1.2873	15.5861	54.9199	2.4045	.8209	1.3860
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.2200	.3214	1.2780	1.3216	14.7580	54.0193	2.3089	.8257	1.3713
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.2500	.3089	1.3167	1.3563	13.8803	53.1839	2.2132	.8300	1.3565
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.2800	.2944	1.3559	1.3913	12.9525	52.4274	2.1175	.8337	1.3412
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.3100	.2778	1.3957	1.4267	11.9733	51.7701	2.0218	.8369	1.3258
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.3400	.2590	1.4361	1.4627	10.9403	51.2432	1.9261	.8394	1.3101
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.3700	.2379	1.4773	1.4994	9.8501	50.8954	1.8304	.8413	1.2941
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4000	.2142	1.5193	1.5370	8.6974	50.6069	1.7347	.8424	1.2778
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4300	.1876	1.5621	1.5755	7.4742	51.1180	1.6391	.8428	1.2610
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4600	.1578	1.6059	1.6153	6.1678	52.6978	1.5434	.8424	1.2438
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4900	.1239	1.6508	1.6565	4.7531	54.3385	1.4477	.8412	1.2260
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.5200	.0840	1.6969	1.6995	3.1638	59.5040	1.3520	.8391	1.2075
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.5500	.0256	1.7444	1.7446	.9469	77.1880	1.2563	.8363	1.1881

2.0	1.6956	1.1427	1.04	.6435	1.5539	.6500	.0655	.6237	.6269	5.7555	86.2984	4.1268	.6901	1.6342
2.0	1.6956	1.1427	1.04	.6435	1.5539	.6800	.1524	.6552	.6714	12.6284	81.1870	4.0312	.6983	1.6209
2.0	1.6956	1.1427	1.04	.6435	1.5539	.7100	.2012	.6869	.7140	15.8244	78.0723	3.9355	.7066	1.6076
2.0	1.6956	1.1427	1.04	.6435	1.5539	.7400	.2370	.7189	.7549	17.7573	75.5952	3.8398	.7148	1.5943
2.0	1.6956	1.1427	1.04	.6435	1.5539	.7700	.2650	.7513	.7945	18.9898	73.4669	3.7441	.7229	1.5809
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8000	.2875	.7839	.8330	19.7691	71.5663	3.6484	.7310	1.5674
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8300	.3059	.8168	.8705	20.2297	69.8296	3.5527	.7390	1.5539
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8600	.3207	.8500	.9072	20.4535	68.2181	3.4571	.7469	1.5404
2.0	1.6956	1.1427	1.04	.6435	1.5539	.8900	.3327	.8836	.9433	20.4941	66.7066	3.3614	.7547	1.5268
2.0	1.6956	1.1427	1.04	.6435	1.5539	.9200	.3419	.9175	.9788	20.3886	65.2776	3.2657	.7623	1.5131
2.0	1.6956	1.1427	1.04	.6435	1.5539	.9500	.3488	.9517	1.0139	20.1631	63.9187	3.1700	.7698	1.4994
2.0	1.6956	1.1427	1.04	.6435	1.5539	.9800	.3535	.9863	1.0486	19.8370	62.6210	3.0743	.7772	1.4856
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.0100	.3562	1.0213	1.0830	19.4246	61.3780	2.9786	.7843	1.4717
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.0400	.3568	1.0567	1.1172	18.9366	60.1851	2.8830	.7912	1.4577
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.0700	.3556	1.0925	1.1512	18.3812	59.0393	2.7873	.7978	1.4436
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1000	.3524	1.1287	1.1852	17.7645	57.9391	2.6916	.8041	1.4294
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1300	.3474	1.1653	1.2191	17.0911	56.8844	2.5959	.8101	1.4151
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1600	.3406	1.2024	1.2531	16.3642	55.8769	2.5002	.8157	1.4006
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.1900	.3319	1.2399	1.2873	15.5861	54.9199	2.4045	.8209	1.3860
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.2200	.3214	1.2780	1.3216	14.7580	54.0193	2.3089	.8257	1.3713
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.2500	.3089	1.3167	1.3563	13.8803	53.1839	2.2132	.8300	1.3563
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.2800	.2944	1.3559	1.3913	12.9525	52.4274	2.1175	.8337	1.3412
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.3100	.2778	1.3957	1.4267	11.9733	51.7701	2.0218	.8369	1.3258
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.3400	.2590	1.4361	1.4627	10.9403	51.2432	1.9261	.8394	1.3101
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.3700	.2379	1.4773	1.4994	9.8501	50.8954	1.8304	.8413	1.2941
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4000	.2142	1.5193	1.5370	8.6974	50.8069	1.7347	.8424	1.2778
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4300	.1876	1.5621	1.5755	7.4742	51.1180	1.6391	.8428	1.2610
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4600	.1578	1.6059	1.6153	6.1678	52.0978	1.5434	.8424	1.2438
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.4900	.1239	1.6508	1.6565	4.7531	54.3385	1.4477	.8412	1.2260
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.5200	.0840	1.6969	1.6995	3.1638	59.5040	1.3520	.8391	1.2075
2.0	1.6956	1.1427	1.04	.6435	1.5539	1.5500	.0256	1.7444	1.7446	.9469	77.1880	1.2563	.8363	1.1881
2.0	1.6956	1.1427	1.08	.7124	1.4036	.7200	.0607	.6955	.6980	4.8203	86.1894	3.8153	.6757	1.7392
2.0	1.6956	1.1427	1.08	.7124	1.4036	.7500	.1317	.7274	.7386	9.9565	81.5060	3.7159	.6816	1.7251
2.0	1.6956	1.1427	1.08	.7124	1.4036	.7800	.1715	.7596	.7778	12.4020	78.6120	3.6165	.6874	1.7110
2.0	1.6956	1.1427	1.08	.7124	1.4036	.8100	.1999	.7921	.8159	13.8638	76.3241	3.5172	.6931	1.6968
2.0	1.6956	1.1427	1.08	.7124	1.4036	.8400	.2213	.8250	.8531	14.7617	74.3782	3.4178	.6986	1.6826
2.0	1.6956	1.1427	1.08	.7124	1.4036	.8700	.2377	.8581	.8895	15.2836	72.6635	3.3184	.7039	1.6682
2.0	1.6956	1.1427	1.08	.7124	1.4036	.9000	.2502	.8915	.9253	15.5335	71.1221	3.2191	.7089	1.6538
2.0	1.6956	1.1427	1.08	.7124	1.4036	.9300	.2592	.9253	.9606	15.5756	69.7206	3.1197	.7138	1.6393
2.0	1.6956	1.1427	1.08	.7124	1.4036	.9600	.2654	.9594	.9954	15.4522	68.4389	3.0203	.7183	1.6248
2.0	1.6956	1.1427	1.08	.7124	1.4036	.9900	.2688	.9939	1.0299	15.1925	67.2650	2.9210	.7226	1.6101
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.0200	.2698	1.0288	1.0642	14.8173	66.1931	2.8216	.7265	1.5953
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.0500	.2685	1.0640	1.0982	14.3415	65.2222	2.7223	.7301	1.5803
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.0800	.2648	1.0997	1.1323	13.7757	64.3563	2.6229	.7333	1.5652
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.1100	.2589	1.1358	1.1662	13.1274	63.6042	2.5235	.7360	1.5500
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.1400	.2507	1.1723	1.2003	12.4013	62.9812	2.4242	.7384	1.5346
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.1700	.2402	1.2093	1.2345	11.5999	62.5113	2.3248	.7402	1.5190
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.2000	.2272	1.2469	1.2690	10.7232	62.2309	2.2255	.7415	1.5031
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.2300	.2118	1.2849	1.3038	9.7685	62.1960	2.1261	.7422	1.4871
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.2600	.1935	1.3236	1.3391	8.7294	62.4953	2.0267	.7423	1.4707
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.2900	.1720	1.3629	1.3749	7.5933	63.2765	1.9273	.7417	1.4540
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.3200	.1466	1.4028	1.4114	6.3356	64.6085	1.8280	.7405	1.4369
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.3500	.1158	1.4435	1.4488	4.9008	67.6525	1.7286	.7385	1.4193
2.0	1.6956	1.1427	1.08	.7124	1.4036	1.3800	.0751	1.4851	1.4873	3.1148	73.3798	1.6293	.7357	1.4013
2.0	1.6956	1.1427	1.12	.8180	1.2225	.8200	.0233	.8006	.8009	1.6302	88.2911	3.3835	.6573	1.8309
2.0	1.6956	1.1427	1.12	.8180	1.2225	.8500	.0893	.8333	.8379	5.9950	83.2322	3.2804	.6605	1.8158
2.0	1.6956	1.1427	1.12	.8180	1.2225	.8800	.1182	.8664	.8741	7.6514	80.7031	3.1774	.6634	1.8007
2.0	1.6956	1.1427	1.12	.8180	1.2225	.9100	.1364	.8997	.9098	8.5251	78.8516	3.0743	.6660	1.7854
2.0	1.6956	1.1427	1.12	.8180	1.2225	.9400	.1480	.9334	.9449	8.9472	77.4017	2.9713	.6683	1.7700
2.0	1.6956	1.1427	1.12	.8180	1.2225	.9700	.1546	.9674	.9797	9.0573	76.2556	2.8682	.6702	1.7545
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.0000	.1571	1.0019	1.0141	8.9288	75.3772	2.7652	.6718	1.7388
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.0300	.1558	1.0366	1.0484	8.6040	74.7638	2.6621	.6729	1.7230
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.0600	.1510	1.0718	1.0827	8.1062	74.4594	2.5591	.6736	1.7069
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.0900	.1424	1.1074	1.1169	7.4446	74.4594	2.4561	.6738	1.6907
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.1200	.1299	1.1435	1.1512	6.6134	74.9273	2.3530	.6734	1.6742
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.1500	.1124	1.1800	1.1857	5.5830	76.0390	2.2500	.6726	1.6575
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.1800	.0880	1.2171	1.2205	4.2654	78.2245	2.1469	.6711	1.6405
2.0	1.6956	1.1427	1.12	.8180	1.2225	1.2100	.0485	1.2547	1.2557	2.2942	82.9537	2.0439	.6691	1.6231

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.3

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U=)	Y(M2V=)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
2.5	1.9261	1.2226	1.00	.5192	1.9261	.5200	.0308	.4937	.4946	3.3898	88.7451	6.9314	.4612	1.8689
2.5	1.9261	1.2226	1.00	.5192	1.9261	.5500	.1884	.5246	.5545	18.9046	82.2057	6.8048	.4709	1.8521
2.5	1.9261	1.2226	1.00	.5192	1.9261	.5800	.2613	.5557	.6095	24.2490	79.0159	6.6783	.4808	1.8352
2.5	1.9261	1.2226	1.00	.5192	1.9261	.6100	.3151	.5872	.6609	27.3187	76.5354	6.5517	.4910	1.8184
2.5	1.9261	1.2226	1.00	.5192	1.9261	.6400	.3586	.6189	.7094	29.2601	74.4210	6.4252	.5014	1.8015
2.5	1.9261	1.2226	1.00	.5192	1.9261	.6700	.3951	.6510	.7558	30.5285	72.5383	6.2986	.5120	1.7846
2.5	1.9261	1.2226	1.00	.5192	1.9261	.7000	.4265	.6834	.8002	31.3542	70.8185	6.1721	.5228	1.7677
2.5	1.9261	1.2226	1.00	.5192	1.9261	.7300	.4539	.7161	.8432	31.8699	69.2203	6.0455	.5339	1.7508
2.5	1.9261	1.2226	1.00	.5192	1.9261	.7600	.4778	.7492	.8849	32.1584	67.7171	5.9190	.5452	1.7338
2.5	1.9261	1.2226	1.00	.5192	1.9261	.7900	.4989	.7826	.9256	32.2747	66.2900	5.7924	.5568	1.7169
2.5	1.9261	1.2226	1.00	.5192	1.9261	.8200	.5175	.8163	.9653	32.2565	64.9256	5.6659	.5686	1.6999
2.5	1.9261	1.2226	1.00	.5192	1.9261	.8500	.5338	.8505	1.0043	32.1310	63.6134	5.5393	.5806	1.6829
2.5	1.9261	1.2226	1.00	.5192	1.9261	.8800	.5481	.8850	1.0426	31.9180	62.3454	5.4127	.5929	1.6659
2.5	1.9261	1.2226	1.00	.5192	1.9261	.9100	.5605	.9199	1.0804	31.6323	61.1151	5.2862	.6054	1.6488
2.5	1.9261	1.2226	1.00	.5192	1.9261	.9400	.5712	.9552	1.1177	31.2853	59.9173	5.1596	.6182	1.6317
2.5	1.9261	1.2226	1.00	.5192	1.9261	.9700	.5802	.9908	1.1546	30.8857	58.7476	5.0331	.6312	1.6146
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.0000	.5876	1.0270	1.1911	30.4403	57.6022	4.9065	.6444	1.5975
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.0300	.5936	1.0635	1.2274	29.9545	56.4780	4.7800	.6579	1.5804
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.0600	.5981	1.1005	1.2635	29.4325	55.3722	4.6534	.6716	1.5632
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.0900	.6012	1.1379	1.2995	28.8776	54.2823	4.5269	.6855	1.5459
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.1200	.6029	1.1758	1.3353	28.2925	53.2062	4.4003	.6996	1.5286
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.1500	.6032	1.2142	1.3711	27.6791	52.1419	4.2738	.7138	1.5113
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.1800	.6023	1.2531	1.4069	27.0392	51.0876	4.1472	.7283	1.4940
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.2100	.6000	1.2925	1.4427	26.3736	50.0415	4.0206	.7429	1.4765
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.2400	.5963	1.3325	1.4785	25.6834	49.0023	3.8941	.7576	1.4591
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.2700	.5914	1.3730	1.5145	24.9689	47.9683	3.7675	.7724	1.4415
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.3000	.5851	1.4141	1.5507	24.2303	46.9381	3.6410	.7873	1.4239
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.3300	.5774	1.4558	1.5871	23.4675	45.9105	3.5144	.8022	1.4062
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.3600	.5683	1.4981	1.6237	22.6802	44.8841	3.3879	.8172	1.3884
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.3900	.5579	1.5411	1.6606	21.8678	43.8575	3.2613	.8320	1.3706
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.4200	.5459	1.5848	1.6979	21.0295	42.8294	3.1348	.8468	1.3526
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.4500	.5325	1.6292	1.7356	20.1641	41.7985	3.0082	.8615	1.3345
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.4800	.5174	1.6744	1.7738	19.2702	40.7634	2.8817	.8759	1.3163
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.5100	.5007	1.7204	1.8125	18.3461	39.7228	2.7551	.8900	1.2979
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.5400	.4823	1.7672	1.8519	17.3897	38.6750	2.6286	.9038	1.2794
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.5700	.4620	1.8150	1.8920	16.3986	37.6186	2.5020	.9171	1.2606
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.6000	.4398	1.8638	1.9329	15.3697	36.5518	2.3754	.9298	1.2417
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.6300	.4155	1.9136	1.9748	14.2996	35.4727	2.2489	.9419	1.2224
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.6600	.3889	1.9646	2.0177	13.1839	34.3795	2.1223	.9531	1.2029
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.6900	.3598	2.0168	2.0620	12.0178	33.2697	1.9958	.9635	1.1830
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.7200	.3280	2.0705	2.1078	10.7951	32.1410	1.8692	.9727	1.1627
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.7500	.2931	2.1257	2.1553	9.5083	30.9904	1.7427	.9808	1.1418
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.7800	.2549	2.1828	2.2050	8.1485	29.8147	1.6161	.9876	1.1204
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.8100	.2128	2.2419	2.2574	6.7044	28.6100	1.4896	.9929	1.0981
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.8400	.1662	2.3036	2.3130	5.1617	27.3717	1.3630	.9966	1.0749
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.8700	.1144	2.3682	2.3727	3.5022	26.0943	1.2365	.9989	1.0505
2.5	1.9261	1.2226	1.00	.5192	1.9261	1.9000	.0565	2.4367	2.4377	1.7020	24.7710	1.1099	.9999	1.0244
2.5	1.9261	1.2226	1.04	.5575	1.7937	.5600	.0506	.5333	.5355	5.1644	87.6185	6.6682	.4556	2.0092
2.5	1.9261	1.2226	1.04	.5575	1.7937	.5900	.1802	.5644	.5901	16.9852	82.0995	6.5365	.4639	1.9916
2.5	1.9261	1.2226	1.04	.5575	1.7937	.6200	.2463	.5957	.6410	21.6649	79.0136	6.4049	.4724	1.9739
2.5	1.9261	1.2226	1.04	.5575	1.7937	.6500	.2951	.6273	.6890	24.4210	76.5978	6.2733	.4811	1.9563
2.5	1.9261	1.2226	1.04	.5575	1.7937	.6800	.3344	.6593	.7347	26.1870	74.5343	6.1417	.4899	1.9386
2.5	1.9261	1.2226	1.04	.5575	1.7937	.7100	.3672	.6915	.7785	27.3468	72.6963	6.0101	.4988	1.9210
2.5	1.9261	1.2226	1.04	.5575	1.7937	.7400	.3951	.7241	.8208	28.0994	71.0178	5.8785	.5079	1.9032
2.5	1.9261	1.2226	1.04	.5575	1.7937	.7700	.4191	.7570	.8619	28.5617	69.4594	5.7468	.5170	1.8855
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8000	.4399	.7902	.9018	28.8079	67.9953	5.6152	.5263	1.8678
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8300	.4580	.8238	.9408	28.8877	66.6076	5.4836	.5358	1.8500
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8600	.4735	.8577	.9791	28.8361	65.2831	5.3520	.5453	1.8322
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8900	.4868	.8919	1.0167	28.6780	64.0119	5.2204	.5549	1.8143

2.5	1.9261	1.2226	1.04	.5575	1.7937	.5600	.0506	.5333	.5355	5.1644	87.6185	6.6682	.4556	2.0092
2.5	1.9261	1.2226	1.04	.5575	1.7937	.5900	.1802	.5644	.5901	16.9852	82.0995	6.5365	.4639	1.9916
2.5	1.9261	1.2226	1.04	.5575	1.7937	.6200	.2463	.5957	.6410	21.6649	79.0136	6.4049	.4724	1.9739
2.5	1.9261	1.2226	1.04	.5575	1.7937	.6500	.2951	.6273	.6890	24.4210	76.5978	6.2733	.4811	1.9565
2.5	1.9261	1.2226	1.04	.5575	1.7937	.6800	.3344	.6593	.7347	26.1870	74.5343	6.1417	.4899	1.9386
2.5	1.9261	1.2226	1.04	.5575	1.7937	.7100	.3672	.6915	.7785	27.3468	72.6963	6.0101	.4988	1.9210
2.5	1.9261	1.2226	1.04	.5575	1.7937	.7400	.3951	.7241	.8208	28.0994	71.0178	5.8785	.5079	1.9032
2.5	1.9261	1.2226	1.04	.5575	1.7937	.7700	.4191	.7570	.8619	28.5617	69.4594	5.7468	.5170	1.8855
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8000	.4399	.7902	.9018	28.8079	67.9953	5.6152	.5263	1.8678
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8300	.4580	.8238	.9408	28.8877	66.6076	5.4836	.5358	1.8500
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8600	.4735	.8577	.9791	28.8361	65.2831	5.3520	.5453	1.8322
2.5	1.9261	1.2226	1.04	.5575	1.7937	.8900	.4868	.8919	1.0167	28.6780	64.0119	5.2204	.5549	1.8143
2.5	1.9261	1.2226	1.04	.5575	1.7937	.9200	.4981	.9266	1.0537	28.4320	62.7866	5.0888	.5647	1.7964
2.5	1.9261	1.2226	1.04	.5575	1.7937	.9500	.5075	.9616	1.0902	28.1119	61.6009	4.9571	.5745	1.7785
2.5	1.9261	1.2226	1.04	.5575	1.7937	.9800	.5151	.9970	1.1264	27.7285	60.4501	4.8255	.5844	1.7606
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.0100	.5211	1.0328	1.1622	27.2900	59.3303	4.6939	.5943	1.7425
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.0400	.5254	1.0691	1.1978	26.8027	58.2381	4.5623	.6043	1.7245
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.0700	.5282	1.1057	1.2331	26.2718	57.1710	4.4307	.6143	1.7064
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.1000	.5294	1.1428	1.2683	25.7009	56.1268	4.2991	.6244	1.6882
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.1300	.5292	1.1804	1.3034	25.0933	55.1037	4.1675	.6344	1.6700
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.1600	.5274	1.2184	1.3384	24.4511	54.1004	4.0358	.6444	1.6518
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.1900	.5243	1.2569	1.3735	23.7761	53.1159	3.9042	.6543	1.6334
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.2200	.5196	1.2959	1.4086	23.0694	52.1495	3.7726	.6641	1.6150
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.2500	.5135	1.3355	1.4438	22.3316	51.2011	3.6410	.6738	1.5964
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.2800	.5058	1.3756	1.4791	21.5632	50.2707	3.5094	.6833	1.5778
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.3100	.4967	1.4163	1.5146	20.7640	49.3591	3.3778	.6926	1.5591
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.3400	.4860	1.4575	1.5504	19.9335	48.4675	3.2461	.7016	1.5402
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.3700	.4736	1.4994	1.5865	19.0709	47.5980	3.1145	.7104	1.5213
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.4000	.4596	1.5420	1.6230	18.1750	46.7535	2.9829	.7187	1.5021
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.4300	.4439	1.5853	1.6599	17.2441	45.9386	2.8513	.7266	1.4828
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.4600	.4263	1.6293	1.6973	16.2760	45.1594	2.7197	.7340	1.4633
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.4900	.4067	1.6741	1.7353	15.2683	44.4251	2.5881	.7409	1.4435
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.5200	.3851	1.7197	1.7741	14.2175	43.7488	2.4564	.7470	1.4235
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.5500	.3613	1.7663	1.8137	13.1196	43.1502	2.3248	.7524	1.4032
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.5800	.3350	1.8139	1.8542	11.9696	42.6589	2.1932	.7569	1.3826
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.6100	.3060	1.8626	1.8960	10.7611	42.3224	2.0616	.7605	1.3615
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.6400	.2740	1.9125	1.9391	9.4859	42.2202	1.9300	.7630	1.3399
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.6700	.2387	1.9639	1.9838	8.1330	42.4949	1.7984	.7643	1.3177
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.7000	.1993	2.0168	2.0306	6.6858	43.4306	1.6667	.7643	1.2948
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.7300	.1549	2.0715	2.0798	5.1164	45.6858	1.5351	.7630	1.2710
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.7600	.1032	2.1284	2.1321	3.3569	51.2550	1.4035	.7602	1.2460
2.5	1.9261	1.2226	1.04	.5575	1.7937	1.7900	.0297	2.1881	2.1884	.9506	73.2445	1.2719	.7560	1.2196
2.5	1.9261	1.2226	1.08	.6014	1.6627	.6100	.0863	.5835	.5893	8.0482	86.6317	6.3459	.4501	2.1480
2.5	1.9261	1.2226	1.08	.6014	1.6627	.6400	.1800	.6148	.6386	15.7097	81.5612	6.2092	.4572	2.1296
2.5	1.9261	1.2226	1.08	.6014	1.6627	.6700	.2359	.6464	.6853	19.3979	78.7251	6.0725	.4643	2.1112
2.5	1.9261	1.2226	1.08	.6014	1.6627	.7000	.2779	.6783	.7298	21.6498	76.4550	5.9358	.4714	2.0927
2.5	1.9261	1.2226	1.08	.6014	1.6627	.7300	.3115	.7105	.7725	23.1102	74.5003	5.7992	.4786	2.0742
2.5	1.9261	1.2226	1.08	.6014	1.6627	.7600	.3394	.7431	.8138	24.0653	72.7539	5.6625	.4859	2.0557
2.5	1.9261	1.2226	1.08	.6014	1.6627	.7900	.3629	.7759	.8538	24.6701	71.1581	5.5258	.4932	2.0371
2.5	1.9261	1.2226	1.08	.6014	1.6627	.8200	.3827	.8091	.8929	25.0187	69.6780	5.3891	.5005	2.0185
2.5	1.9261	1.2226	1.08	.6014	1.6627	.8500	.3995	.8426	.9310	25.1721	68.2904	5.2524	.5078	1.9999
2.5	1.9261	1.2226	1.08	.6014	1.6627	.8800	.4136	.8764	.9684	25.1723	66.9793	5.1158	.5151	1.9812
2.5	1.9261	1.2226	1.08	.6014	1.6627	.9100	.4253	.9106	1.0051	25.0488	65.7330	4.9791	.5224	1.9625
2.5	1.9261	1.2226	1.08	.6014	1.6627	.9400	.4348	.9452	1.0414	24.8232	64.5430	4.8424	.5297	1.9437
2.5	1.9261	1.2226	1.08	.6014	1.6627	.9700	.4423	.9801	1.0772	24.5116	63.4029	4.7057	.5369	1.9249
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.0000	.4479	1.0154	1.1126	24.1262	62.3077	4.5690	.5440	1.9060
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.0300	.4516	1.0511	1.1477	23.6762	61.2540	4.4324	.5511	1.8871
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.0600	.4536	1.0872	1.1826	23.1688	60.2392	4.2957	.5581	1.8680
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.0900	.4539	1.1237	1.2173	22.6094	59.2617	4.1590	.5649	1.8489
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.1200	.4526	1.1607	1.2519	22.0022	58.3206	4.0223	.5716	1.8298
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.1500	.4495	1.1981	1.2864	21.3502	57.4162	3.8857	.5781	1.8105
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.1800	.4448	1.2360	1.3209	20.6558	56.5493	3.7490	.5844	1.7911
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.2100	.4385	1.2744	1.3555	19.9202	55.7222	3.6123	.5904	1.7716
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.2400	.4305	1.3132	1.3901	19.1442	54.9379	3.4756	.5961	1.7520
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.2700	.4207	1.3527	1.4249	18.3281	54.2013	3.3389	.6015	1.7323
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.3000	.4092	1.3926	1.4600	17.4711	53.5191	3.2023	.6065	1.7124
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.3300	.3958	1.4332	1.4953	16.5723	52.9009	3.0656	.6111	1.6923
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.3600	.3805	1.4744	1.5310	15.6297	52.3598	2.9289	.6152	1.6720
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.3900	.3631	1.5162	1.5671	14.6407	51.9143	2.7922	.6187	1.6515
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.4200	.3436	1.5588	1.6038	13.6017	51.5908	2.6555	.6216	1.6307
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.4500	.3217	1.6021	1.6411	12.5077	51.4281	2.5189	.6238	1.6096
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.4800	.2971	1.6463	1.6791	11.3522	51.4847	2.3822	.6252	1.5882
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.5100	.2697	1.6913	1.7181	10.1255	51.6536	2.2455	.6258	1.5664
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.5400	.2388	1.7374	1.7581	8.8137	52.0911	2.1088	.6255	1.5440
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.5700	.2037	1.7845	1.7995	7.3936	54.2835	1.9722	.6241	1.5211
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.6000	.1631	1.8329	1.8424	5.8203	57.2278	1.8355	.6217	1.4974
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.6300	.1133	1.8827	1.8873	3.9769	63.0978	1.6988	.6180	1.4729
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.6600	.0307	1.9343	1.9346	1.0596	80.9771	1.5621	.6131	1.4474

2.5	1.9261	1.2226	1.08	.6014	1.6627	1.6300	.1133	1.8827	1.8873	3.9769	63.0978	1.6988	.6180	1.4[illegible]
2.5	1.9261	1.2226	1.08	.6014	1.6627	1.6600	.0307	1.9343	1.9346	1.0596	80.9771	1.5621	.6131	1.4474
2.5	1.9261	1.2226	1.12	.6538	1.5294	.6600	.0661	.6339	.6371	5.7163	86.7402	6.0067	.4417	2.2909
2.5	1.9261	1.2226	1.12	.6538	1.5294	.6900	.1569	.6655	.6825	12.8128	82.0934	5.8650	.4474	2.2713
2.5	1.9261	1.2226	1.12	.6538	1.5294	.7200	.2079	.6974	.7259	16.1030	79.2990	5.7232	.4530	2.2528
2.5	1.9261	1.2226	1.12	.6538	1.5294	.7500	.2452	.7296	.7676	18.1027	77.0936	5.5815	.4586	2.2350
2.5	1.9261	1.2226	1.12	.6538	1.5294	.7800	.2745	.7621	.8080	19.3887	75.2133	5.4397	.4642	2.2178
2.5	1.9261	1.2226	1.12	.6538	1.5294	.8100	.2982	.7949	.8471	20.2134	73.5482	5.2980	.4697	2.1941
2.5	1.9261	1.2226	1.12	.6538	1.5294	.8400	.3176	.8281	.8853	20.7137	72.0405	5.1563	.4751	2.1745
2.5	1.9261	1.2226	1.12	.6538	1.5294	.8700	.3335	.8615	.9226	20.9731	70.6557	5.0145	.4805	2.1553
2.5	1.9261	1.2226	1.12	.6538	1.5294	.9000	.3463	.8953	.9593	21.0459	69.3717	4.8728	.4857	2.1353
2.5	1.9261	1.2226	1.12	.6538	1.5294	.9300	.3564	.9294	.9954	20.9695	68.1738	4.7310	.4909	2.1153
2.5	1.9261	1.2226	1.12	.6538	1.5294	.9600	.3641	.9639	1.0309	20.7707	67.0519	4.5893	.4959	2.0962
2.5	1.9261	1.2226	1.12	.6538	1.5294	.9900	.3695	.9988	1.0661	20.4686	65.9994	4.4476	.5008	2.0764
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.0200	.3728	1.0340	1.1009	20.0778	65.0120	4.3058	.5055	2.0566
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.0500	.3741	1.0696	1.1355	19.6088	64.0878	4.1641	.5100	2.0365
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.0800	.3733	1.1057	1.1699	19.0697	63.2267	4.0223	.5142	2.0165
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.1100	.3707	1.1421	1.2041	18.4661	62.4305	3.8806	.5182	1.9963
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.1400	.3661	1.1790	1.2383	17.8024	61.7031	3.7389	.5219	1.9759
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.1700	.3595	1.2163	1.2725	17.0811	61.0510	3.5971	.5253	1.9555
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.2000	.3510	1.2541	1.3067	16.3037	60.4833	3.4554	.5283	1.9349
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.2300	.3404	1.2925	1.3410	15.4702	60.0136	3.3136	.5309	1.9141
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.2600	.3277	1.3313	1.3756	14.5795	59.6606	3.1719	.5331	1.8931
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.2900	.3128	1.3707	1.4104	13.6291	59.4508	3.0301	.5348	1.8719
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.3200	.2954	1.4107	1.4456	12.6144	59.4225	2.8884	.5359	1.8504
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.3500	.2754	1.4513	1.4812	11.5286	59.6321	2.7467	.5364	1.8286
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.3800	.2523	1.4926	1.5174	10.3610	60.1662	2.6049	.5363	1.8066
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.4100	.2257	1.5347	1.5542	9.0941	61.1651	2.4632	.5354	1.7844
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.4400	.1946	1.5775	1.5918	7.6977	62.6752	2.3214	.5337	1.7619
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.4700	.1574	1.6212	1.6305	6.1101	65.7884	2.1797	.5312	1.7391
2.5	1.9261	1.2226	1.12	.6538	1.5294	1.5000	.1091	1.6659	1.6703	4.1617	71.1636	2.0380	.5277	1.7159
2.5	1.9261	1.2226	1.16	.7210	1.3870	.7300	.0689	.7059	.7091	5.3894	86.2768	5.5528	.4331	2.4244
2.5	1.9261	1.2226	1.16	.7210	1.3870	.7600	.1395	.7380	.7504	10.4024	82.2733	5.4060	.4373	2.4044
2.5	1.9261	1.2226	1.16	.7210	1.3870	.7900	.1804	.7704	.7903	12.8658	79.7547	5.2592	.4413	2.3838
2.5	1.9261	1.2226	1.16	.7210	1.3870	.8200	.2098	.8031	.8290	14.3543	77.7723	5.1124	.4452	2.3635
2.5	1.9261	1.2226	1.16	.7210	1.3870	.8500	.2322	.8361	.8667	15.2781	76.1012	4.9656	.4490	2.3431
2.5	1.9261	1.2226	1.16	.7210	1.3870	.8800	.2494	.8694	.9037	15.8236	74.6458	4.8188	.4526	2.3224
2.5	1.9261	1.2226	1.16	.7210	1.3870	.9100	.2626	.9031	.9399	16.0939	73.3568	4.6720	.4560	2.3021
2.5	1.9261	1.2226	1.16	.7210	1.3870	.9400	.2723	.9370	.9755	16.1530	72.2061	4.5252	.4593	2.2814
2.5	1.9261	1.2226	1.16	.7210	1.3870	.9700	.2789	.9714	1.0107	16.0429	71.1775	4.3784	.4623	2.2607
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.0000	.2828	1.0061	1.0455	15.7924	70.2628	4.2316	.4651	2.2394
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.0300	.2841	1.0411	1.0800	15.4217	69.4594	4.0848	.4676	2.2189
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.0600	.2829	1.0766	1.1143	14.9448	68.7696	3.9380	.4699	2.1978
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.0900	.2793	1.1124	1.1484	14.3714	68.2009	3.7912	.4718	2.1766
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.1200	.2732	1.1487	1.1824	13.7074	67.7666	3.6444	.4734	2.1552
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.1500	.2646	1.1854	1.2164	12.9555	67.4872	3.4976	.4745	2.1336
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.1800	.2533	1.2226	1.2505	12.1149	67.3934	3.3508	.4753	2.1118
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.2100	.2392	1.2603	1.2847	11.1814	67.5305	3.2040	.4756	2.0898
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.2400	.2219	1.2985	1.3191	10.1451	67.9678	3.0571	.4754	2.0675
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.2700	.2009	1.3372	1.3538	8.9878	68.8155	2.9103	.4746	2.0449
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.3000	.1752	1.3765	1.3890	7.6751	70.2630	2.7635	.4732	2.0220
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.3300	.1429	1.4165	1.4247	6.1331	72.6807	2.6167	.4712	1.9986
2.5	1.9261	1.2226	1.16	.7210	1.3870	1.3600	.0987	1.4572	1.4610	4.1521	77.0191	2.4699	.4685	1.9748
2.5	1.9261	1.2226	1.20	.8238	1.2140	.8300	.0431	.8114	.8125	2.9753	87.3391	4.9234	.4219	2.5386
2.5	1.9261	1.2226	1.20	.8238	1.2140	.8600	.0993	.8443	.8499	6.5897	83.6886	4.7715	.4242	2.5173
2.5	1.9261	1.2226	1.20	.8238	1.2140	.8900	.1279	.8775	.8865	8.1765	81.6215	4.6197	.4262	2.4958
2.5	1.9261	1.2226	1.20	.8238	1.2140	.9200	.1461	.9110	.9224	9.0215	80.1151	4.4678	.4280	2.4742
2.5	1.9261	1.2226	1.20	.8238	1.2140	.9500	.1576	.9449	.9578	9.4216	78.9635	4.3159	.4295	2.4525
2.5	1.9261	1.2226	1.20	.8238	1.2140	.9800	.1641	.9791	.9927	9.5064	78.0924	4.1641	.4308	2.4307
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.0100	.1662	1.0136	1.0273	9.3440	77.4773	4.0122	.4317	2.4087
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.0400	.1642	1.0486	1.0616	8.9719	77.1229	3.8603	.4323	2.3866
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.0700	.1581	1.0839	1.0957	8.4073	77.0593	3.7085	.4326	2.3644
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.1000	.1477	1.1196	1.1297	7.6496	77.3497	3.5566	.4325	2.3417
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.1300	.1322	1.1558	1.1637	6.6750	78.1128	3.4048	.4319	2.3190
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.1600	.1099	1.1924	1.1978	5.4125	79.5899	3.2529	.4309	2.2959
2.5	1.9261	1.2226	1.20	.8238	1.2140	1.1900	.0755	1.2295	1.2320	3.6313	82.4296	3.1010	.4294	2.2726

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.3

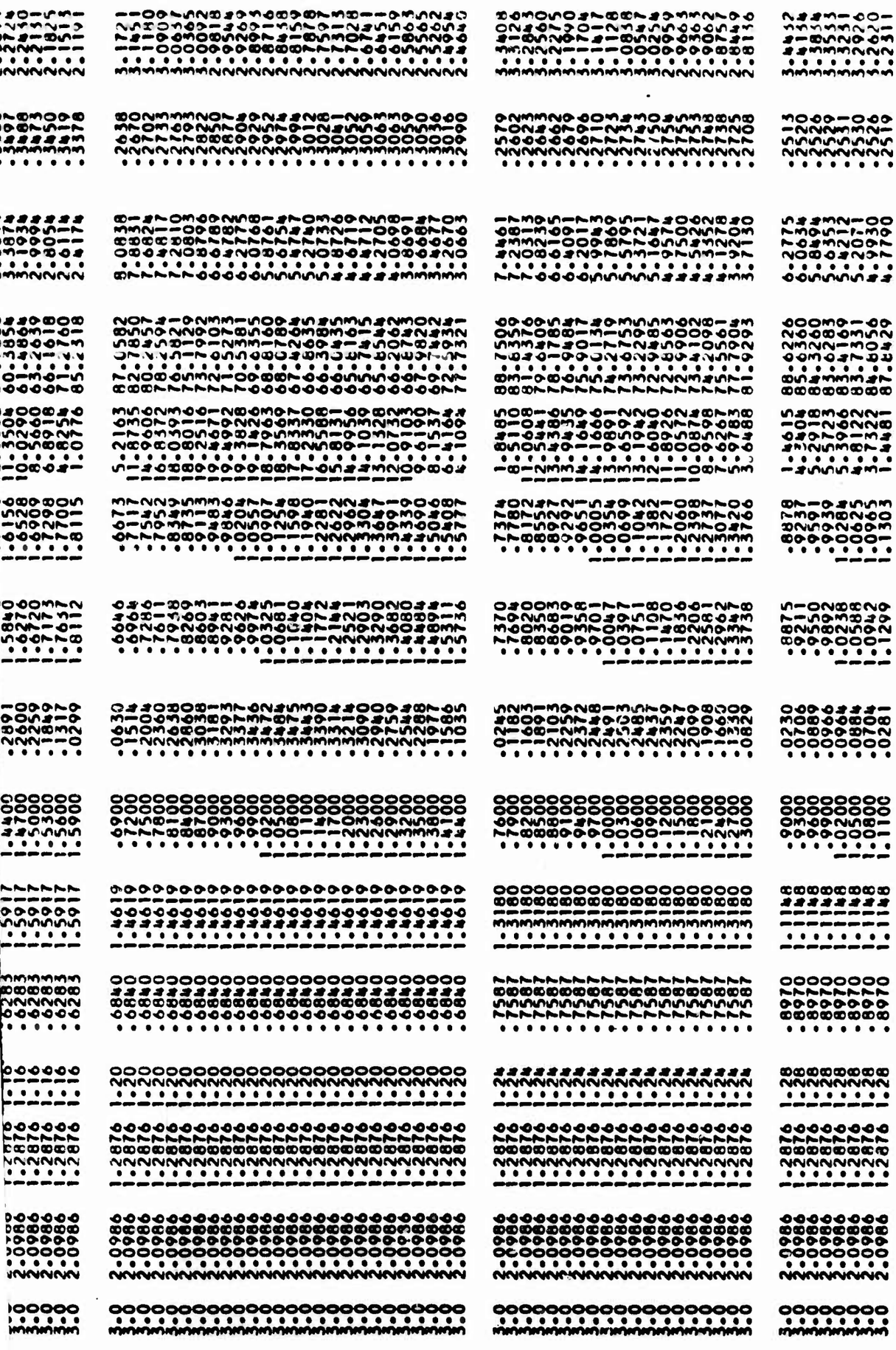
M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
3.0	2.0986	1.2876	1.00	.4765	2.0986	.4800	.0709	.4546	.4596	8.4076	87.4904	10.0240	.2830	2.2778
3.0	2.0986	1.2876	1.00	.4765	2.0986	.5100	.2172	.4854	.5276	23.0723	82.2133	9.8567	.2902	2.2558
3.0	2.0986	1.2876	1.00	.4765	2.0986	.5400	.2959	.5165	.5890	28.7241	79.2493	9.6895	.2977	2.2338
3.0	2.0986	1.2876	1.00	.4765	2.0986	.5700	.3552	.5479	.6456	31.9315	76.9176	9.5222	.3054	2.2117
3.0	2.0986	1.2876	1.00	.4765	2.0986	.6000	.4038	.5796	.6986	33.9380	74.9215	9.3550	.3134	2.1897
3.0	2.0986	1.2876	1.00	.4765	2.0986	.6300	.4451	.6117	.7489	35.2395	73.1406	9.1877	.3216	2.1676
3.0	2.0986	1.2876	1.00	.4765	2.0986	.6600	.4810	.6441	.7970	36.0850	71.5123	9.0205	.3300	2.1456
3.0	2.0986	1.2876	1.00	.4765	2.0986	.6900	.5127	.6769	.8433	36.6159	69.9987	8.8532	.3388	2.1235
3.0	2.0986	1.2876	1.00	.4765	2.0986	.7200	.5410	.7100	.8881	36.9195	68.5750	8.6860	.3478	2.1014
3.0	2.0986	1.2876	1.00	.4765	2.0986	.7500	.5663	.7435	.9316	37.0529	67.2239	8.5187	.3571	2.0793
3.0	2.0986	1.2876	1.00	.4765	2.0986	.7800	.5890	.7774	.9741	37.0553	65.9326	8.3515	.3666	2.0572
3.0	2.0986	1.2876	1.00	.4765	2.0986	.8100	.6094	.8117	1.0157	36.9544	64.6915	8.1842	.3765	2.0351
3.0	2.0986	1.2876	1.00	.4765	2.0986	.8400	.6277	.8463	1.0566	36.7703	63.4931	8.0169	.3867	2.0129
3.0	2.0986	1.2876	1.00	.4765	2.0986	.8700	.6442	.8814	1.0968	36.5180	62.3314	7.8497	.3973	1.9908
3.0	2.0986	1.2876	1.00	.4765	2.0986	.9000	.6589	.9169	1.1364	36.2090	61.2013	7.6824	.4081	1.9686
3.0	2.0986	1.2876	1.00	.4765	2.0986	.9300	.6720	.9529	1.1756	35.8521	60.0989	7.5152	.4193	1.9465
3.0	2.0986	1.2876	1.00	.4765	2.0986	.9600	.6836	.9893	1.2145	35.4541	59.0207	7.3479	.4309	1.9243
3.0	2.0986	1.2876	1.00	.4765	2.0986	.9900	.6937	1.0261	1.2530	35.0203	57.9636	7.1807	.4428	1.9021
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.0200	.7025	1.0635	1.2913	34.5552	56.9253	7.0134	.4551	1.8798
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.0500	.7099	1.1013	1.3294	34.0621	55.9032	6.8462	.4677	1.8576
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.0800	.7160	1.1396	1.3673	33.5438	54.8956	6.6789	.4808	1.8353
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.1100	.7209	1.1784	1.4052	33.0023	53.9006	6.5117	.4942	1.8130
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.1400	.7246	1.2178	1.4430	32.4396	52.9166	6.3444	.5081	1.7907
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.1700	.7270	1.2577	1.4808	31.8569	51.9421	6.1772	.5224	1.7684
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.2000	.7283	1.2982	1.5186	31.2553	50.9757	6.0099	.5370	1.7460
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.2300	.7285	1.3393	1.5565	30.6357	50.0161	5.8427	.5521	1.7236
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.2600	.7274	1.3810	1.5946	29.9984	49.0622	5.6754	.5677	1.7012
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.2900	.7252	1.4233	1.6328	29.3440	48.1128	5.5082	.5836	1.6787
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.3200	.7219	1.4662	1.6712	28.6726	47.1669	5.3409	.6000	1.6562
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.3500	.7173	1.5099	1.7098	27.9842	46.2233	5.1737	.6168	1.6336
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.3800	.7116	1.5542	1.7487	27.2786	45.2810	5.0064	.6340	1.6110
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.4100	.7047	1.5993	1.7879	26.5555	44.3390	4.8392	.6516	1.5884
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.4400	.6966	1.6451	1.8275	25.8145	43.3964	4.6719	.6696	1.5657
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.4700	.6872	1.6917	1.8675	25.0549	42.4519	4.5047	.6879	1.5429
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.5000	.6765	1.7392	1.9079	24.2760	41.5047	4.3374	.7066	1.5200
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.5300	.6645	1.7875	1.9488	23.4766	40.5537	4.1702	.7256	1.4971
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.5600	.6511	1.8367	1.9903	22.6558	39.5976	4.0029	.7449	1.4741
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.5900	.6363	1.8869	2.0324	21.8121	38.6355	3.8357	.7644	1.4510
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.6200	.6200	1.9381	2.0752	20.9439	37.6659	3.6684	.7841	1.4277
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.6500	.6022	1.9904	2.1188	20.0492	36.6877	3.5011	.8038	1.4044
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.6800	.5826	2.0437	2.1631	19.1258	35.6995	3.3339	.8235	1.3808
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.7100	.5613	2.0983	2.2084	18.1711	34.6996	3.1666	.8431	1.3571
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.7400	.5380	2.1542	2.2548	17.1821	33.6864	2.9994	.8625	1.3332
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.7700	.5127	2.2114	2.3023	16.1549	32.6580	2.8321	.8815	1.3091
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.8000	.4852	2.2701	2.3512	15.0854	31.6124	2.6649	.8999	1.2847
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.8300	.4552	2.3305	2.4015	13.9681	30.5471	2.4976	.9175	1.2600
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.8600	.4225	2.3927	2.4537	12.7969	29.4595	2.3304	.9342	1.2348
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.8900	.3867	2.4569	2.5078	11.5639	28.3464	2.1631	.9496	1.2092
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.9200	.3475	2.5234	2.5644	10.2594	27.2041	1.9959	.9635	1.1830
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.9500	.3044	2.5926	2.6240	8.8713	26.0282	1.8286	.9755	1.1561
3.0	2.0986	1.2876	1.00	.4765	2.0986	1.9800	.2566	2.6648	2.6871	7.3837	24.8134	1.6614	.9853	1.1281
3.0	2.0986	1.2876	1.00	.4765	2.0986	2.0100	.2033	2.7409	2.7549	5.7762	23.5531	1.4941	.9927	1.0989
3.0	2.0986	1.2876	1.00	.4765	2.0986	2.0400	.1434	2.8217	2.8287	4.0208	22.2390	1.3269	.9974	1.0681
3.0	2.0986	1.2876	1.00	.4765	2.0986	2.0700	.0751	2.9088	2.9107	2.0788	20.8603	1.1596	.9996	1.0349
3.0	2.0986	1.2876	1.04	.5081	1.9679	.5100	.0489	.4839	.4862	5.4820	88.1889	9.7430	.2794	2.4547
3.0	2.0986	1.2876	1.04	.5081	1.9679	.5400	.2005	.5148	.5491	20.3666	82.4765	9.5690	.2859	2.4318
3.0	2.0986	1.2876	1.04	.5081	1.9679	.5700	.2761	.5460	.6067	25.8416	79.4889	9.3951	.2925	2.4088
3.0	2.0986	1.2876	1.04	.5081	1.9679	.6000	.3324	.5775	.6602	28.9837	77.1574	9.2212	.2992	2.3858
3.0	2.0986	1.2876	1.04	.5081	1.9679	.6300	.3781	.6093	.7106	30.9760	75.1688	9.0472	.3062	2.3628
3.0	2.0986	1.2876	1.04	.5081	1.9679	.6600	.4168	.6415	.7587	32.2700	73.3990	8.8733	.3133	2.3398
3.0	2.0986	1.2876	1.04	.5081	1.9679	.6900	.4502	.6740	.8047	33.1200	71.7918	8.6993	.3207	2.3167

3.0	2.0986	1.2876	1.08	.5431	1.8413	1.0300	.5724	1.0614	1.2143	29.0625	59.9492	6.4983	.3810	2.2446
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.0600	.5771	1.0983	1.2505	28.5654	58.9724	6.3177	.3883	2.2202
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.0900	.5803	1.1356	1.2865	28.0309	58.0196	6.1370	.3957	2.1959
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.1200	.5821	1.1734	1.3224	27.4620	57.0894	5.9564	.4031	2.1714
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.1500	.5824	1.2117	1.3583	26.8610	56.1807	5.7758	.4106	2.1469
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.1800	.5814	1.2505	1.3940	26.2297	55.2928	5.5951	.4181	2.1224
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.2100	.5789	1.2898	1.4298	25.5695	54.4252	5.4145	.4256	2.0978
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.2400	.5751	1.3296	1.4656	24.8811	53.5781	5.2339	.4330	2.0731
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.2700	.5698	1.3700	1.5016	24.1651	52.7517	5.0532	.4404	2.0485
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.3000	.5631	1.4109	1.5376	23.4215	51.9469	4.8726	.4478	2.0234
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.3300	.5550	1.4525	1.5739	22.6502	51.1650	4.6920	.4550	1.9985
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.3600	.5454	1.4946	1.6103	21.8506	50.4081	4.5114	.4621	1.9734
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.3900	.5342	1.5375	1.6471	21.0218	49.6789	4.3307	.4689	1.9482
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.4200	.5214	1.5809	1.6841	20.1625	48.9812	4.1501	.4756	1.9229
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.4500	.5070	1.6251	1.7216	19.2712	48.3203	3.9695	.4819	1.8975
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.4800	.4908	1.6701	1.7595	18.3456	47.7032	3.7888	.4880	1.8718
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.5100	.4727	1.7158	1.7980	17.3832	47.1394	3.6082	.4936	1.8459
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.5400	.4527	1.7624	1.8370	16.3807	46.6424	3.4276	.4987	1.8199
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.5700	.4305	1.8099	1.8767	15.3341	46.2306	3.2469	.5032	1.7935
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.6000	.4060	1.8584	1.9173	14.2382	45.9309	3.0663	.5071	1.7668
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.6300	.3789	1.9079	1.9587	13.0866	45.7830	2.8857	.5102	1.7398
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.6600	.3489	1.9585	2.0013	11.8707	45.8476	2.7050	.5125	1.7123
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.6900	.3156	2.0104	2.0452	10.5791	46.2232	2.5244	.5137	1.6843
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.7200	.2784	2.0638	2.0906	9.1951	47.0795	2.3438	.5138	1.6556
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.7500	.2364	2.1187	2.1379	7.6922	48.7377	2.1631	.5126	1.6261
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.7800	.1877	2.1755	2.1876	6.0209	51.6971	1.9825	.5099	1.5956
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.8100	.1282	2.2345	2.2401	4.0528	58.5165	1.8019	.5057	1.5639
3.0	2.0986	1.2876	1.08	.5431	1.8413	1.8400	.0243	2.2963	2.2965	.7562	82.2908	1.6212	.4997	1.5304

3.0	2.0986	1.2876	1.12	.5825	1.7167	.5900	.0860	.5634	.5694	8.2952	86.4664	9.0160	.2732	2.8112
3.0	2.0986	1.2876	1.12	.5825	1.7167	.6200	.1896	.5947	.6219	17.0003	82.6827	8.8287	.2780	2.7862
3.0	2.0986	1.2876	1.12	.5825	1.7167	.6500	.2504	.6263	.6711	21.0710	79.5598	8.6414	.2829	2.7613
3.0	2.0986	1.2876	1.12	.5825	1.7167	.6800	.2962	.6582	.7179	23.5409	77.1912	8.4540	.2879	2.7363
3.0	2.0986	1.2876	1.12	.5825	1.7167	.7100	.3333	.6904	.7626	25.1454	75.3294	8.2667	.2929	2.7113
3.0	2.0986	1.2876	1.12	.5825	1.7167	.7400	.3642	.7229	.8057	26.2051	73.6694	8.0794	.2980	2.6863
3.0	2.0986	1.2876	1.12	.5825	1.7167	.7700	.3905	.7557	.8473	26.8917	72.1553	7.8921	.3032	2.6612
3.0	2.0986	1.2876	1.12	.5825	1.7167	.8000	.4131	.7889	.8878	27.3082	70.7532	7.7047	.3084	2.6362
3.0	2.0986	1.2876	1.12	.5825	1.7167	.8300	.4325	.8224	.9273	27.5210	69.4407	7.5174	.3136	2.6110
3.0	2.0986	1.2876	1.12	.5825	1.7167	.8600	.4491	.8562	.9660	27.5752	68.2023	7.3301	.3189	2.5859
3.0	2.0986	1.2876	1.12	.5825	1.7167	.8900	.4634	.8905	1.0039	27.5027	67.0268	7.1428	.3242	2.5607
3.0	2.0986	1.2876	1.12	.5825	1.7167	.9200	.4754	.9250	1.0412	27.3265	65.9057	6.9555	.3296	2.5355
3.0	2.0986	1.2876	1.12	.5825	1.7167	.9500	.4854	.9600	1.0780	27.0637	64.8329	6.7681	.3349	2.5102
3.0	2.0986	1.2876	1.12	.5825	1.7167	.9800	.4935	.9953	1.1144	26.7273	63.8035	6.5808	.3403	2.4849
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.0100	.4998	1.0311	1.1504	26.3271	62.8138	6.3935	.3456	2.4596
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.0400	.5043	1.0672	1.1861	25.8709	61.8613	6.2062	.3509	2.4342
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.0700	.5073	1.1038	1.2216	25.3645	60.9441	6.0188	.3562	2.4087
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.1000	.5086	1.1408	1.2569	24.8125	60.0609	5.8315	.3614	2.3831
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.1300	.5083	1.1783	1.2920	24.2182	59.2113	5.6442	.3666	2.3575
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.1600	.5064	1.2162	1.3271	23.5843	58.3956	5.4569	.3716	2.3318
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.1900	.5030	1.2546	1.3621	22.9127	57.6145	5.2696	.3766	2.3061
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.2200	.4980	1.2935	1.3971	22.2043	56.8698	5.0822	.3814	2.2802
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.2500	.4914	1.3330	1.4322	21.4600	56.1641	4.8949	.3861	2.2542
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.2800	.4832	1.3729	1.4675	20.6796	55.5012	4.7076	.3905	2.2281
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.3100	.4732	1.4134	1.5028	19.8627	54.8862	4.5203	.3947	2.2019
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.3400	.4616	1.4545	1.5384	19.0083	54.3260	4.3329	.3986	2.1755
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.3700	.4482	1.4963	1.5743	18.1146	53.8300	4.1456	.4023	2.1489
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.4000	.4328	1.5386	1.6105	17.1793	53.4108	3.9583	.4055	2.1222
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.4300	.4154	1.5817	1.6471	16.1993	53.0858	3.7710	.4083	2.0952
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.4600	.3959	1.6255	1.6842	15.1703	52.8789	3.5837	.4107	2.0680
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.4900	.3739	1.6700	1.7218	14.0868	52.8241	3.3963	.4125	2.0405
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.5200	.3493	1.7154	1.7601	12.9412	52.9712	3.2090	.4137	2.0126
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.5500	.3216	1.7617	1.7992	11.7231	53.3956	3.0217	.4142	1.9843
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.5800	.2905	1.8090	1.8393	10.4174	54.2176	2.8344	.4139	1.9555
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.6100	.2550	1.8573	1.8804	9.0000	55.6433	2.6471	.4127	1.9262
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.6400	.2138	1.9068	1.9230	7.4285	58.0620	2.4597	.4106	1.8961
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.6700	.1640	1.9578	1.9672	5.6095	62.3451	2.2724	.4073	1.8652
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.7000	.0957	2.0103	2.0135	3.2206	71.3252	2.0851	.4029	1.8331

3.0	2.0986	1.2876	1.16	.6283	1.5917	.6300	.0381	.6034	.6045	3.4574	88.3465	8.6257	.2681	2.9979
3.0	2.0986	1.2876	1.16	.6283	1.5917	.6600	.1602	.6348	.6533	13.6421	82.9137	8.4317	.2721	2.9719
3.0	2.0986	1.2876	1.16	.6283	1.5917	.6900	.2194	.6666	.6995	17.6400	80.1106	8.2377	.2761	2.9459
3.0	2.0986	1.2876	1.16	.6283	1.5917	.7200	.2625	.6987	.7437	20.0302	77.9395	8.0437	.2802	2.9199
3.0	2.0986	1.2876	1.16	.6283	1.5917	.7500	.2966	.7311	.7862	21.5740	76.1025	7.8497	.2843	2.8939
3.0	2.0986	1.2876	1.16	.6283	1.5917	.7800	.3245	.7638	.8272	22.5861	74.4819	7.6557	.2883	2.8678
3.0	2.0986	1.2876	1.16	.6283	1.5917	.8100	.3477	.7968	.8671	23.2325	73.0173	7.4617	.2924	2.8417
3.0	2.0986	1.2876	1.16	.6283	1.5917	.8400	.3672	.8301	.9060	23.6120	71.6728	7.2677	.2964	2.8155
3.0	2.0986	1.2876	1.16	.6283	1.5917	.8700	.3835	.8638	.9440	23.7884	70.4256	7.0736	.3005	2.7893
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9000	.3970	.8978	.9813	23.8049	69.2603	6.8796	.3044	2.7631
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9300	.4081	.9322	1.0180	23.6920	68.1659	6.6856	.3084	2.7367
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9600	.4168	.9668	1.0541	23.4720	67.1344	6.4915	.3123	2.7104

3.0	2.0986	1.2876	1.12	.5825	1.7167	1.5500	.3216	1.7617	1.7992	11.7231	53.3956	3.0217	.4142	1.9845
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.5800	.2905	1.8090	1.8393	10.4174	54.2176	2.8344	.4139	1.9555
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.6100	.2550	1.8573	1.8804	9.0000	55.0433	2.6471	.4127	1.9262
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.6400	.2138	1.9068	1.9230	7.4285	58.0620	2.4597	.4106	1.8961
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.6700	.1640	1.9578	1.9672	5.6095	62.3451	2.2724	.4073	1.8652
3.0	2.0986	1.2876	1.12	.5825	1.7167	1.7000	.0957	2.0103	2.0135	3.2206	71.3252	2.0851	.4029	1.8331
3.0	2.0986	1.2876	1.16	.6283	1.5917	.6300	.0381	.6034	.6045	3.4574	88.3465	8.6257	.2681	2.9979
3.0	2.0986	1.2876	1.16	.6283	1.5917	.6600	.1602	.6348	.6533	13.6421	82.9137	8.4317	.2721	2.9719
3.0	2.0986	1.2876	1.16	.6283	1.5917	.6900	.2194	.6666	.6995	17.6400	80.1106	8.2377	.2761	2.9459
3.0	2.0986	1.2876	1.16	.6283	1.5917	.7200	.2625	.6987	.7437	20.0302	77.9395	8.0437	.2802	2.9199
3.0	2.0986	1.2876	1.16	.6283	1.5917	.7500	.2966	.7311	.7862	21.5740	76.1025	7.8497	.2843	2.8939
3.0	2.0986	1.2876	1.16	.6283	1.5917	.7800	.3245	.7638	.8272	22.5861	74.4819	7.6557	.2883	2.8678
3.0	2.0986	1.2876	1.16	.6283	1.5917	.8100	.3477	.7968	.8671	23.2325	73.0173	7.4617	.2924	2.8417
3.0	2.0986	1.2876	1.16	.6283	1.5917	.8400	.3672	.8301	.9060	23.6120	71.6728	7.2677	.2964	2.8155
3.0	2.0986	1.2876	1.16	.6283	1.5917	.8700	.3835	.8638	.9440	23.7884	70.4256	7.0736	.3005	2.7893
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9000	.3970	.8978	.9813	23.8049	69.2603	6.8796	.3044	2.7631
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9300	.4081	.9322	1.0180	23.6920	68.1659	6.6856	.3084	2.7367
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9600	.4169	.9669	1.0542	23.4720	67.1350	6.4916	.3123	2.7104
3.0	2.0986	1.2876	1.16	.6283	1.5917	.9900	.4235	1.0021	1.0899	23.1611	66.1622	6.2976	.3161	2.6839
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.0200	.4282	1.0376	1.1253	22.7716	65.2441	6.1036	.3198	2.6574
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.0500	.4309	1.0735	1.1603	22.3129	64.3789	5.9096	.3234	2.6308
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.0800	.4318	1.1098	1.1952	21.7918	63.5658	5.7156	.3269	2.6042
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.1100	.4308	1.1465	1.2298	21.2136	62.8055	5.5216	.3303	2.5774
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.1400	.4281	1.1837	1.2644	20.5821	62.1002	5.3275	.3335	2.5505
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.1700	.4235	1.2213	1.2989	19.8998	61.4534	5.1335	.3365	2.5236
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.2000	.4171	1.2594	1.3333	19.1681	60.8704	4.9395	.3393	2.4965
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.2300	.4089	1.2980	1.3678	18.3875	60.3586	4.7455	.3419	2.4692
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.2600	.3987	1.3371	1.4024	17.5576	59.9285	4.5515	.3441	2.4418
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.2900	.3864	1.3767	1.4372	16.6768	59.5941	4.3575	.3461	2.4142
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.3200	.3721	1.4169	1.4721	15.7424	59.3746	4.1635	.3477	2.3864
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.3500	.3554	1.4577	1.5074	14.7501	59.2967	3.9695	.3489	2.3584
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.3800	.3363	1.4991	1.5430	13.6940	59.3980	3.7754	.3497	2.3300
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.4100	.3143	1.5412	1.5790	12.5652	59.7333	3.5814	.3500	2.3014
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.4400	.2891	1.5840	1.6156	11.3504	60.3854	3.3874	.3497	2.2724
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.4700	.2600	1.6276	1.6528	10.0290	61.4864	3.1934	.3488	2.2430
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.5000	.2259	1.6720	1.6909	8.5660	63.2639	2.9994	.3473	2.2131
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.5300	.1849	1.7173	1.7298	6.8918	66.1618	2.8054	.3450	2.1825
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.5600	.1317	1.7637	1.7700	4.8254	71.2760	2.6114	.3419	2.1513
3.0	2.0986	1.2876	1.16	.6283	1.5917	1.5900	.0299	1.8112	1.8115	1.0776	85.2318	2.4174	.3378	2.1191
3.0	2.0986	1.2876	1.20	.6840	1.4619	.6900	.0630	.6646	.6673	5.2163	87.0582	8.0838	.2638	3.1721
3.0	2.0986	1.2876	1.20	.6840	1.4619	.7200	.1514	.6964	.7117	11.8735	82.7850	7.8831	.2670	3.1451
3.0	2.0986	1.2876	1.20	.6840	1.4619	.7500	.2004	.7286	.7542	14.9606	80.2457	7.6824	.2702	3.1180
3.0	2.0986	1.2876	1.20	.6840	1.4619	.7800	.2360	.7611	.7952	16.8372	78.2594	7.4817	.2733	3.0909
3.0	2.0986	1.2876	1.20	.6840	1.4619	.8100	.2638	.7938	.8349	18.0393	76.5821	7.2810	.2763	3.0637
3.0	2.0986	1.2876	1.20	.6840	1.4619	.8400	.2860	.8269	.8735	18.8016	75.1129	7.0803	.2793	3.0365
3.0	2.0986	1.2876	1.20	.6840	1.4619	.8700	.3038	.8603	.9113	19.2516	73.7992	6.8796	.2822	3.0092
3.0	2.0986	1.2876	1.20	.6840	1.4619	.9000	.3181	.8941	.9483	19.4671	72.6103	6.6789	.2850	2.9818
3.0	2.0986	1.2876	1.20	.6840	1.4619	.9300	.3293	.9281	.9846	19.4992	71.5273	6.4782	.2877	2.9544
3.0	2.0986	1.2876	1.20	.6840	1.4619	.9600	.3377	.9626	1.0204	19.3828	70.5381	6.2775	.2904	2.9269
3.0	2.0986	1.2876	1.20	.6840	1.4619	.9900	.3436	.9974	1.0557	19.1426	69.6355	6.0768	.2929	2.8993
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.0200	.3472	1.0325	1.0907	18.7983	68.8160	5.8761	.2952	2.8716
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.0500	.3484	1.0681	1.1254	18.3569	68.0789	5.6754	.2974	2.8438
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.0800	.3475	1.1040	1.1598	17.8337	67.4264	5.4747	.2994	2.8159
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.1100	.3443	1.1404	1.1940	17.2330	66.8635	5.2740	.3012	2.7878
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.1400	.3390	1.1772	1.2281	16.5588	66.3984	5.0733	.3028	2.7597
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.1700	.3314	1.2144	1.2622	15.8131	66.0435	4.8726	.3041	2.7315
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.2000	.3214	1.2521	1.2962	14.9956	65.8163	4.6719	.3052	2.7028
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.2300	.3090	1.2903	1.3304	14.1039	65.7415	4.4712	.3059	2.6741
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.2600	.2940	1.3290	1.3647	13.1328	65.8544	4.2705	.3063	2.6451
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.2900	.2759	1.3682	1.3991	12.0732	66.2062	4.0698	.3063	2.6159
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.3200	.2544	1.4080	1.4339	10.9103	66.8743	3.8691	.3059	2.5863
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.3500	.2288	1.4484	1.4690	9.6190	67.9820	3.6684	.3050	2.5565
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.3800	.1977	1.4894	1.5046	8.1537	69.7442	3.4677	.3036	2.5262
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.4100	.1586	1.5311	1.5408	6.4164	72.5934	3.2670	.3016	2.4954
3.0	2.0986	1.2876	1.20	.6840	1.4619	1.4400	.1035	1.5736	1.5777	4.1094	77.7321	3.0663	.2990	2.4640
3.0	2.0986	1.2876	1.24	.7587	1.3180	.7600	.0245	.7370	.7374	1.8485	88.7506	7.4461	.2579	3.1404
3.0	2.0986	1.2876	1.24	.7587	1.3180	.7900	.1182	.7694	.7780	8.5110	83.6359	7.2387	.2602	3.1126
3.0	2.0986	1.2876	1.24	.7587	1.3180	.8200	.1603	.8020	.8172	11.0608	81.4376	7.0313	.2623	3.0845
3.0	2.0986	1.2876	1.24	.7587	1.3180	.8500	.1891	.8350	.8554	12.5441	79.6409	6.8239	.2643	3.0560
3.0	2.0986	1.2876	1.24	.7587	1.3180	.8800	.2103	.8683	.8927	13.4386	78.1785	6.6165	.2662	3.0275
3.0	2.0986	1.2876	1.24	.7587	1.3180	.9100	.2259	.9019	.9292	13.9435	76.9484	6.4091	.2679	3.1990
3.0	2.0986	1.2876	1.24	.7587	1.3180	.9400	.2372	.9358	.9651	14.1649	75.9017	6.2017	.2696	3.1704
3.0	2.0986	1.2876	1.24	.7587	1.3180	.9700	.2448	.9701	1.0005	14.1666	75.0134	5.9943	.2710	3.1417
3.0	2.0986	1.2876	1.24	.7587	1.3180	1.0000	.2491	1.0047	1.0354	13.9891	74.2719	5.7869	.2725	3.1128
3.0	2.0986	1.2876	1.24	.7587	1.3180	1.0300	.2503	1.0397	1.0699	13.6592	73.6758	5.5795	.2737	3.0838



LOOP BRANCH (M1 FROM 1 TO 5)

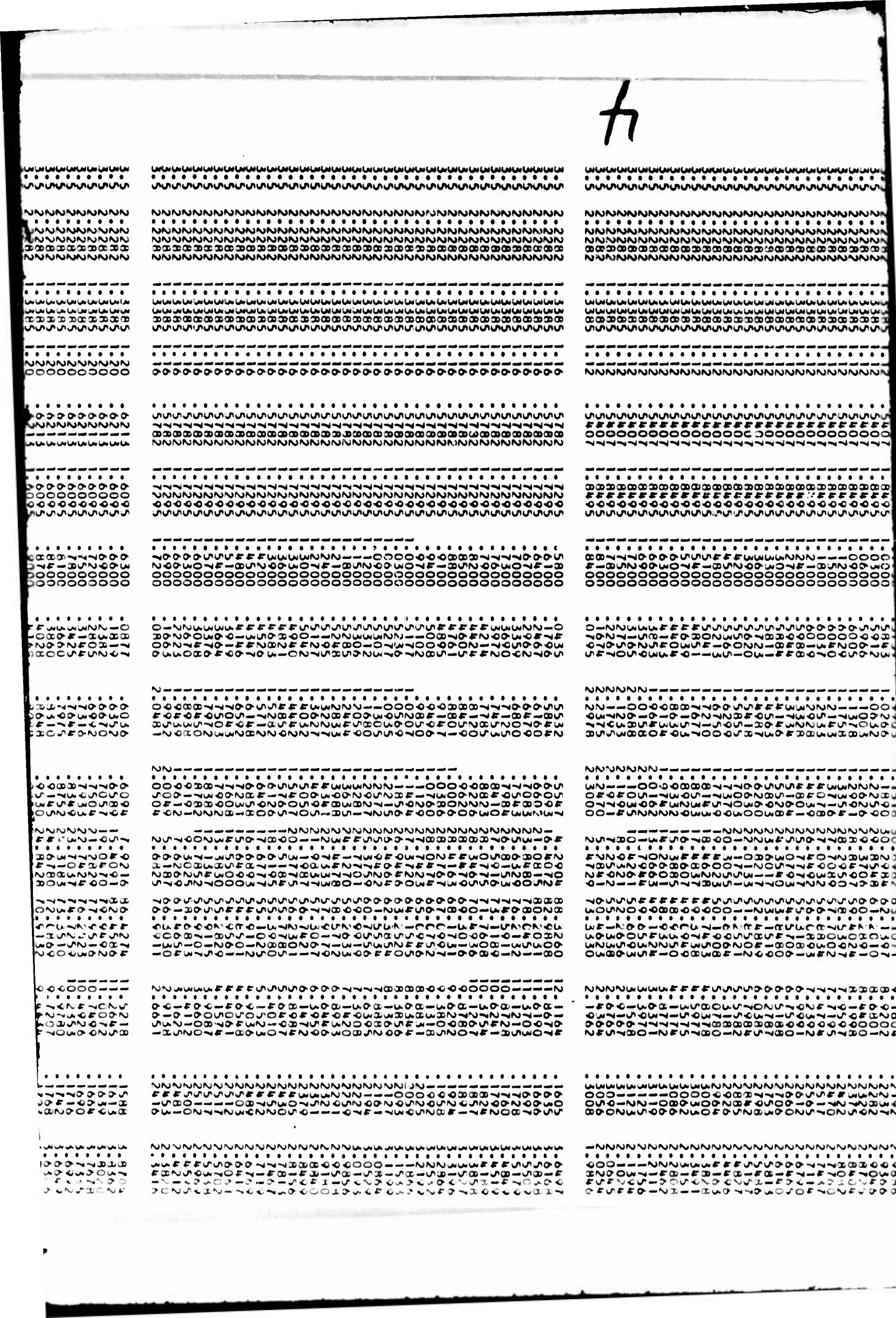
GAMMA = 1.3

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
3.5	2.2282	1.3385	1.00	.4488	2.2282	.4500	.0443	.4253	.4274	5.6226	88.5728	13.7088	.1679	2.7618
3.5	2.2282	1.3385	1.00	.4488	2.2282	.4800	.2237	.4560	.5031	24.9829	82.7095	13.4944	.1728	2.7357
3.5	2.2282	1.3385	1.00	.4488	2.2282	.5100	.3103	.4870	.5701	31.3184	79.7626	13.2800	.1779	2.7056
3.5	2.2282	1.3385	1.00	.4488	2.2282	.5400	.3752	.5184	.6312	34.7922	77.4696	13.0656	.1831	2.6775
3.5	2.2282	1.3385	1.00	.4488	2.2282	.5700	.4283	.5501	.6881	36.9238	75.5161	12.8511	.1885	2.6493
3.5	2.2282	1.3385	1.00	.4488	2.2282	.6000	.4737	.5821	.7417	38.2907	73.7784	12.6367	.1941	2.6212
3.5	2.2282	1.3385	1.00	.4488	2.2282	.6300	.5133	.6145	.7927	39.1738	72.1929	12.4223	.2000	2.5931
3.5	2.2282	1.3385	1.00	.4488	2.2282	.6600	.5485	.6473	.8417	39.7289	70.7216	12.2079	.2061	2.5649
3.5	2.2282	1.3385	1.00	.4488	2.2282	.6900	.5800	.6805	.8890	40.0505	69.3396	11.9935	.2124	2.5368
3.5	2.2282	1.3385	1.00	.4488	2.2282	.7200	.6084	.7141	.9349	40.1996	68.0296	11.7791	.2189	2.5086
3.5	2.2282	1.3385	1.00	.4488	2.2282	.7500	.6342	.7480	.9796	40.2173	66.7790	11.5647	.2257	2.4805
3.5	2.2282	1.3385	1.00	.4488	2.2282	.7800	.6576	.7824	1.0233	40.1326	65.5784	11.3503	.2327	2.4523
3.5	2.2282	1.3385	1.00	.4488	2.2282	.8100	.6789	.8172	1.0663	39.9663	64.4203	11.1358	.2401	2.4241
3.5	2.2282	1.3385	1.00	.4488	2.2282	.8400	.6982	.8524	1.1085	39.7338	63.2987	10.9214	.2477	2.3959
3.5	2.2282	1.3385	1.00	.4488	2.2282	.8700	.7158	.8881	1.1501	39.4468	62.2088	10.7070	.2556	2.3677
3.5	2.2282	1.3385	1.00	.4488	2.2282	.9000	.7318	.9243	1.1912	39.1142	61.1467	10.4926	.2638	2.3395
3.5	2.2282	1.3385	1.00	.4488	2.2282	.9300	.7462	.9609	1.2320	38.7430	60.1088	10.2782	.2724	2.3113
3.5	2.2282	1.3385	1.00	.4488	2.2282	.9600	.7592	.9980	1.2724	38.3386	59.0925	10.0638	.2813	2.2831
3.5	2.2282	1.3385	1.00	.4488	2.2282	.9900	.7708	1.0356	1.3125	37.9054	58.0951	9.8494	.2906	2.2548
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.0200	.7812	1.0737	1.3525	37.4468	57.1145	9.6349	.3002	2.2266
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.0500	.7902	1.1124	1.3922	36.9656	56.1488	9.4205	.3102	2.1983
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.0800	.7981	1.1516	1.4319	36.4641	55.1963	9.2061	.3207	2.1701
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.1100	.8048	1.1914	1.4716	35.9441	54.2554	8.9917	.3315	2.1418
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.1400	.8104	1.2318	1.5113	35.4071	53.3248	8.7773	.3428	2.1135
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.1700	.8148	1.2727	1.5510	34.8542	52.4031	8.5629	.3546	2.0851
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.2000	.8182	1.3143	1.5908	34.2863	51.4892	8.3485	.3668	2.0568
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.2300	.8204	1.3566	1.6307	33.7042	50.5819	8.1341	.3796	2.0284
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.2600	.8216	1.3995	1.6707	33.1083	49.6803	7.9196	.3928	2.0001
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.2900	.8218	1.4431	1.7110	32.4990	48.7834	7.7052	.4066	1.9717
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.3200	.8209	1.4874	1.7516	31.8767	47.8902	7.4908	.4210	1.9432
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.3500	.8189	1.5325	1.7924	31.2412	46.9998	7.2764	.4359	1.9148
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.3800	.8159	1.5783	1.8335	30.5928	46.1113	7.0620	.4515	1.8863
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.4100	.8118	1.6250	1.8750	29.9311	45.2239	6.8476	.4676	1.8578
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.4400	.8066	1.6724	1.9169	29.2561	44.3366	6.6332	.4844	1.8292
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.4700	.8004	1.7208	1.9593	28.5672	43.4488	6.4187	.5019	1.8006
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.5000	.7930	1.7700	2.0022	27.8642	42.5595	6.2043	.5200	1.7720
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.5300	.7845	1.8202	2.0455	27.1463	41.6678	5.9899	.5388	1.7433
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.5600	.7748	1.8714	2.0895	26.4129	40.7728	5.7755	.5583	1.7146
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.5900	.7640	1.9236	2.1341	25.6633	39.8737	5.5611	.5785	1.6858
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.6200	.7519	1.9769	2.1794	24.8963	38.9694	5.3467	.5994	1.6570
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.6500	.7385	2.0313	2.2254	24.1110	38.0590	5.1323	.6210	1.6281
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.6800	.7237	2.0869	2.2723	23.3059	37.1414	4.9179	.6432	1.5990
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.7100	.7076	2.1437	2.3200	22.4797	36.2154	4.7034	.6661	1.5700
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.7400	.6900	2.2019	2.3687	21.6305	35.2799	4.4890	.6897	1.5408
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.7700	.6708	2.2615	2.4185	20.7564	34.3334	4.2746	.7137	1.5114
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8000	.6500	2.3226	2.4694	19.8549	33.3746	4.0602	.7383	1.4820
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8300	.6274	2.3852	2.5215	18.9235	32.4017	3.8458	.7632	1.4524
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8600	.6029	2.4496	2.5751	17.9584	31.4131	3.6314	.7884	1.4226
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8900	.5763	2.5158	2.6301	16.9562	30.4066	3.4170	.8137	1.3925
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.9200	.5474	2.5840	2.6870	15.9122	29.3799	3.2026	.8389	1.3622
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.9500	.5160	2.6544	2.7457	14.8208	28.3304	2.9881	.8638	1.3316
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.9800	.4818	2.7271	2.8067	13.6750	27.2550	2.7737	.8880	1.3006
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.0100	.4444	2.8026	2.8703	12.4663	26.1500	2.5593	.9111	1.2691
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.0400	.4033	2.8811	2.9369	11.1840	25.0109	2.3449	.9328	1.2370
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.0700	.3581	2.9631	3.0071	9.8141	23.8326	2.1305	.9524	1.2042
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1000	.3078	3.0493	3.0819	8.3383	22.6083	1.9161	.9694	1.1703
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1300	.2514	3.1406	3.1624	6.7319	21.3296	1.7017	.9832	1.1350
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1600	.1875	3.2384	3.2506	4.9598	19.9858	1.4872	.9929	1.0977
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1900	.1137	3.3450	3.3495	2.9715	18.5620	1.2728	.9984	1.0576
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.2200	.0267	3.4644	3.4646	.6883	17.0379	1.0584	1.0000	1.0132
3.5	2.2282	1.3385	1.04	.4768	2.0972	.4800	.0685	.4546	.4592	8.1248	87.6984	13.3572	.1666	2.9749
3.5	2.2282	1.3385	1.04	.4768	2.0972	.5100	.2195	.4854	.5285	23.2821	82.5355	13.1345	.1719	2.8456

3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8000	.6500	2.3226	2.4694	19.8549	53.3746	4.0602	.7383	1.4820
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8300	.6274	2.3852	2.5215	18.9233	52.4017	3.8458	.7632	1.4524
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8600	.6029	2.4496	2.5751	17.9584	51.4131	3.6314	.7884	1.4226
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.8900	.5763	2.5158	2.6301	16.9562	50.4066	3.4170	.8137	1.3925
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.9200	.5474	2.5840	2.6870	15.9122	49.3799	3.2026	.8389	1.3622
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.9500	.5160	2.6544	2.7457	14.8208	48.3304	2.9881	.8638	1.3316
3.5	2.2282	1.3385	1.00	.4488	2.2282	1.9800	.4818	2.7271	2.8067	13.6750	47.2550	2.7737	.8880	1.3006
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.0100	.4444	2.8026	2.8703	12.4663	46.1500	2.5593	.9111	1.2691
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.0400	.4033	2.8811	2.9369	11.1840	45.0109	2.3449	.9328	1.2370
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.0700	.3581	2.9631	3.0071	9.8141	43.8326	2.1305	.9524	1.2042
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1000	.3078	3.0493	3.0819	8.3383	42.6083	1.9161	.9694	1.1703
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1300	.2514	3.1406	3.1624	6.7319	41.3296	1.7017	.9832	1.1350
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1600	.1875	3.2384	3.2506	4.9598	39.9858	1.4872	.9929	1.0977
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.1900	.1137	3.3450	3.3495	2.9715	38.5620	1.2728	.9984	1.0576
3.5	2.2282	1.3385	1.00	.4488	2.2282	2.2200	.0267	3.4644	3.4646	.6883	37.0379	1.0584	1.0000	1.0132
3.5	2.2282	1.3385	1.04	.4768	2.0972	.4800	.0685	.4546	.4592	8.1248	87.6984	13.3572	.1666	2.9749
3.5	2.2282	1.3385	1.04	.4768	2.0972	.5100	.2195	.4854	.5285	23.2821	82.5355	13.1342	.1710	2.9456
3.5	2.2282	1.3385	1.04	.4768	2.0972	.5400	.2997	.5166	.5908	29.0330	79.6729	12.9112	.1755	2.9163
3.5	2.2282	1.3385	1.04	.4768	2.0972	.5700	.3602	.5480	.6483	32.2895	77.4264	12.6882	.1802	2.8870
3.5	2.2282	1.3385	1.04	.4768	2.0972	.6000	.4097	.5798	.7021	34.3268	75.5062	12.4652	.1850	2.8577
3.5	2.2282	1.3385	1.04	.4768	2.0972	.6300	.4519	.6120	.7531	35.6507	73.7953	12.2422	.1900	2.8284
3.5	2.2282	1.3385	1.04	.4768	2.0972	.6600	.4886	.6444	.8018	36.5141	72.2330	12.0192	.1952	2.7991
3.5	2.2282	1.3385	1.04	.4768	2.0972	.6900	.5211	.6773	.8487	37.0603	70.7826	11.7962	.2005	2.7698
3.5	2.2282	1.3385	1.04	.4768	2.0972	.7200	.5500	.7105	.8941	37.3777	69.4200	11.5732	.2060	2.7404
3.5	2.2282	1.3385	1.04	.4768	2.0972	.7500	.5760	.7441	.9382	37.5241	68.1286	11.3503	.2117	2.7111
3.5	2.2282	1.3385	1.04	.4768	2.0972	.7800	.5994	.7781	.9813	37.5390	66.6960	11.1273	.2176	2.6817
3.5	2.2282	1.3385	1.04	.4768	2.0972	.8100	.6204	.8125	1.0235	37.4502	65.7131	10.9043	.2236	2.6523
3.5	2.2282	1.3385	1.04	.4768	2.0972	.8400	.6394	.8473	1.0648	37.2781	64.5725	10.6813	.2299	2.6229
3.5	2.2282	1.3385	1.04	.4768	2.0972	.8700	.6565	.8825	1.1056	37.0377	63.4685	10.4583	.2364	2.5935
3.5	2.2282	1.3385	1.04	.4768	2.0972	.9000	.6718	.9182	1.1458	36.7407	62.3964	10.2353	.2430	2.5641
3.5	2.2282	1.3385	1.04	.4768	2.0972	.9300	.6856	.9543	1.1855	36.3958	61.3524	10.0123	.2499	2.5347
3.5	2.2282	1.3385	1.04	.4768	2.0972	.9600	.6977	.9908	1.2249	36.0100	60.3331	9.7893	.2571	2.5052
3.5	2.2282	1.3385	1.04	.4768	2.0972	.9900	.7085	1.0279	1.2639	35.5886	59.3358	9.5663	.2644	2.4758
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.0200	.7178	1.0654	1.3027	35.1361	58.3581	9.3433	.2720	2.4463
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.0500	.7259	1.1034	1.3414	34.6558	57.3981	9.1204	.2799	2.4168
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.0800	.7326	1.1419	1.3798	34.1505	56.4538	8.8974	.2879	2.3873
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.1100	.7381	1.1809	1.4182	33.6224	55.5237	8.6744	.2963	2.3577
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.1400	.7424	1.2205	1.4565	33.0733	54.6064	8.4514	.3049	2.3282
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.1700	.7455	1.2607	1.4949	32.5046	53.7006	8.2284	.3138	2.2986
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.2000	.7474	1.3014	1.5332	31.9174	52.8054	8.0054	.3229	2.2690
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.2300	.7482	1.3428	1.5717	31.3124	51.9195	7.7824	.3323	2.2393
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.2600	.7478	1.3847	1.6103	30.6903	51.0423	7.5594	.3420	2.2096
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.2900	.7463	1.4273	1.6490	30.0515	50.1728	7.3364	.3520	2.1799
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.3200	.7437	1.4706	1.6879	29.3961	49.3104	7.1134	.3622	2.1502
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.3500	.7398	1.5145	1.7271	28.7242	48.4545	6.8905	.3728	2.1205
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.3800	.7349	1.5592	1.7665	28.0357	47.6045	6.6675	.3835	2.0905
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.4100	.7287	1.6046	1.8062	27.3303	46.7601	6.4445	.3946	2.0606
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.4400	.7213	1.6508	1.8463	26.6076	45.9209	6.2215	.4059	2.0307
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.4700	.7127	1.6978	1.8868	25.8670	45.0866	5.9985	.4174	2.0007
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.5000	.7029	1.7456	1.9278	25.1077	44.2572	5.7755	.4292	1.9706
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.5300	.6917	1.7943	1.9692	24.3289	43.4328	5.5525	.4411	1.9404
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.5600	.6793	1.8439	2.0111	23.5293	42.6135	5.3295	.4533	1.9101
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.5900	.6654	1.8945	2.0537	22.7078	41.8000	5.1065	.4655	1.8798
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.6200	.6500	1.9461	2.0969	21.8627	40.9930	4.8836	.4779	1.8493
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.6500	.6331	1.9987	2.1408	20.9921	40.1937	4.6606	.4902	1.8187
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.6800	.6146	2.0525	2.1855	20.0940	39.4040	4.4376	.5025	1.7880
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.7100	.5943	2.1074	2.2311	19.1658	38.6264	4.2146	.5148	1.7571
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.7400	.5722	2.1636	2.2776	18.2044	37.8648	3.9916	.5268	1.7260
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.7700	.5481	2.2212	2.3253	17.2062	37.1244	3.7686	.5384	1.6946
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.8000	.5218	2.2802	2.3741	16.1670	36.4130	3.5456	.5496	1.6630
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.8300	.4931	2.3408	2.4243	15.0814	35.7422	3.3226	.5602	1.6311
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.8600	.4618	2.4031	2.4761	13.9431	35.1294	3.0996	.5700	1.5988
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.8900	.4275	2.4673	2.5296	12.7440	34.6021	2.8766	.5787	1.5660
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.9200	.3897	2.5337	2.5853	11.4738	34.2054	2.6537	.5862	1.5325
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.9500	.3480	2.6024	2.6435	10.1192	34.0181	2.4307	.5920	1.4984
3.5	2.2282	1.3385	1.04	.4768	2.0972	1.9800	.3016	2.6740	2.7048	8.6617	34.1892	2.2077	.5959	1.4632
3.5	2.2282	1.3385	1.04	.4768	2.0972	2.0100	.2495	2.7489	2.7700	7.0745	35.0364	1.9847	.5975	1.4268
3.5	2.2282	1.3385	1.04	.4768	2.0972	2.0400	.1897	2.8280	2.8402	5.3124	37.3763	1.7617	.5964	1.3887
3.5	2.2282	1.3385	1.04	.4768	2.0972	2.0700	.1182	2.9124	2.9172	3.2687	44.1852	1.5387	.5923	1.3482
3.5	2.2282	1.3385	1.08	.5072	1.9714	.5100	.0607	.4840	.4874	6.7821	87.6743	12.9884	.1647	3.1958
3.5	2.2282	1.3385	1.08	.5072	1.9714	.5400	.2068	.5149	.5514	20.9565	82.6532	12.7568	.1686	3.1653
3.5	2.2282	1.3385	1.08	.5072	1.9714	.5700	.2830	.5461	.6098	26.4042	79.8076	12.5252	.1727	3.1348
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6000	.3400	.5777	.6640	29.5422	77.5801	12.2937	.1768	3.1045
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6300	.3865	.6096	.7152	31.5303	75.6789	12.0621	.1811	3.0738
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6600	.4259	.6418	.7639	32.8345	73.9873	11.8305	.1854	3.0433
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6900	.4600	.6744	.8105	33.6912	72.4443	11.5990	.1899	3.0128
3.5	2.2282	1.3385	1.08	.5072	1.9714	.7200	.4900	.7073	.8555	34.2359	71.0134	11.3674	.1945	2.9822
3.5	2.2282	1.3385	1.08	.5072	1.9714	.7500	.5165	.7406	.8992	34.5531	69.6709	11.1358	.1992	2.9516

3.5	2.2282	1.3385	1.08	.5072	1.9714	.5100	.0607	.4840	.4874	6.7821	87.6743	12.9884	.1647	3.1958
3.5	2.2282	1.3385	1.08	.5072	1.9714	.5400	.2068	.5149	.5514	20.9565	82.6532	12.7568	.1686	3.1653
3.5	2.2282	1.3385	1.08	.5072	1.9714	.5700	.2830	.5461	.6098	26.4042	79.8076	12.5252	.1727	3.1348
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6000	.3400	.5777	.6640	29.5422	77.5801	12.2937	.1768	3.1045
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6300	.3865	.6096	.7152	31.5303	75.6789	12.0621	.1811	3.0738
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6600	.4259	.6418	.7639	32.8345	73.9873	11.8305	.1854	3.0433
3.5	2.2282	1.3385	1.08	.5072	1.9714	.6900	.4600	.6744	.8105	33.6912	72.4443	11.5990	.1899	3.0128
3.5	2.2282	1.3385	1.08	.5072	1.9714	.7200	.4900	.7073	.8555	34.2359	71.0134	11.3674	.1945	2.9822
3.5	2.2282	1.3385	1.08	.5072	1.9714	.7500	.5165	.7406	.8992	34.5531	69.6709	11.1358	.1993	2.9517
3.5	2.2282	1.3385	1.08	.5072	1.9714	.7800	.5401	.7742	.9417	34.6987	68.4000	10.9043	.2041	2.9211
3.5	2.2282	1.3385	1.08	.5072	1.9714	.8100	.5611	.8082	.9832	34.7110	67.1886	10.6727	.2091	2.8905
3.5	2.2282	1.3385	1.08	.5072	1.9714	.8400	.5799	.8426	1.0239	34.6174	66.0276	10.4411	.2142	2.8599
3.5	2.2282	1.3385	1.08	.5072	1.9714	.8700	.5965	.8775	1.0639	34.4379	64.9099	10.2096	.2195	2.8293
3.5	2.2282	1.3385	1.08	.5072	1.9714	.9000	.6114	.9127	1.1033	34.1875	63.8298	9.9780	.2249	2.7986
3.5	2.2282	1.3385	1.08	.5072	1.9714	.9300	.6244	.9483	1.1422	33.8775	62.7828	9.7464	.2304	2.7680
3.5	2.2282	1.3385	1.08	.5072	1.9714	.9600	.6358	.9844	1.1807	33.5168	61.7652	9.5149	.2361	2.7373
3.5	2.2282	1.3385	1.08	.5072	1.9714	.9900	.6457	1.0209	1.2188	33.1123	60.7738	9.2833	.2419	2.7066
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.0200	.6541	1.0578	1.2566	32.6693	59.8062	9.0517	.2478	2.6758
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.0500	.6610	1.0952	1.2942	32.1922	58.8601	8.8202	.2538	2.6451
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.0800	.6666	1.1332	1.3316	31.6844	57.9336	8.5886	.2601	2.6143
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.1100	.6709	1.1716	1.3689	31.1485	57.0254	8.3570	.2664	2.5835
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.1400	.6738	1.2105	1.4061	30.5867	56.1340	8.1255	.2728	2.5526
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.1700	.6755	1.2499	1.4433	30.0007	55.2584	7.8939	.2795	2.5217
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.2000	.6759	1.2899	1.4805	29.3917	54.3978	7.6623	.2861	2.4908
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.2300	.6751	1.3304	1.5177	28.7607	53.5515	7.4308	.2930	2.4598
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.2600	.6730	1.3716	1.5550	28.1082	52.7191	7.1992	.2999	2.4288
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.2900	.6697	1.4133	1.5924	27.4346	51.9004	6.9676	.3069	2.3977
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.3200	.6650	1.4557	1.6300	26.7401	51.0952	6.7361	.3140	2.3665
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.3500	.6592	1.4987	1.6678	26.0246	50.3037	6.5045	.3212	2.3353
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.3800	.6520	1.5423	1.7058	25.2877	49.5265	6.2729	.3284	2.3040
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.4100	.6434	1.5867	1.7441	24.5288	48.7643	6.0414	.3356	2.2727
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.4400	.6335	1.6318	1.7827	23.7473	48.0183	5.8098	.3428	2.2412
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.4700	.6222	1.6776	1.8217	22.9420	47.2901	5.5782	.3500	2.2097
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.5000	.6094	1.7243	1.8612	22.1117	46.5819	5.3467	.3571	2.1780
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.5300	.5951	1.7717	1.9010	21.2548	45.8969	5.1151	.3642	2.1462
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.5600	.5792	1.8201	1.9415	20.3694	45.2390	4.8836	.3710	2.1143
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.5900	.5616	1.8693	1.9825	19.4531	44.6137	4.6520	.3777	2.0821
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.6200	.5421	1.9195	2.0242	18.5031	44.0284	4.4204	.3840	2.0498
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.6500	.5208	1.9708	2.0666	17.5161	43.4933	4.1889	.3900	2.0173
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.6800	.4973	2.0231	2.1099	16.4879	43.0225	3.9573	.3956	1.9845
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.7100	.4714	2.0767	2.1541	15.4135	42.6359	3.7257	.4006	1.9514
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.7400	.4431	2.1315	2.1995	14.2864	42.3629	3.4942	.4050	1.9179
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.7700	.4118	2.1876	2.2461	13.0985	42.2476	3.2626	.4085	1.8840
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.8000	.3773	2.2454	2.2942	11.8393	42.3598	3.0310	.4112	1.8495
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.8300	.3390	2.3048	2.3440	10.4939	42.8158	2.7995	.4127	1.8144
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.8600	.2960	2.3662	2.3959	9.0409	43.8253	2.5679	.4129	1.7784
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.8900	.2470	2.4298	2.4505	7.4451	45.8097	2.3363	.4116	1.7415
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.9200	.1895	2.4961	2.5083	5.6369	49.7760	2.1048	.4085	1.7028
3.5	2.2282	1.3385	1.08	.5072	1.9714	1.9500	.1161	2.5658	2.5703	3.4068	59.1128	1.8732	.4035	1.6623

3.5	2.2282	1.3385	1.12	.5407	1.8495	.5500	.1049	.5237	.5331	10.7985	86.1417	12.5224	.1635	3.4158
3.5	2.2282	1.3385	1.12	.5407	1.8495	.5800	.2129	.5548	.5911	20.1605	82.0531	12.2822	.1670	3.3821
3.5	2.2282	1.3385	1.12	.5407	1.8495	.6100	.2791	.5863	.6448	24.5888	79.4269	12.0421	.1705	3.3504
3.5	2.2282	1.3385	1.12	.5407	1.8495	.6400	.3297	.6181	.6953	27.2575	77.3194	11.8020	.1742	3.3187
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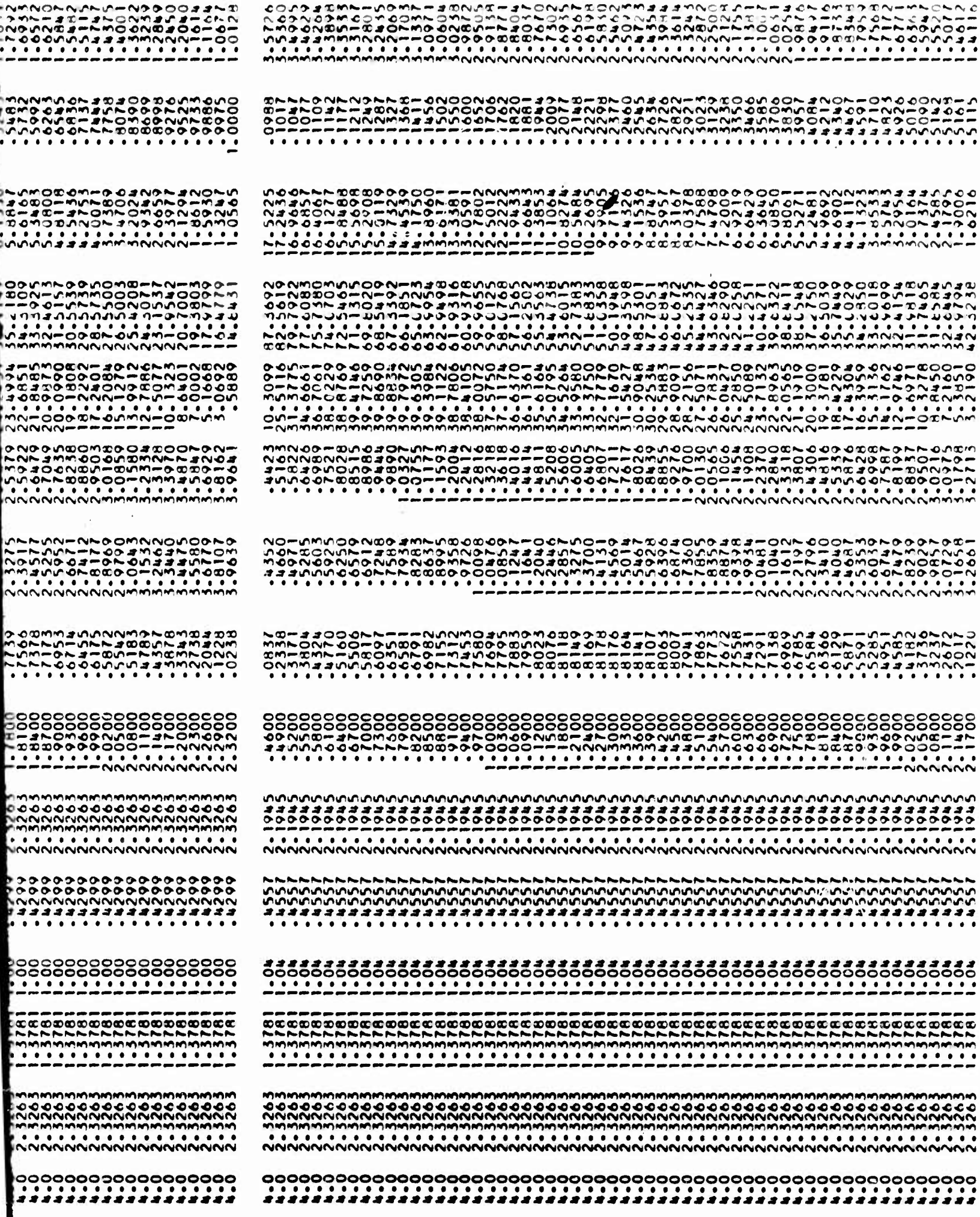
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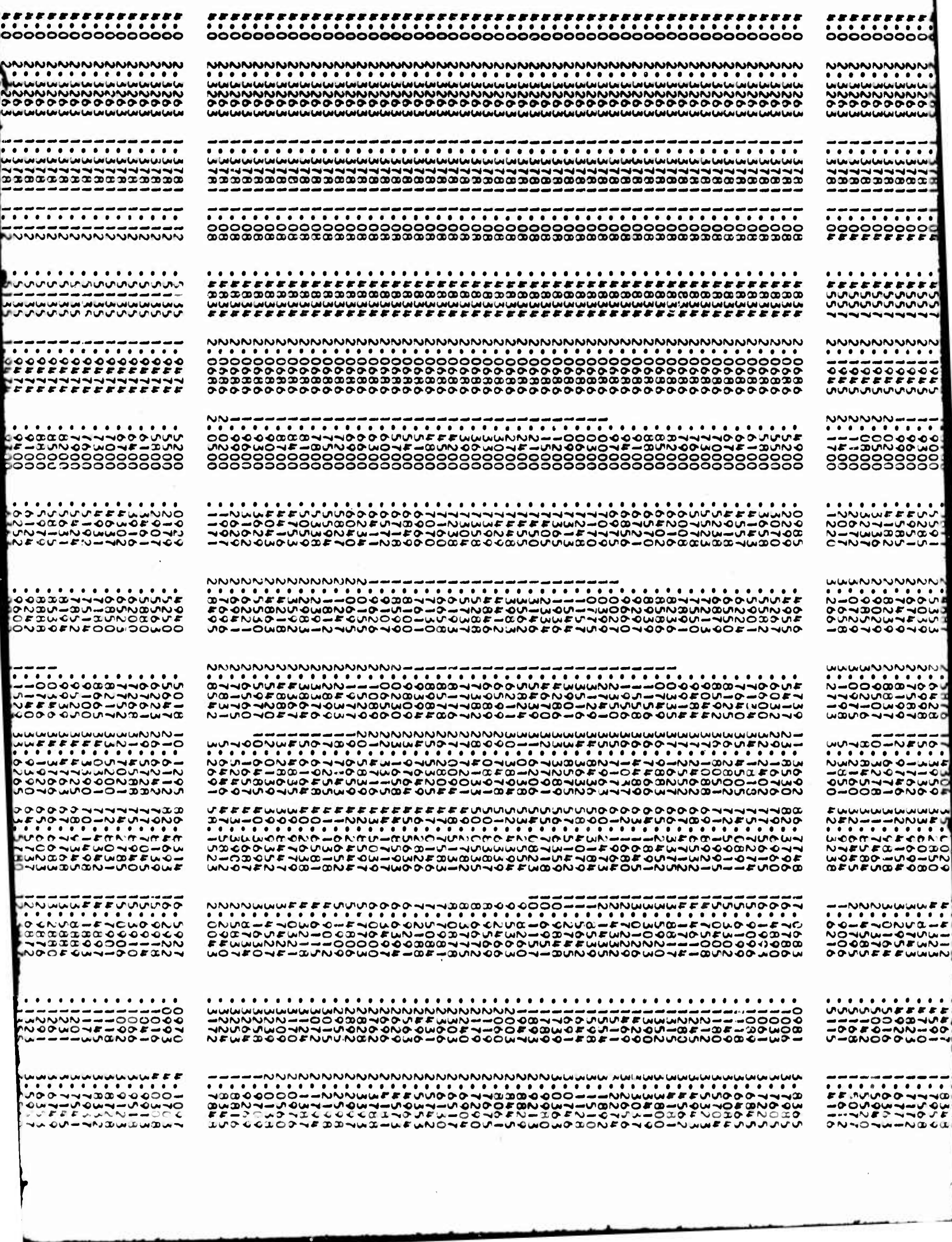
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3.5	2.2282	1.3385	1.24	.6730	1.4858	1.1000	.3732	1.1300	1.1932	18.7387	67.5017	7.1763	.1809	3.5971
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.1300	.3694	1.1668	1.2275	18.1050	67.0140	6.9105	.1821	3.5646
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.1600	.3636	1.2039	1.2617	17.4026	66.6193	6.6446	.1831	3.5339
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.1900	.3555	1.2416	1.2958	16.6324	66.3297	6.3787	.1840	3.5052
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.2200	.3451	1.2797	1.3299	15.7930	66.1620	6.1129	.1847	3.4782
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.2500	.3322	1.3183	1.3640	14.8811	66.1397	5.8470	.1851	3.4530
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.2800	.3165	1.3574	1.3983	13.8906	66.2957	5.5811	.1854	3.4295
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.3100	.2979	1.3970	1.4327	12.8114	66.6773	5.3152	.1853	3.4079
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.3400	.2757	1.4372	1.4674	11.6277	67.3552	5.0494	.1850	3.3878
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.3700	.2493	1.4780	1.5023	10.3154	68.4402	4.7835	.1844	3.3695
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.4000	.2173	1.5195	1.5377	8.8223	70.1216	4.5176	.1834	3.3529
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.4300	.1771	1.5616	1.5735	7.0587	72.7701	4.2517	.1821	3.3384
3.5	2.2282	1.3385	1.24	.6730	1.4858	1.4600	.1214	1.6044	1.6100	4.7533	77.3513	3.9859	.1803	3.3265
3.5	2.2282	1.3385	1.28	.7400	1.3514	.7400	.0046	.7161	.7161	.3598	89.7835	10.1553	.1526	4.3169
3.5	2.2282	1.3385	1.28	.7400	1.3514	.7700	.1245	.7483	.7580	9.1826	84.6753	9.8808	.1541	4.2800
3.5	2.2282	1.3385	1.28	.7400	1.3514	.8000	.1711	.7809	.7985	12.0699	81.6779	9.6064	.1555	4.2431
3.5	2.2282	1.3385	1.28	.7400	1.3514	.8300	.2033	.8137	.8378	13.7645	79.8827	9.3319	.1569	4.2062
3.5	2.2282	1.3385	1.28	.7400	1.3514	.8600	.2274	.8468	.8760	14.8141	78.4143	9.0575	.1582	4.1691
3.5	2.2282	1.3385	1.28	.7400	1.3514	.8900	.2459	.8803	.9133	15.4432	77.1685	8.7830	.1595	4.1320
3.5	2.2282	1.3385	1.28	.7400	1.3514	.9200	.2598	.9141	.9499	15.7707	76.0941	8.5086	.1607	4.0948
3.5	2.2282	1.3385	1.28	.7400	1.3514	.9500	.2700	.9483	.9858	15.8678	75.1639	8.2341	.1618	4.0575
3.5	2.2282	1.3385	1.28	.7400	1.3514	.9800	.2769	.9827	1.0212	15.7801	74.3631	7.9597	.1628	4.0201
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.0100	.2808	1.0176	1.0562	15.5383	73.6855	7.6852	.1637	3.9826
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.0400	.2818	1.0528	1.0908	15.1629	73.1310	7.4108	.1645	3.9449
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.0700	.2801	1.0884	1.1250	14.6573	72.7052	7.1363	.1652	3.9071
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.1000	.2755	1.1244	1.1591	14.0597	72.4196	6.8619	.1657	3.8692
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.1300	.2680	1.1608	1.1930	13.3429	72.2931	6.5874	.1660	3.8311
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.1600	.2575	1.1976	1.2267	12.5151	72.3541	6.3130	.1662	3.7928
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.1900	.2436	1.2348	1.2605	11.5684	72.6453	6.0385	.1661	3.7543
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.2200	.2258	1.2726	1.2942	10.4862	73.2324	5.7641	.1659	3.7155
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.2500	.2033	1.3108	1.3280	9.2371	74.2219	5.4896	.1654	3.6764
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.2800	.1744	1.3495	1.3619	7.7587	75.6045	5.2152	.1646	3.6370
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.3100	.1355	1.3887	1.3961	5.9037	78.5921	4.9407	.1636	3.5972
3.5	2.2282	1.3385	1.28	.7400	1.3514	1.3400	.0724	1.4285	1.4306	3.0919	83.4401	4.6663	.1622	3.5570
3.5	2.2282	1.3385	1.32	.8461	1.1819	.8500	.0338	.8329	.8336	2.2787	88.2217	8.9059	.1491	4.4774
3.5	2.2282	1.3385	1.32	.8461	1.1819	.8800	.0945	.8660	.8710	6.1273	84.9042	8.6229	.1499	4.4389
3.5	2.2282	1.3385	1.32	.8461	1.1819	.9100	.1227	.8995	.9076	7.6822	83.1998	8.3399	.1506	4.4003
3.5	2.2282	1.3385	1.32	.8461	1.1819	.9400	.1400	.9332	.9435	8.4691	82.0275	8.0569	.1511	4.3616
3.5	2.2282	1.3385	1.32	.8461	1.1819	.9700	.1500	.9673	.9789	8.7928	81.2017	7.7738	.1516	4.3228
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.0000	.1544	1.0018	1.0137	8.7799	80.6632	7.4908	.1519	4.2839
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.0300	.1538	1.0366	1.0481	8.4908	80.4028	7.2078	.1521	4.2447
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.0600	.1480	1.0718	1.0822	7.9493	80.4455	6.9248	.1521	4.2053
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.0900	.1367	1.1073	1.1160	7.1481	80.6575	6.6417	.1520	4.1658
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.1200	.1184	1.1433	1.1496	6.0335	81.7791	6.3587	.1517	4.1261
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.1500	.0891	1.1796	1.1831	4.4311	83.5590	6.0757	.1512	4.0861
3.5	2.2282	1.3385	1.32	.8461	1.1819	1.1800	.0229	1.2164	1.2166	1.1138	88.2696	5.7927	.1505	4.0458

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.3

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
4.0	2.3263	1.3781	1.00	.4299	2.3263	.4300	.0156	.4059	.4062	2.0750	89.5293	17.9553	.0993	3.3179
4.0	2.3263	1.3781	1.00	.4299	2.3263	.4600	.2295	.4365	.4879	26.5165	82.9892	17.6871	.1025	3.2828
4.0	2.3263	1.3781	1.00	.4299	2.3263	.4900	.3214	.4675	.5591	33.2640	80.0716	17.4188	.1057	3.2477
4.0	2.3263	1.3781	1.00	.4299	2.3263	.5200	.3901	.4988	.6236	36.8758	77.8139	17.1506	.1091	3.2126
4.0	2.3263	1.3781	1.00	.4299	2.3263	.5500	.4463	.5305	.6832	39.0604	75.8951	16.8824	.1126	3.1775
4.0	2.3263	1.3781	1.00	.4299	2.3263	.5800	.4945	.5626	.7393	40.4479	74.1910	16.6141	.1163	3.1424
4.0	2.3263	1.3781	1.00	.4299	2.3263	.6100	.5366	.5950	.7925	41.3382	72.6378	16.3459	.1202	3.1073
4.0	2.3263	1.3781	1.00	.4299	2.3263	.6400	.5741	.6278	.8435	41.8954	71.1977	16.0777	.1242	3.0722
4.0	2.3263	1.3781	1.00	.4299	2.3263	.6700	.6079	.6611	.8926	42.2176	69.8461	15.8094	.1283	3.0370
4.0	2.3263	1.3781	1.00	.4299	2.3263	.7000	.6385	.6947	.9402	42.3678	68.5659	15.5412	.1327	3.0019
4.0	2.3263	1.3781	1.00	.4299	2.3263	.7300	.6663	.7287	.9866	42.3879	67.3446	15.2730	.1372	2.9668
4.0	2.3263	1.3781	1.00	.4299	2.3263	.7600	.6917	.7632	1.0320	42.3072	66.1727	15.0047	.1419	2.9317
4.0	2.3263	1.3781	1.00	.4299	2.3263	.7900	.7150	.7981	1.0765	42.1468	65.0431	14.7365	.1469	2.8965
4.0	2.3263	1.3781	1.00	.4299	2.3263	.8200	.7363	.8335	1.1202	41.9222	63.9497	14.4682	.1520	2.8614
4.0	2.3263	1.3781	1.00	.4299	2.3263	.8500	.7559	.8694	1.1634	41.6451	62.8880	14.2000	.1574	2.8262
4.0	2.3263	1.3781	1.00	.4299	2.3263	.8800	.7738	.9057	1.2060	41.3243	61.8539	13.9318	.1631	2.7911
4.0	2.3263	1.3781	1.00	.4299	2.3263	.9100	.7901	.9425	1.2483	40.9668	60.8441	13.6635	.1690	2.7559
4.0	2.3263	1.3781	1.00	.4299	2.3263	.9400	.8051	.9799	1.2901	40.5780	59.8558	13.3953	.1751	2.7207
4.0	2.3263	1.3781	1.00	.4299	2.3263	.9700	.8186	1.0178	1.3318	40.1622	58.8867	13.1271	.1816	2.6855
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.0000	.8309	1.0562	1.3732	39.7228	57.9345	12.8588	.1883	2.6504
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.0300	.8419	1.0952	1.4145	39.2626	56.9974	12.5906	.1954	2.6152
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.0600	.8518	1.1347	1.4557	38.7840	56.0738	12.3224	.2028	2.5800
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.0900	.8605	1.1749	1.4969	38.2886	55.1621	12.0541	.2105	2.5447
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.1200	.8681	1.2157	1.5381	37.7780	54.2611	11.7859	.2187	2.5095
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.1500	.8746	1.2571	1.5793	37.2533	53.3695	11.5177	.2272	2.4743
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.1800	.8800	1.2992	1.6207	36.7156	52.4861	11.2494	.2361	2.4390
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.2100	.8845	1.3419	1.6622	36.1655	51.6100	10.9812	.2455	2.4038
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.2400	.8879	1.3854	1.7039	35.6037	50.7401	10.7130	.2554	2.3685
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.2700	.8903	1.4296	1.7459	35.0306	49.8756	10.4447	.2657	2.3332
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.3000	.8917	1.4746	1.7881	34.4465	49.0155	10.1765	.2766	2.2979
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.3300	.8921	1.5203	1.8307	33.8517	48.1590	9.9083	.2880	2.2626
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.3600	.8915	1.5669	1.8736	33.2462	47.3054	9.6400	.3000	2.2273
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.3900	.8900	1.6143	1.9169	32.6301	46.4538	9.3718	.3126	2.1919
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.4200	.8874	1.6627	1.9606	32.0032	45.6036	9.1036	.3258	2.1565
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.4500	.8839	1.7119	2.0049	31.3655	44.7538	8.8353	.3397	2.1211
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.4800	.8793	1.7621	2.0496	30.7166	43.9038	8.5671	.3543	2.0857
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.5100	.8738	1.8133	2.0950	30.0563	43.0529	8.2988	.3697	2.0502
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.5400	.8672	1.8655	2.1410	29.3842	42.2002	8.0306	.3859	2.0147
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.5700	.8595	1.9189	2.1876	28.6997	41.3450	7.7624	.4029	1.9792
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.6000	.8508	1.9733	2.2350	28.0022	40.4866	7.4941	.4208	1.9437
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.6300	.8410	2.0290	2.2831	27.2912	39.6240	7.2259	.4395	1.9081
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.6600	.8300	2.0859	2.3321	26.5658	38.7565	6.9577	.4593	1.8724
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.6900	.8179	2.1442	2.3820	25.8250	37.8831	6.6894	.4800	1.8367
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.7200	.8045	2.2038	2.4329	25.0678	37.0029	6.4212	.5017	1.8010
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.7500	.7899	2.2648	2.4849	24.2931	36.1149	6.1530	.5245	1.7651
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.7800	.7739	2.3275	2.5379	23.4994	35.2180	5.8847	.5483	1.7292
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.8100	.7566	2.3917	2.5922	22.6851	34.3109	5.6165	.5732	1.6933
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.8400	.7378	2.4577	2.6479	21.8485	33.3925	5.3483	.5992	1.6572
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.8700	.7173	2.5255	2.7049	20.9873	32.4613	5.0800	.6263	1.6210
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.9000	.6953	2.5952	2.7635	20.0990	31.5157	4.8118	.6545	1.5847
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.9300	.6714	2.6671	2.8238	19.1808	30.5539	4.5436	.6836	1.5482
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.9600	.6455	2.7412	2.8860	18.2292	29.5739	4.2753	.7137	1.5115
4.0	2.3263	1.3781	1.00	.4299	2.3263	1.9900	.6175	2.8177	2.9503	17.2401	28.5735	4.0071	.7444	1.4747
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.0200	.5872	2.8969	3.0168	16.2084	27.5500	3.7389	.7758	1.4375
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.0500	.5542	2.9790	3.0859	15.1279	26.5003	3.4706	.8074	1.4001
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.0800	.5183	3.0643	3.1580	13.9912	25.4208	3.2024	.8390	1.3622
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.1100	.4789	3.1532	3.2334	12.7886	24.3071	2.9342	.8699	1.3239
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.1400	.4357	3.2462	3.3128	11.5077	23.1537	2.6659	.8998	1.2849
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.1700	.3878	3.3440	3.3970	10.1323	21.9542	2.3977	.9276	1.2450
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.2000	.3343	3.4475	3.4870	8.6401	20.7001	2.1294	.9525	1.2040
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.2300	.2738	3.5580	3.5847	7.0002	19.3803	1.8612	.9734	1.1611
4.0	2.3263	1.3781	1.00	.4299	2.3263	2.2600	.2044	3.6773	3.7000	5.1777	17.9805	1.5930	.9888	1.1151





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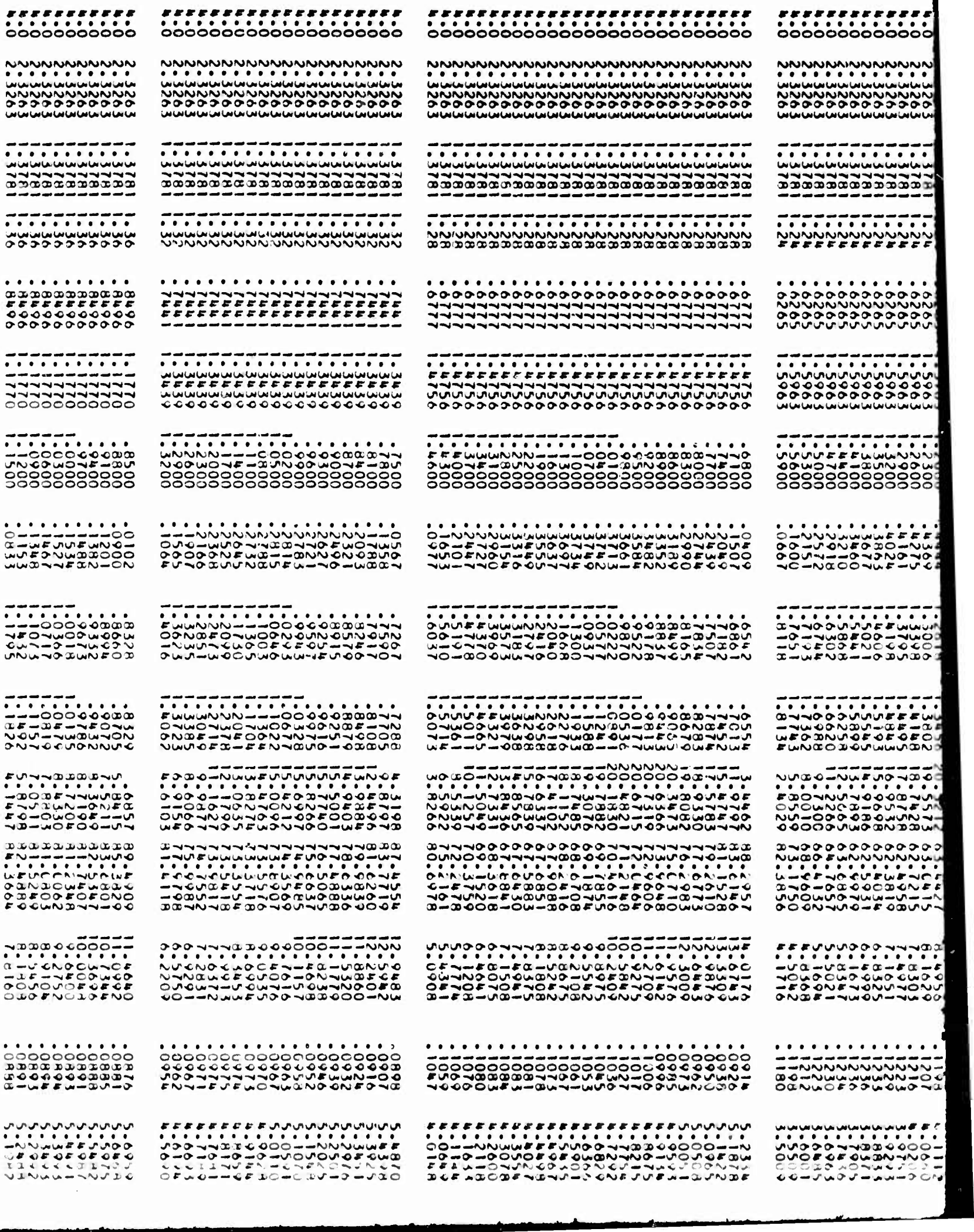
4.0	2.3263	1.3781	1.12	.5135	1.9474	.5200	.0929	.4940	.5018	10.1295	86.6314	16.5927	.0970	4.1097
4.0	2.3263	1.3781	1.12	.5135	1.9474	.5500	.2179	.5250	.5647	21.6112	82.4693	16.2922	.0993	4.0703
4.0	2.3263	1.3781	1.12	.5135	1.9474	.5800	.2907	.5563	.6223	26.6242	79.6139	15.9918	.1016	4.0308
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4.0	2.3263	1.3781	1.12	.5135	1.9474	.6400	.3916	.6200	.7268	31.4588	75.6940	15.3910	.1066	3.9518
4.0	2.3263	1.3781	1.12	.5135	1.9474	.6700	.4302	.6523	.7752	32.7021	74.2785	15.0906	.1092	3.9123
4.0	2.3263	1.3781	1.12	.5135	1.9474	.7000	.4637	.6850	.8217	33.5200	72.6031	14.7901	.1118	3.8728
4.0	2.3263	1.3781	1.12	.5135	1.9474	.7300	.4931	.7180	.8665	34.0391	71.4342	14.4897	.1145	3.8332
4.0	2.3263	1.3781	1.12	.5135	1.9474	.7600	.5192	.7514	.9100	34.3390	70.1498	14.1893	.1173	3.7937
4.0	2.3263	1.3781	1.12	.5135	1.9474	.7900	.5424	.7852	.9525	34.4725	68.9345	13.8889	.1201	3.7541
4.0	2.3263	1.3781	1.12	.5135	1.9474	.8200	.5631	.8194	.9939	34.4763	67.7768	13.5884	.1231	3.7145
4.0	2.3263	1.3781	1.12	.5135	1.9474	.8500	.5815	.8539	1.0346	34.3766	66.6683	13.2880	.1261	3.6749
4.0	2.3263	1.3781	1.12	.5135	1.9474	.8800	.5979	.8888	1.0746	34.1927	65.6023	12.9876	.1291	3.6353
4.0	2.3263	1.3781	1.12	.5135	1.9474	.9100	.6124	.9242	1.1140	33.9390	64.5737	12.6872	.1323	3.5957
4.0	2.3263	1.3781	1.12	.5135	1.9474	.9400	.6252	.9600	1.1529	33.6265	63.5780	12.3867	.1355	3.5560
4.0	2.3263	1.3781	1.12	.5135	1.9474	.9700	.6363	.9962	1.1914	33.2638	62.6121	12.0863	.1388	3.5163
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.0000	.6459	1.0328	1.2295	32.8575	61.6729	11.7859	.1422	3.4766
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.0300	.6540	1.0700	1.2674	32.4129	60.7583	11.4855	.1457	3.4369
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.0600	.6607	1.1075	1.3051	31.9342	59.8662	11.1851	.1492	3.3971
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.0900	.6660	1.1456	1.3425	31.4247	58.9951	10.8846	.1528	3.3573
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.1200	.6700	1.1842	1.3799	30.8869	58.1438	10.5842	.1565	3.3174
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.1500	.6726	1.2233	1.4172	30.3229	57.3112	10.2838	.1602	3.2776
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.1800	.6740	1.2629	1.4544	29.7343	56.4966	9.9834	.1640	3.2377
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.2100	.6741	1.3031	1.4917	29.1223	55.6995	9.6829	.1679	3.1977
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.2400	.6729	1.3438	1.5290	28.4877	54.9196	9.3825	.1718	3.1577
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.2700	.6705	1.3852	1.5663	27.8311	54.1569	9.0821	.1757	3.1176
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.3000	.6668	1.4271	1.6038	27.1527	53.4117	8.7817	.1797	3.0775
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.3300	.6617	1.4697	1.6415	26.4526	52.6844	8.4812	.1837	3.0373
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.3600	.6554	1.5129	1.6794	25.7305	51.9759	8.1808	.1878	2.9971
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.3900	.6478	1.5567	1.7175	24.9860	51.2875	7.8804	.1918	2.9567
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.4200	.6387	1.6013	1.7559	24.2183	50.6209	7.5800	.1959	2.9163
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.4500	.6283	1.6466	1.7946	23.4264	49.9785	7.2796	.1999	2.8758
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.4800	.6163	1.6927	1.8336	22.6092	49.3632	6.9791	.2038	2.8351
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.5100	.6029	1.7396	1.8731	21.7650	48.7792	6.6787	.2077	2.7943
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.5400	.5878	1.7873	1.9131	20.8918	48.2316	6.3783	.2114	2.7534
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.5700	.5710	1.8358	1.9535	19.9873	47.7274	6.0779	.2150	2.7123
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.6000	.5524	1.8853	1.9945	19.0485	47.2757	5.7774	.2184	2.6711
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.6300	.5319	1.9358	2.0362	18.0720	46.8891	5.4770	.2216	2.6296
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.6600	.5092	1.9873	2.0786	17.0531	46.5844	5.1766	.2245	2.5878
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.6900	.4842	2.0398	2.1219	15.9865	46.3853	4.8762	.2271	2.5457
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.7200	.4565	2.0936	2.1660	14.8650	46.3260	4.5757	.2292	2.5033
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.7500	.4259	2.1486	2.2113	13.6794	46.4568	4.2753	.2308	2.4604
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.7800	.3919	2.2049	2.2577	12.4171	46.8560	3.9749	.2318	2.4169
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.8100	.3538	2.2628	2.3057	11.0603	47.6514	3.6745	.2321	2.3728
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.8400	.3106	2.3224	2.3553	9.5817	49.0676	3.3741	.2315	2.3279
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.8700	.2606	2.3840	2.4070	7.9338	51.5456	3.0736	.2299	2.2819
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.9000	.2003	2.4478	2.4614	6.0167	56.1136	2.7732	.2272	2.2344
4.0	2.3263	1.3781	1.12	.5135	1.9474	1.9300	.1180	2.5144	2.5191	3.4975	66.2564	2.4728	.2232	2.1851

4.0	2.3263	1.3781	1.16	.5466	1.8294	.5500	.0633	.5234	.5269	6.5685	87.7473	16.0955	.0956	4.3921
4.0	2.3263	1.3781	1.16	.5466	1.8294	.5800	.1968	.5546	.5856	18.7426	82.6997	15.7844	.0976	4.3512
4.0	2.3263	1.3781	1.16	.5466	1.8294	.6100	.2677	.5860	.6400	23.6960	80.2000	15.4732	.0997	4.3102
4.0	2.3263	1.3781	1.16	.5466	1.8294	.6400	.3207	.6178	.6910	26.6147	78.0859	15.1621	.1018	4.2692
4.0	2.3263	1.3781	1.16	.5466	1.8294	.6700	.3636	.6499	.7395	28.4914	76.2840	14.8509	.1040	4.2282
4.0	2.3263	1.3781	1.16	.5466	1.8294	.7000	.3998	.6823	.7858	29.7346	74.6839	14.5398	.1062	4.1872
4.0	2.3263	1.3781	1.16	.5466	1.8294	.7300	.4310	.7151	.8304	30.5556	73.2281	14.2286	.1085	4.1462
4.0	2.3263	1.3781	1.16	.5466	1.8294	.7600	.4581	.7482	.8735	31.0775	71.8821	13.9175	.1108	4.1052
4.0	2.3263	1.3781	1.16	.5466	1.8294	.7900	.4818	.7816	.9155	31.3784	70.6231	13.6063	.1131	4.0641
4.0	2.3263	1.3781	1.16	.5466	1.8294	.8200	.5027	.8154	.9565	31.5101	69.4357	13.2952	.1155	4.0230
4.0	2.3263	1.3781	1.16	.5466	1.8294	.8500	.5211	.8496	.9966	31.5089	68.3085	12.9840	.1179	3.9819
4.0	2.3263	1.3781	1.16	.5466	1.8294	.8800	.5372	.8842	1.0359	31.4008	67.2329	12.6729	.1204	3.9407
4.0	2.3263	1.3781	1.16	.5466	1.8294	.9100	.5512	.9191	1.0746	31.2050	66.2025	12.3617	.1229	3.8996
4.0	2.3263	1.3781	1.16	.5466	1.8294	.9400	.5634	.9545	1.1128	30.9357	65.2122	12.0506	.1255	3.8584
4.0	2.3263	1.3781	1.16	.5466	1.8294	.9700	.5737	.9903	1.1505	30.6041	64.2581	11.7394	.1281	3.8171
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.0000	.5824	1.0265	1.1879	30.2186	63.3370	11.4283	.1307	3.7759
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.0300	.5895	1.0631	1.2249	29.7858	62.4466	11.1171	.1333	3.7345
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.0600	.5951	1.1002	1.2617	29.3109	61.5848	10.8059	.1360	3.6932
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.0900	.5992	1.1377	1.2982	28.7979	60.7505	10.4948	.1387	3.6518
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.1200	.6018	1.1757	1.3347	28.2501	59.9425	10.1836	.1414	3.6104
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.1500	.6030	1.2142	1.3710	27.6698	59.1603	9.8725	.1441	3.5689
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.1800	.6028	1.2532	1.4072	27.0589	58.4039	9.5613	.1469	3.5273
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.2100	.6011	1.2927	1.4434	26.4187	57.6734	9.2502	.1496	3.4857
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.2400	.5981	1.3327	1.4796	25.7500	56.9697	8.9390	.1523	3.4440
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.2700	.5936	1.3733	1.5159	25.0533	56.2940	8.6279	.1550	3.4022
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3000	.5878	1.4145	1.5523	24.3286	55.6479	8.3167	.1576	3.3604
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3300	.5804	1.4562	1.5889	23.5756	55.0342	8.0056	.1602	3.3184
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3600	.5715	1.4986	1.6256	22.7918	54.4559	7.6944	.1627	3.2764
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3900	.5611	1.5416	1.6625	21.9819	53.9175	7.3833	.1652	3.2342
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.4200	.5490	1.5853	1.6997	21.1385	53.4248	7.0721	.1675	3.1919
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.4500	.5353	1.6297	1.7372	20.2616	52.9850	6.7610	.1697	3.1494

4.0	2.3263	1.3781	1.16	.5466	1.8294	1.0900	.5992	1.1377	1.2982	28.7979	60.7505	10.4948	.1387	3.6515
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.1200	.6018	1.1757	1.3347	28.2501	59.4425	10.1836	.1414	3.6104
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.1500	.6030	1.2142	1.3710	27.6696	59.1603	9.8725	.1441	3.5689
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.1800	.6028	1.2532	1.4072	27.0589	58.4039	9.5613	.1469	3.5273
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.2100	.6011	1.2927	1.4434	26.4187	57.6734	9.2502	.1496	3.4857
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.2400	.5981	1.3327	1.4796	25.7500	56.9697	8.9390	.1523	3.4440
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.2700	.5936	1.3733	1.5159	25.0533	56.2940	8.6279	.1550	3.4022
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3000	.5878	1.4145	1.5523	24.3286	55.6479	8.3167	.1576	3.3604
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3300	.5804	1.4562	1.5889	23.5756	55.0342	8.0056	.1602	3.3184
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3600	.5715	1.4986	1.6256	22.7938	54.4559	7.6944	.1627	3.2764
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.3900	.5611	1.5416	1.6625	21.9819	53.9175	7.3833	.1652	3.2342
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.4200	.5490	1.5853	1.6997	21.1385	53.4248	7.0721	.1675	3.1919
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.4500	.5353	1.6297	1.7372	20.2616	52.9850	6.7610	.1697	3.1494
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.4800	.5197	1.6748	1.7750	19.3486	52.6080	6.4498	.1717	3.1068
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.5100	.5022	1.7206	1.8133	18.3964	52.3068	6.1387	.1736	3.0639
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.5400	.4826	1.7673	1.8520	17.4007	52.0988	5.8275	.1752	3.0208
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.5700	.4608	1.8148	1.8913	16.3562	52.0082	5.5164	.1766	2.9774
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.6000	.4364	1.8632	1.9313	15.2561	52.0684	5.2052	.1777	2.9337
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.6300	.4092	1.9126	1.9719	14.0912	52.3283	4.8941	.1784	2.8896
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.6600	.3786	1.9629	2.0134	12.8489	52.8611	4.5829	.1787	2.8451
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.6900	.3442	2.0145	2.0558	11.5107	53.7822	4.2717	.1785	2.8000
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.7200	.3048	2.0672	2.0994	10.0482	55.2868	3.9606	.1777	2.7542
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.7500	.2588	2.1213	2.1443	8.4114	57.7375	3.6494	.1763	2.7076
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.7800	.2026	2.1769	2.1910	6.4948	61.9263	3.3383	.1742	2.6598
4.0	2.3263	1.3781	1.16	.5466	1.8294	1.8100	.1254	2.2344	2.2397	3.9634	70.2838	3.0271	.1713	2.6107

4.0	2.3263	1.3781	1.20	.5837	1.7131	.5900	.0807	.5634	.5686	7.7898	86.9874	15.4697	.0945	4.6695
4.0	2.3263	1.3781	1.20	.5837	1.7131	.6200	.1916	.5947	.6225	17.1696	82.7397	15.1478	.0963	4.6271
4.0	2.3263	1.3781	1.20	.5837	1.7131	.6500	.2552	.6264	.6729	21.4331	80.1764	14.8259	.0981	4.5846
4.0	2.3263	1.3781	1.20	.5837	1.7131	.6800	.3029	.6583	.7207	24.0111	78.1497	14.5040	.0999	4.5421
4.0	2.3263	1.3781	1.20	.5837	1.7131	.7100	.3415	.6906	.7664	25.6886	76.4179	14.1821	.1018	4.4996
4.0	2.3263	1.3781	1.20	.5837	1.7131	.7400	.3738	.7232	.8103	26.8028	74.8802	13.8602	.1036	4.4570
4.0	2.3263	1.3781	1.20	.5837	1.7131	.7700	.4014	.7562	.8528	27.5332	73.4829	13.5384	.1055	4.4145
4.0	2.3263	1.3781	1.20	.5837	1.7131	.8000	.4251	.7895	.8940	27.9865	72.1940	13.2165	.1074	4.3719
4.0	2.3263	1.3781	1.20	.5837	1.7131	.8300	.4456	.8231	.9342	28.2316	70.9922	12.8946	.1094	4.3292
4.0	2.3263	1.3781	1.20	.5837	1.7131	.8600	.4634	.8571	.9735	28.3149	69.8630	12.5727	.1113	4.2866
4.0	2.3263	1.3781	1.20	.5837	1.7131	.8900	.4786	.8914	1.0121	28.2691	68.7959	12.2508	.1133	4.2439
4.0	2.3263	1.3781	1.20	.5837	1.7131	.9200	.4916	.9261	1.0501	28.1180	67.7832	11.9290	.1152	4.2011
4.0	2.3263	1.3781	1.20	.5837	1.7131	.9500	.5026	.9612	1.0875	27.8791	66.8191	11.6071	.1172	4.1584
4.0	2.3263	1.3781	1.20	.5837	1.7131	.9800	.5116	.9967	1.1244	27.5657	65.8995	11.2852	.1192	4.1155
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.0100	.5188	1.0327	1.1609	27.1878	65.0210	10.9633	.1212	4.0727
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.0400	.5243	1.0690	1.1971	26.7532	64.1817	10.6414	.1231	4.0297
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.0700	.5281	1.1057	1.2331	26.2679	63.3799	10.3196	.1251	3.9868
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.1000	.5303	1.1429	1.2688	25.7366	62.6150	9.9977	.1270	3.9437
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.1300	.5308	1.1805	1.3043	25.1627	61.8870	9.6758	.1289	3.9006
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.1600	.5298	1.2187	1.3398	24.5487	61.1967	9.3539	.1308	3.8574
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.1900	.5272	1.2572	1.3751	23.8965	60.5453	9.0320	.1326	3.8141
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.2200	.5231	1.2963	1.4105	23.2071	59.9353	8.7101	.1344	3.7708
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.2500	.5173	1.3359	1.4458	22.4811	59.3699	8.3883	.1361	3.7273
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.2800	.5098	1.3761	1.4812	21.7183	58.8534	8.0664	.1377	3.6837
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.3100	.5007	1.4168	1.5167	20.9180	58.3917	7.7445	.1393	3.6400
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.3400	.4898	1.4580	1.5524	20.0788	57.9926	7.4226	.1407	3.5961
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.3700	.4770	1.4999	1.5882	19.1986	57.6662	7.1007	.1419	3.5521
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.4000	.4623	1.5423	1.6243	18.2746	57.4261	6.7789	.1431	3.5078
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.4300	.4455	1.5855	1.6606	17.3027	57.2902	6.4570	.1440	3.4634
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.4600	.4263	1.6293	1.6973	16.2777	57.2832	6.1351	.1448	3.4187
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.4900	.4046	1.6738	1.7344	15.1924	57.4392	5.8132	.1453	3.3737
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.5200	.3800	1.7191	1.7720	14.0370	57.8071	5.4913	.1455	3.3283
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.5500	.3521	1.7652	1.8102	12.7976	58.4593	5.1694	.1455	3.2826
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.5800	.3201	1.8122	1.8490	11.4531	59.5090	4.8476	.1451	3.2365
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.6100	.2830	1.8601	1.8886	9.9699	61.1448	4.5257	.1443	3.1895
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.6400	.2389	1.9090	1.9292	8.2866	63.7159	4.2038	.1430	3.1420
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.6700	.1833	1.9591	1.9709	6.2644	67.4954	3.8819	.1412	3.0935
4.0	2.3263	1.3781	1.20	.5837	1.7131	1.7000	.1006	2.0105	2.0140	3.8871	76.6396	3.5600	.1389	3.0440

4.0	2.3263	1.3781	1.24	.6265	1.5963	.6300	.0562	.6034	.6058	5.0992	87.7936	14.8152	.0930	4.9550
4.0	2.3263	1.3781	1.24	.6265	1.5963	.6600	.1702	.6350	.6558	14.4612	83.2079	14.4826	.0945	4.9111
4.0	2.3263	1.3781	1.24	.6265	1.5963	.6900	.2303	.6669	.7030	18.4552	80.6538	14.1499	.0960	4.8670
4.0	2.3263	1.3781	1.24	.6265	1.5963	.7200	.2744	.6990	.7481	20.8657	78.6648	13.8173	.0975	4.8230
4.0	2.3263	1.3781	1.24	.6265	1.5963	.7500	.3096	.7315	.7914	22.4323	76.9810	13.4847	.0990	4.7789
4.0	2.3263	1.3781	1.24	.6265	1.5963	.7800	.3386	.7643	.8332	23.4669	75.4975	13.1521	.1005	4.7348
4.0	2.3263	1.3781	1.24	.6265	1.5963	.8100	.3629	.7974	.8738	24.1349	74.1596	12.8195	.1021	4.6906
4.0	2.3263	1.3781	1.24	.6265	1.5963	.8400	.3834	.8309	.9133	24.5354	72.9351	12.4869	.1036	4.6464
4.0	2.3263	1.3781	1.24	.6265	1.5963	.8700	.4007	.8647	.9520	24.7322	71.8031	12.1543	.1051	4.6022
4.0	2.3263	1.3781	1.24	.6265	1.5963	.9000	.4153	.8988	.9899	24.7687	70.7496	11.8217	.1066	4.5579
4.0	2.3263	1.3781	1.24	.6265	1.5963	.9300	.4273	.9333	1.0271	24.6756	69.7648	11.4891	.1081	4.5136
4.0	2.3263	1.3781	1.24	.6265	1.5963	.9600	.4370	.9682	1.0638	24.4752	68.8421	11.1564	.1095	4.4692
4.0	2.3263	1.3781	1.24	.6265	1.5963	.9900	.4446	1.0035	1.1000	24.1838	67.9766	10.8238	.1110	4.4247
4.0	2.3263	1.3781	1.24	.6265	1.5963	1.0200	.4502	1.0391	1.1358	23.8136	67.1656	10.4912	.1124	4.3802
4.0	2.3263	1.3781	1.24	.6265	1.5963	1.0500	.4538	1.0752	1.1713	23.3781	66.4073	10.1586	.1137	4.3356



PROPERTIES OF AN OBLIQUE DETONATION WAVE GAMMA = 1.3

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
5.0	2.4602	1.4333	1.00	.4065	2.4602	.4100	.0834	.3868	.3947	11.4922	87.6718	28.0838	.0363	4.6415
5.0	2.4602	1.4333	1.00	.4065	2.4602	.4600	.3204	.4380	.5338	34.8611	80.E985	27.4233	.0384	4.5553
5.0	2.4602	1.4333	1.00	.4065	2.4602	.5100	.4398	.4903	.6474	40.7726	77.2918	26.7628	.0407	4.4690
5.0	2.4602	1.4333	1.00	.4065	2.4602	.5600	.5284	.5436	.7474	43.3350	74.4611	26.1023	.0432	4.3827
5.0	2.4602	1.4333	1.00	.4065	2.4602	.6100	.5999	.5981	.8389	44.5236	72.0345	25.4417	.0459	4.2965
5.0	2.4602	1.4333	1.00	.4065	2.4602	.6600	.6601	.6537	.9246	45.0032	69.E638	24.7812	.0488	4.2102
5.0	2.4602	1.4333	1.00	.4065	2.4602	.7100	.7117	.7106	1.0061	45.0675	67.E723	24.1207	.0520	4.1239
5.0	2.4602	1.4333	1.00	.4065	2.4602	.7600	.7565	.7687	1.0846	44.8673	66.0139	23.4602	.0554	4.0376
5.0	2.4602	1.4333	1.00	.4065	2.4602	.8100	.7957	.8282	1.1609	44.4885	64.2585	22.7997	.0592	3.9513
5.0	2.4602	1.4333	1.00	.4065	2.4602	.8600	.8300	.8890	1.2356	43.9831	62.5850	22.1392	.0632	3.8649
5.0	2.4602	1.4333	1.00	.4065	2.4602	.9100	.8601	.9514	1.3091	43.3847	60.9777	21.4787	.0676	3.7786
5.0	2.4602	1.4333	1.00	.4065	2.4602	.9600	.8863	1.0154	1.3820	42.7154	59.4249	20.8182	.0725	3.6923
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.0100	.9091	1.0810	1.4544	41.9906	57.9172	20.1576	.0778	3.6059
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.0600	.9286	1.1483	1.5267	41.2209	56.4470	19.4971	.0835	3.5196
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.1100	.9451	1.2175	1.5991	40.4138	55.0081	18.8366	.0899	3.4332
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.1600	.9588	1.2887	1.6719	39.5747	53.5950	18.1761	.0969	3.3468
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.2100	.9697	1.3619	1.7453	38.7075	52.2031	17.5156	.1045	3.2604
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.2600	.9779	1.4374	1.8195	37.8147	50.E285	16.8551	.1130	3.1739
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.3100	.9835	1.5152	1.8947	36.8981	49.4673	16.1946	.1224	3.0875
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.3600	.9866	1.5955	1.9712	35.9586	48.1163	15.5341	.1328	3.0010
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.4100	.9872	1.6786	2.0491	34.9968	46.7721	14.8735	.1443	2.9145
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.4600	.9852	1.7645	2.1287	34.0124	45.4319	14.2130	.1572	2.8279
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.5100	.9808	1.8535	2.2102	33.0050	44.0926	13.5525	.1715	2.7413
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.5600	.9738	1.9459	2.2939	31.9736	42.7514	12.8920	.1875	2.6547
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.6100	.9642	2.0419	2.3800	30.9166	41.4051	12.2315	.2054	2.5680
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.6600	.9519	2.1417	2.4689	29.8324	40.0509	11.5710	.2255	2.4813
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.7100	.9369	2.2459	2.5609	28.7183	38.6853	10.9105	.2481	2.3945
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.7600	.9190	2.3547	2.6563	27.5715	37.3050	10.2499	.2736	2.3076
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.8100	.8980	2.4686	2.7557	26.3882	35.9061	9.5894	.3023	2.2206
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.8600	.8738	2.5880	2.8594	25.1639	34.4844	8.9289	.3348	2.1335
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.9100	.8461	2.7137	2.9680	23.8930	33.0350	8.2684	.3715	2.0462
5.0	2.4602	1.4333	1.00	.4065	2.4602	1.9600	.8146	2.8462	3.0822	22.5684	31.5523	7.6079	.4131	1.9588
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.0100	.7789	2.9864	3.2028	21.1810	30.0295	6.9474	.4600	1.8711
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.0600	.7384	3.1353	3.3307	19.7193	28.4586	6.2869	.5130	1.7830
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.1100	.6924	3.2942	3.4670	18.1678	26.8293	5.6264	.5723	1.6946
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.1600	.6400	3.4645	3.6134	16.5055	25.1287	4.9658	.6382	1.6055
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.2100	.5799	3.6483	3.7718	14.7023	23.3395	4.3053	.7103	1.5156
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.2600	.5099	3.8484	3.9452	12.7137	21.4380	3.6448	.7868	1.4244
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.3100	.4268	4.0692	4.1381	10.4680	19.3893	2.9843	.8642	1.3311
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.3600	.3250	4.3180	4.3587	7.8398	17.1389	2.3238	.9348	1.2358
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.4100	.1929	4.6108	4.6255	4.5756	14.5919	1.6633	.9852	1.1285
5.0	2.4602	1.4333	1.00	.4065	2.4602	2.4600	.0010	4.9980	4.9980	.0239	11.5513	1.0028	1.0000	1.0006
5.0	2.4602	1.4333	1.08	.4546	2.1997	.4600	.0949	.4353	.4444	11.6535	87.1525	26.9371	.0357	5.3810
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5.0	2.4602	1.4333	1.08	.4546	2.1997	.6600	.5491	.6474	.8421	39.7587	72.1721	24.0837	.0436	5.0077
5.0	2.4602	1.4333	1.08	.4546	2.1997	.7100	.6018	.7030	.9215	40.2852	70.0432	23.3704	.0459	4.9144
5.0	2.4602	1.4333	1.08	.4546	2.1997	.7600	.6464	.7597	.9974	40.3837	68.0911	22.6570	.0484	4.8210
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5.0	2.4602	1.4333	1.08	.4546	2.1997	.8600	.7172	.8769	1.1418	39.8267	64.5545	21.2303	.0538	4.6342
5.0	2.4602	1.4333	1.08	.4546	2.1997	.9100	.7451	.9373	1.2115	39.3106	62.9203	20.5170	.0568	4.5408
5.0	2.4602	1.4333	1.08	.4546	2.1997	.9600	.7688	.9992	1.2801	38.6883	61.3537	19.8036	.0600	4.4473
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.0100	.7886	1.0625	1.3480	37.9830	59.E434	19.0903	.0634	4.3539
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.0600	.8049	1.1272	1.4154	37.2105	58.3806	18.3769	.0670	4.2602
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.1100	.8178	1.1936	1.4826	36.3820	56.9584	17.6635	.0710	4.1667
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.1600	.8276	1.2616	1.5498	35.5052	55.5711	16.9502	.0751	4.0730
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.2100	.8343	1.3314	1.6172	34.5854	54.2140	16.2368	.0796	3.9794
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.2600	.8380	1.4030	1.6850	33.6263	52.E835			

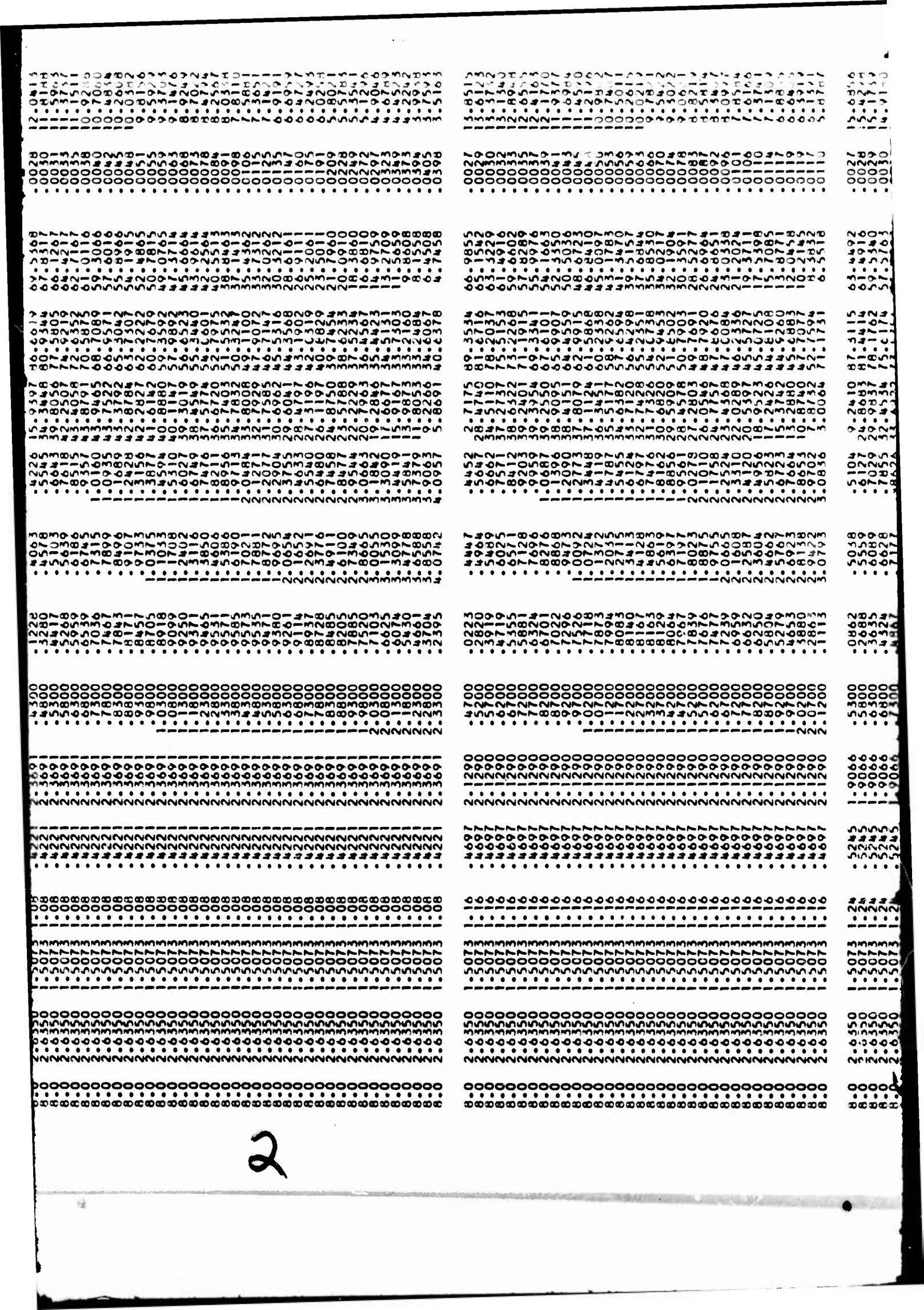
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5.0	2.4602	1.4333	1.08	.4546	2.1997	1.3100	.8387	1.4766	1.7533	32.6399	51.5765	14.8101	.0895	3.7919
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.3600	.8366	1.5523	1.8225	31.5973	50.2905	14.0968	.0950	3.6980
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.4100	.8315	1.6302	1.8926	30.5286	49.0239	13.3834	.1008	3.6040
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.4600	.8234	1.7105	1.9638	29.4229	47.7754	12.6701	.1070	3.5100
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.5100	.8123	1.7933	2.0363	28.2785	46.5445	11.9567	.1136	3.4158
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.5600	.7980	1.8788	2.1104	27.0928	45.3317	11.2434	.1208	3.3215
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.6100	.7805	1.9672	2.1861	25.8622	44.1385	10.5300	.1280	3.2270
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.6600	.7594	2.0587	2.2639	24.5821	42.9680	9.8167	.1358	3.1325
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.7100	.7345	2.1536	2.3439	23.2461	41.8255	9.1033	.1439	3.0374
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.7600	.7056	2.2522	2.4264	21.8462	40.7200	8.3899	.1523	2.9421
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.8100	.6721	2.3548	2.5119	20.3720	39.6661	7.6766	.1608	2.8464
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.8600	.6335	2.4618	2.6007	18.8095	38.6878	6.9632	.1693	2.7502
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.9100	.5890	2.5737	2.6933	17.1396	37.8264	6.2499	.1775	2.6534
5.0	2.4602	1.4333	1.08	.4546	2.1997	1.9600	.5375	2.6912	2.7905	15.3354	37.1565	5.5365	.1850	2.5554
5.0	2.4602	1.4333	1.08	.4546	2.1997	2.0100	.4772	2.8151	2.8933	13.3567	36.8241	4.8232	.1914	2.4562
5.0	2.4602	1.4333	1.08	.4546	2.1997	2.0600	.4056	2.9465	3.0031	11.1390	37.1518	4.1098	.1957	2.3548
5.0	2.4602	1.4333	1.08	.4546	2.1997	2.1100	.3177	3.0875	3.1223	8.5626	39.0078	3.3965	.1970	2.2501
5.0	2.4602	1.4333	1.08	.4546	2.1997	2.1600	.2013	3.2413	3.2554	5.3251	45.8421	2.6831	.1936	2.1395
5.0	2.4602	1.4333	1.16	.5098	1.9614	.5100	.0155	.4839	.4841	1.7375	89.5005	25.6848	.0349	6.1746
5.0	2.4602	1.4333	1.16	.5098	1.9614	.5600	.2591	.5357	.5902	24.8303	81.4537	24.9186	.0363	6.0742
5.0	2.4602	1.4333	1.16	.5098	1.9614	.6100	.3593	.5884	.6829	30.4968	77.6888	24.1524	.0378	5.9738
5.0	2.4602	1.4333	1.16	.5098	1.9614	.6600	.4313	.6420	.7670	33.1659	75.1279	23.3862	.0394	5.8733
5.0	2.4602	1.4333	1.16	.5098	1.9614	.7100	.4879	.6967	.8453	34.4969	72.7801	22.6200	.0411	5.7729
5.0	2.4602	1.4333	1.16	.5098	1.9614	.7600	.5340	.7523	.9194	35.0911	70.6941	21.8538	.0428	5.6724
5.0	2.4602	1.4333	1.16	.5098	1.9614	.8100	.5720	.8090	.9904	35.2301	68.7930	21.0876	.0447	5.5718
5.0	2.4602	1.4333	1.16	.5098	1.9614	.8600	.6036	.8668	1.0590	35.0652	67.0314	20.3214	.0466	5.4712
5.0	2.4602	1.4333	1.16	.5098	1.9614	.9100	.6298	.9257	1.1258	34.6850	65.3800	19.5553	.0486	5.3706
5.0	2.4602	1.4333	1.16	.5098	1.9614	.9600	.6511	.9859	1.1912	34.1449	63.8190	18.7891	.0507	5.2699
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.0100	.6680	1.0473	1.2556	33.4810	62.3343	18.0229	.0528	5.1691
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.0600	.6810	1.1100	1.3193	32.7173	60.9160	17.2567	.0551	5.0683
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.1100	.6901	1.1741	1.3826	31.8703	59.5569	16.4905	.0575	4.9674
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.1600	.6956	1.2397	1.4455	30.9510	58.2521	15.7243	.0599	4.8663
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.2100	.6977	1.3068	1.5084	29.9667	56.9988	14.9581	.0624	4.7652
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.2600	.6962	1.3755	1.5715	28.9219	55.7959	14.1919	.0650	4.6640
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.3100	.6912	1.4458	1.6348	27.8187	54.6442	13.4257	.0676	4.5626
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.3600	.6827	1.5180	1.6986	26.6575	53.5466	12.6595	.0703	4.4610
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.4100	.6706	1.5921	1.7630	25.4365	52.5089	11.8933	.0730	4.3592
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.4600	.6547	1.6682	1.8282	24.1523	51.5404	11.1271	.0757	4.2572
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.5100	.6347	1.7464	1.8945	22.7993	50.6553	10.3609	.0783	4.1548
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.5600	.6104	1.8270	1.9619	21.3694	49.8758	9.5947	.0808	4.0521
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.6100	.5813	1.9100	2.0307	19.8512	49.2357	8.8285	.0831	3.9489
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.6600	.5467	1.9958	2.1012	18.2285	48.7892	8.0623	.0852	3.8451
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.7100	.5058	2.0844	2.1737	16.4780	48.6256	7.2961	.0869	3.7405
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.7600	.4573	2.1763	2.2486	14.5643	48.9035	6.5299	.0881	3.6348
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.8100	.3989	2.2719	2.3264	12.4294	49.9301	5.7637	.0885	3.5277
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.8600	.3268	2.3717	2.4080	9.9641	52.3955	4.9976	.0879	3.4184
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.9100	.2310	2.4766	2.4946	6.8963	58.3143	4.2314	.0861	3.3057
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.9600	.0379	2.5880	2.5885	1.1088	83.3268	3.4652	.0825	3.1877
5.0	2.4602	1.4333	1.24	.5761	1.7357	.5800	.0652	.5533	.5568	6.4182	87.7069	23.9992	.0342	6.9791
5.0	2.4602	1.4333	1.24	.5761	1.7357	.6300	.2381	.6057	.6475	20.6998	81.4283	23.1801	.0353	6.8715
5.0	2.4602	1.4333	1.24	.5761	1.7357	.6800	.3227	.6589	.7294	25.3875	78.0848	22.3611	.0364	6.7639
5.0	2.4602	1.4333	1.24	.5761	1.7357	.7300	.3830	.7131	.8052	27.6826	75.4857	21.5421	.0376	6.6562
5.0	2.4602	1.4333	1.24	.5761	1.7357	.7800	.4293	.7681	.8768	28.8260	73.2835	20.7230	.0389	6.5485
5.0	2.4602	1.4333	1.24	.5761	1.7357	.8300	.4658	.8242	.9451	29.3004	71.3409	19.9040	.0401	6.4406
5.0	2.4602	1.4333	1.24	.5761	1.7357	.8800	.4947	.8813	1.0110	29.3426	69.5880	19.0850	.0414	6.3327
5.0	2.4602	1.4333	1.24	.5761	1.7357	.9300	.5173	.9394	1.0749	29.0840	67.9844	18.2659	.0427	6.2247
5.0	2.4602	1.4333	1.24	.5761	1.7357	.9800	.5344	.9986	1.1374	28.6035	66.5055	17.4469	.0440	6.1166
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.0300	.5465	1.0590	1.1988	27.9507	65.1362	16.6279	.0453	6.0084
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.0800	.5540	1.1205	1.2593	27.1576	63.8682	15.8088	.0466	5.9000
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.1300	.5571	1.1833	1.3193	26.2450	62.6981	14.9898	.0479	5.7915
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.1800	.5559	1.2474	1.3790	25.2259	61.6277	14.1708	.0491	5.6827
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.2300	.5504	1.3130	1.4384	24.1074	60.6636	13.3517	.0503	5.5738
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.2800	.5405	1.3799	1.4979	22.8919	59.8187	12.5327	.0515	5.4645
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.3300	.5260	1.4484	1.5576	21.5775	59.1140	11.7136	.0525	5.3550
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.3800	.5066	1.5186	1.6176	20.1574	58.5825	10.8946	.0535	5.2454
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.4300	.4818	1.5904	1.6783	18.6193	58.2756	10.0756	.0542	5.1356
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.4800	.4509	1.6641	1.7396	16.9431	58.1757	9.2565	.0548	5.0255
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.5300	.4127	1.7399	1.8020	15.0957	58.7208	8.4375	.0550	4.9115
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.5800	.3654	1.8178	1.8657	13.0209	59.8614	7.6185	.0550	4.7972
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.6300	.3053	1.8981	1.9311	10.6095	62.2094	6.7994	.0545	4.6827
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.6800	.2239	1.9811	1.9986	7.5900	67.0761	5.9804	.0534	4.5671
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.7300	.0712	2.0673	2.0681	3.3802	81.4654	5.1613	.0514	4.4501

5.0	2.4602	1.4333	1.16	.5098	1.9614	1.6100	.5813	1.9100	2.0307	19.8512	49.2357	8.8285	.0831	5.9[illegible]
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.6600	.5467	1.9958	2.1012	18.2285	48.7892	8.0623	.0852	5.8451
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.7100	.5058	2.0844	2.1737	16.4780	48.2256	7.2961	.0869	5.7[illegible]
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.7600	.4573	2.1763	2.2486	14.5643	48.9035	6.5299	.0881	5.6344
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.8100	.3989	2.2719	2.3264	12.4294	49.9301	5.7637	.0885	5.5277
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.8600	.3268	2.3717	2.4080	9.9641	52.3955	4.9976	.0879	5.4144
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.9100	.2310	2.4766	2.4946	6.8963	58.3143	4.2314	.0861	5.3057
5.0	2.4602	1.4333	1.16	.5098	1.9614	1.9600	.0379	2.5880	2.5885	1.1088	83.3268	3.4652	.0825	5.1877
5.0	2.4602	1.4333	1.24	.5761	1.7357	.5800	.0652	.5533	.5568	6.4182	87.7069	23.9992	.0342	6.9791
5.0	2.4602	1.4333	1.24	.5761	1.7357	.6300	.2381	.6057	.6475	20.6998	81.4283	23.1801	.0353	6.8715
5.0	2.4602	1.4333	1.24	.5761	1.7357	.6800	.3227	.6589	.7294	25.3875	78.6848	22.3611	.0364	6.7639
5.0	2.4602	1.4333	1.24	.5761	1.7357	.7300	.3830	.7131	.8052	27.6826	75.4857	21.5421	.0376	6.6562
5.0	2.4602	1.4333	1.24	.5761	1.7357	.7800	.4293	.7681	.8768	28.8260	73.2835	20.7230	.0389	6.5485
5.0	2.4602	1.4333	1.24	.5761	1.7357	.8300	.4658	.8242	.9451	29.3004	71.3409	19.9040	.0401	6.4406
5.0	2.4602	1.4333	1.24	.5761	1.7357	.8800	.4947	.8813	1.0110	29.3426	69.5880	19.0850	.0414	6.3327
5.0	2.4602	1.4333	1.24	.5761	1.7357	.9300	.5173	.9394	1.0749	29.0840	67.9844	18.2659	.0427	6.2247
5.0	2.4602	1.4333	1.24	.5761	1.7357	.9800	.5344	.9986	1.1374	28.6035	66.5055	17.4469	.0440	6.1166
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.0300	.5465	1.0590	1.1988	27.9507	65.1362	16.6279	.0453	6.0084
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.0800	.5540	1.1205	1.2593	27.1576	63.8682	15.8088	.0466	5.9000
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.1300	.5571	1.1833	1.3193	26.2450	62.6981	14.9898	.0479	5.7915
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.1800	.5559	1.2474	1.3790	25.2259	61.6277	14.1708	.0491	5.6827
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.2300	.5504	1.3130	1.4384	24.1074	60.6636	13.3517	.0503	5.5738
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.2800	.5405	1.3799	1.4979	22.8919	59.8187	12.5327	.0515	5.4645
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.3300	.5260	1.4484	1.5576	21.5775	59.1140	11.7136	.0525	5.3549
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.3800	.5066	1.5186	1.6176	20.1574	58.5825	10.8946	.0535	5.2449
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.4300	.4818	1.5904	1.6783	18.6193	58.2756	10.0756	.0542	5.1344
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.4800	.4509	1.6641	1.7396	16.9431	58.4757	9.2565	.0548	5.0233
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.5300	.4127	1.7399	1.8020	15.0957	58.7208	8.4375	.0550	4.9115
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.5800	.3654	1.8178	1.8657	13.0209	59.8614	7.6185	.0550	4.7982
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.6300	.3053	1.8981	1.9311	10.6095	62.2094	6.7994	.0545	4.6837
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.6800	.2239	1.9811	1.9986	7.5900	67.6761	5.9804	.0534	4.5671
5.0	2.4602	1.4333	1.24	.5761	1.7357	1.7300	.0719	2.0673	2.0691	2.3809	81.4656	5.1614	.0518	4.4475
5.0	2.4602	1.4333	1.32	.6627	1.5091	.6700	.0764	.6442	.6484	6.5068	87.6269	21.8168	.0332	7.7855
5.0	2.4602	1.4333	1.32	.6627	1.5091	.7200	.2069	.6974	.7256	16.0342	81.7170	20.9450	.0340	7.6705
5.0	2.4602	1.4333	1.32	.6627	1.5091	.7700	.2737	.7515	.7976	19.5655	78.7144	20.0731	.0348	7.5555
5.0	2.4602	1.4333	1.32	.6627	1.5091	.8200	.3195	.8065	.8655	21.2872	76.4071	19.2012	.0356	7.4403
5.0	2.4602	1.4333	1.32	.6627	1.5091	.8700	.3527	.8624	.9305	22.0670	74.4953	18.3293	.0364	7.3250
5.0	2.4602	1.4333	1.32	.6627	1.5091	.9200	.3766	.9192	.9932	22.2629	72.6618	17.4575	.0371	7.2096
5.0	2.4602	1.4333	1.32	.6627	1.5091	.9700	.3930	.9770	1.0542	22.0570	71.4515	16.5856	.0378	7.0939
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.0200	.4029	1.0359	1.1137	21.5519	70.2385	15.7137	.0385	6.9781
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.0700	.4066	1.0958	1.1723	20.8080	69.2158	14.8418	.0391	6.8620
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.1200	.4046	1.1569	1.2300	19.8604	68.3911	13.9700	.0395	6.7456
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.1700	.3966	1.2191	1.2873	18.7269	67.7879	13.0981	.0401	6.6288
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.2200	.3826	1.2826	1.3442	17.4109	67.4496	12.2262	.0404	6.5116
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.2700	.3618	1.3474	1.4010	15.9014	67.4505	11.3543	.0406	6.3939
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.3200	.3332	1.4136	1.4579	14.1681	67.9169	10.4824	.0406	6.2756
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.3700	.2949	1.4813	1.5152	12.1468	69.0788	9.6106	.0405	6.1564
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.4200	.2426	1.5505	1.5730	9.6951	71.4113	8.7387	.0401	6.0361
5.0	2.4602	1.4333	1.32	.6627	1.5091	1.4700	.1646	1.6216	1.6317	6.3874	76.2271	7.8668	.0394	5.9144
5.0	2.4602	1.4333	1.40	.8043	1.2433	.8100	.0483	.7900	.7914	3.4092	87.6229	18.5196	.0319	8.5104
5.0	2.4602	1.4333	1.40	.8043	1.2433	.8600	.1414	.8449	.8562	9.3378	83.3842	17.5949	.0323	8.3876
5.0	2.4602	1.4333	1.40	.8043	1.2433	.9100	.1813	.9007	.9184	11.2676	81.1861	16.6701	.0326	8.2645
5.0	2.4602	1.4333	1.40	.8043	1.2433	.9600	.2024	.9573	.9784	11.9077	79.7479	15.7454	.0329	8.1411
5.0	2.4602	1.4333	1.40	.8043	1.2433	1.0100	.2107	1.0149	1.0368	11.7811	78.6550	14.8207	.0331	8.0174
5.0	2.4602	1.4333	1.40	.8043	1.2433	1.0600	.2076	1.0735	1.0939	11.0822	78.4864	13.8960	.0332	7.8932
5.0	2.4602	1.4333	1.40	.8043	1.2433	1.1100	.1930	1.1331	1.1501	9.8637	78.7384	12.9713	.0332	7.7686
5.0	2.4602	1.4333	1.40	.8043	1.2433	1.1600	.1640	1.1938	1.2057	8.0471	79.6846	12.0465	.0331	7.6435
5.0	2.4602	1.4333	1.40	.8043	1.2433	1.2100	.1103	1.2557	1.2609	5.2095	82.7671	11.1218	.0328	7.5179

3

PROPERTIES OF AN OBLIQUE DETONATION WAVE GAMMA = 1.3

M1	M1•	DELMAX	DEL	XMIN	XMAX	X(M2U•)	Y(M2V•)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
8.0	2.6350	1.5073	1.00	.3795	2.6350	.3800	.0332	.3578	.3591	5.0006	89.1553	72.2017	.0028	10.3988
8.0	2.6350	1.5073	1.00	.3795	2.6350	.4300	.3310	.4089	.5160	37.5892	81.4627	70.6229	.0030	10.1929
8.0	2.6350	1.5073	1.00	.3795	2.6350	.4800	.4616	.4611	.6397	43.8780	77.9112	69.0442	.0032	9.9869
8.0	2.6350	1.5073	1.00	.3795	2.6350	.5300	.5581	.5145	.7472	46.4807	75.1504	67.4655	.0034	9.7809
8.0	2.6350	1.5073	1.00	.3795	2.6350	.5800	.6364	.5691	.8448	47.6536	72.7940	65.8868	.0037	9.5750
8.0	2.6350	1.5073	1.00	.3795	2.6350	.6300	.7025	.6249	.9359	48.1126	70.6923	64.3080	.0040	9.3690
8.0	2.6350	1.5073	1.00	.3795	2.6350	.6800	.7596	.6820	1.0225	48.1630	68.7683	62.7293	.0043	9.1630
8.0	2.6350	1.5073	1.00	.3795	2.6350	.7300	.8096	.7405	1.1058	47.9584	66.9765	61.1506	.0046	8.9571
8.0	2.6350	1.5073	1.00	.3795	2.6350	.7800	.8537	.8005	1.1868	47.5843	65.2868	59.5718	.0049	8.7511
8.0	2.6350	1.5073	1.00	.3795	2.6350	.8300	.8929	.8620	1.2662	47.0923	63.6786	57.9931	.0053	8.5451
8.0	2.6350	1.5073	1.00	.3795	2.6350	.8800	.9278	.9252	1.3444	46.5149	62.1366	56.4144	.0058	8.3391
8.0	2.6350	1.5073	1.00	.3795	2.6350	.9300	.9588	.9901	1.4220	45.8738	60.6492	54.8357	.0062	8.1331
8.0	2.6350	1.5073	1.00	.3795	2.6350	.9800	.9863	1.0567	1.4993	45.1838	59.2075	53.2569	.0068	7.9271
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.0300	1.0106	1.1254	1.5766	44.4550	57.8040	51.6782	.0074	7.7211
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.0800	1.0319	1.1961	1.6543	43.6948	56.4327	50.0995	.0080	7.5151
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.1300	1.0504	1.2690	1.7325	42.9084	55.0886	48.5207	.0088	7.3091
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.1800	1.0662	1.3442	1.8116	42.0997	53.7673	46.9420	.0096	7.1031
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.2300	1.0795	1.4219	1.8919	41.2711	52.4650	45.3633	.0105	6.8971
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.2800	1.0903	1.5023	1.9735	40.4247	51.1783	43.7846	.0116	6.6911
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.3300	1.0988	1.5856	2.0567	39.5618	49.9042	42.2058	.0128	6.4851
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.3800	1.1049	1.6720	2.1419	38.6829	48.6398	40.6271	.0142	6.2790
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.4300	1.1088	1.7617	2.2293	37.7886	47.3825	39.0484	.0157	6.0730
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.4800	1.1104	1.8551	2.3191	36.8788	46.1298	37.4696	.0175	5.8669
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.5300	1.1097	1.9523	2.4118	35.9532	44.8792	35.8909	.0196	5.6609
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.5800	1.1068	2.0539	2.5077	35.0114	43.6284	34.3122	.0220	5.4548
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.6300	1.1016	2.1601	2.6071	34.0524	42.3750	32.7335	.0248	5.2487
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.6800	1.0941	2.2714	2.7106	33.0751	41.1165	31.1547	.0281	5.0425
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.7300	1.0843	2.3883	2.8186	32.0783	39.8504	29.5760	.0320	4.8364
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.7800	1.0721	2.5114	2.9318	31.0601	38.5741	27.9973	.0365	4.6302
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.8300	1.0573	2.6415	3.0507	30.0187	37.2846	26.4185	.0420	4.4241
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.8800	1.0400	2.7792	3.1761	28.9514	35.9789	24.8398	.0486	4.2178
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.9300	1.0200	2.9255	3.3089	27.8555	34.6536	23.2611	.0565	4.0116
8.0	2.6350	1.5073	1.00	.3795	2.6350	1.9800	.9970	3.0816	3.4502	26.7273	33.3046	21.6824	.0662	3.8052
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.0300	.9710	3.2488	3.6013	25.5627	31.9275	20.1036	.0782	3.5989
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.0800	.9416	3.4286	3.7635	24.3563	30.5171	18.5249	.0931	3.3924
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.1360	.9086	3.6230	3.9389	23.1016	29.0672	16.9462	.1118	3.1858
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.1800	.8715	3.8345	4.1296	21.7903	27.5700	15.3675	.1356	2.9792
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.2300	.8298	4.0662	4.3386	20.4116	26.0162	13.7887	.1662	2.7723
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.2800	.7829	4.3219	4.5696	18.9513	24.3936	12.2100	.2060	2.5652
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.3300	.7297	4.6069	4.8276	17.3894	22.6860	10.6313	.2585	2.3578
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.3800	.6689	4.9281	5.1191	15.6974	20.8713	9.0525	.3284	2.1498
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.4300	.5983	5.2954	5.4536	13.8311	18.9172	7.4738	.4221	1.9410
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.4800	.5143	5.7234	5.8452	11.7169	16.7737	5.8951	.5474	1.7306
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.5300	.4104	6.2360	6.3176	9.2145	14.3544	4.3164	.7090	1.5172
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.5800	.2709	6.8822	6.9200	5.9933	11.4846	2.7376	.8920	1.2954
8.0	2.6350	1.5073	1.00	.3795	2.6350	2.6300	.0374	7.8497	7.8505	.8139	7.6717	1.1589	.9996	1.0347
8.0	2.6350	1.5073	1.08	.4221	2.3691	.4300	.1228	.4063	.4226	15.9397	86.6619	69.5368	.0028	12.0413
8.0	2.6350	1.5073	1.08	.4221	2.3691	.4800	.3280	.4578	.5545	34.3448	80.9344	67.8317	.0030	11.8148
8.0	2.6350	1.5073	1.08	.4221	2.3691	.5300	.4417	.5103	.6643	39.8056	77.5805	66.1267	.0031	11.5963
8.0	2.6350	1.5073	1.08	.4221	2.3691	.5800	.5268	.5639	.7618	42.2507	74.9219	64.4217	.0033	11.3757
8.0	2.6350	1.5073	1.08	.4221	2.3691	.6300	.5959	.6186	.8515	43.4058	72.6352	62.7167	.0035	11.1511
8.0	2.6350	1.5073	1.08	.4221	2.3691	.6800	.6539	.6745	.9357	43.8791	70.5875	61.0116	.0038	10.9266
8.0	2.6350	1.5073	1.08	.4221	2.3691	.7300	.7036	.7315	1.0160	43.9465	68.7089	59.3066	.0040	10.7000
8.0	2.6350	1.5073	1.08	.4221	2.3691	.7800	.7467	.7899	1.0935	43.7522	66.9571	57.6016	.0042	10.4854
8.0	2.6350	1.5073	1.08	.4221	2.3691	.8300	.7843	.8496	1.1689	43.3792	65.3042	55.8966	.0045	10.2608
8.0	2.6350	1.5073	1.08	.4221	2.3691	.8800	.8171	.9107	1.2428	42.8784	63.7307	54.1915	.0048	10.0362
8.0	2.6350	1.5073	1.08	.4221	2.3691	.9300	.8457	.9733	1.3156	42.2827	62.2222	52.4865	.0051	9.8116
8.0	2.6350	1.5073	1.08	.4221	2.3691	.9800	.8705	1.0375	1.3877	41.6142	60.7679	50.7815	.0055	9.5872
8.0	2.6350	1.5073	1.08	.4221	2.3691	1.0300	.8918	1.1033	1.4594	40.8880	59.3592	49.0765	.0059	9.3625
8.0	2.6350	1.5073	1.08	.4221	2.3691	1.0800	.9099	1.1708	1.5310	40.1147	57.9892	47.3714	.0063	9.1476
8.0	2.6350	1.5073	1.08	.4221	2.3691	1.1300	.9250	1.2402	1.6027	39.3019	56.6523	45.6664	.0068	8.9249
8.0	2.6350	1.5073	1.08	.4221	2.3691	1.1800	.9371	1.3116	1.6749	38.4549	55.3440	43.9614	.0073	8.7022
8.0	2.6350	1.5073	1.08	.4221	2.3691	1.2300	.9465	1.3850	1.7476	37.5774	54.0601	42.2564	.0078	8.4796
8.0	2.6350	1.5073	1.08	.4221	2.3691	1.2800	.9531	1.4606	1.8211	36.6720	52.7975	[illegible]	[illegible]	[illegible]



2

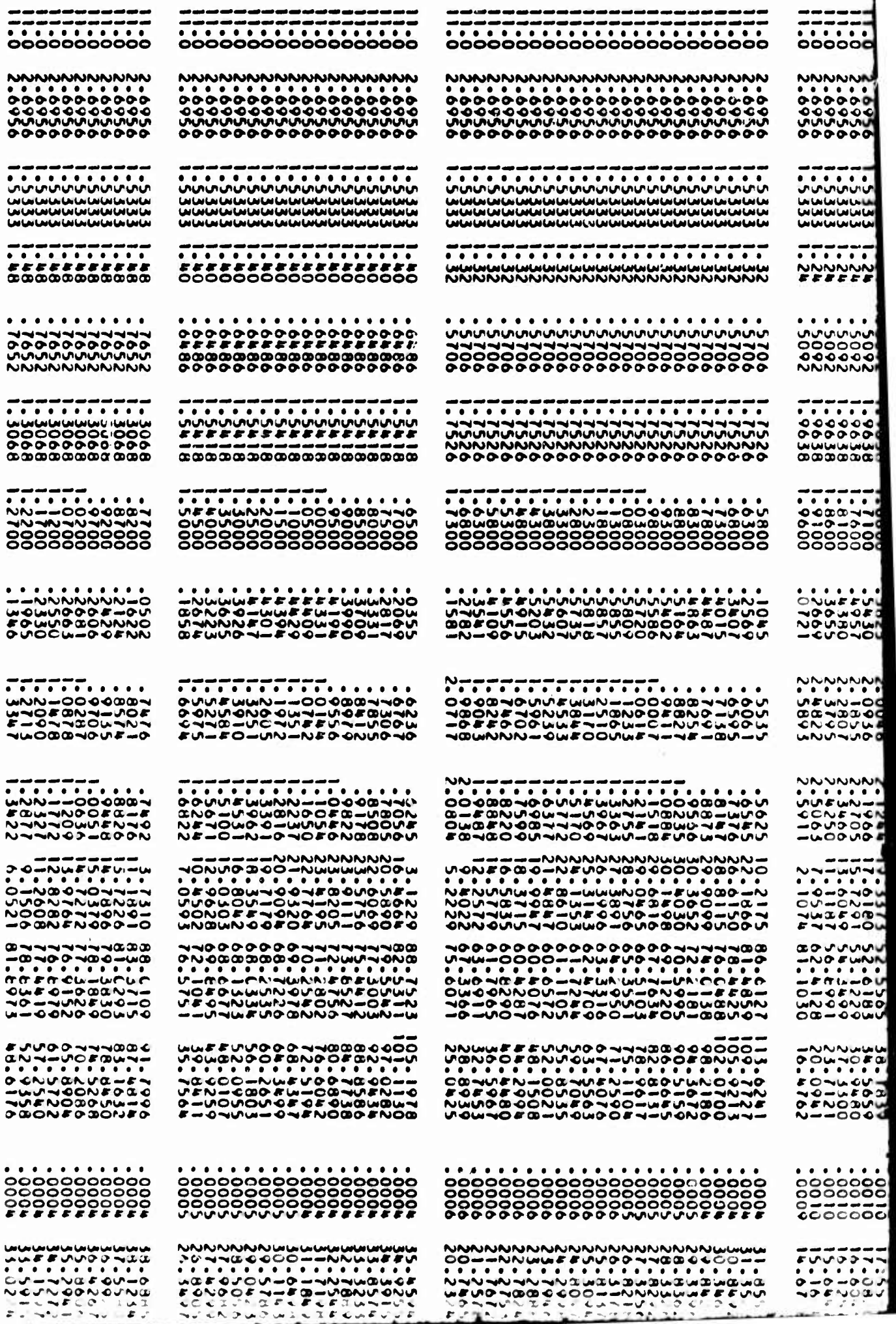
8.0	2.6350	1.5073	1.24	.5245	1.9066	.7800	.5308	.7737	.9358	34.2378	71.4980	53.6611	.0033	14.4061
8.0	2.6350	1.5073	1.24	.5245	1.9066	.8300	.5672	.8307	1.0061	34.3479	69.7362	51.7035	.0034	14.1501
8.0	2.6350	1.5073	1.24	.5245	1.9066	.8800	.5972	.8888	1.0741	34.1633	68.1092	49.7458	.0036	13.8940
8.0	2.6350	1.5073	1.24	.5245	1.9066	.9300	.6218	.9481	1.1405	33.7676	66.5912	47.7882	.0037	13.6379
8.0	2.6350	1.5073	1.24	.5245	1.9066	.9800	.6416	1.0085	1.2055	33.2133	65.1645	45.8306	.0039	13.3817
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.0300	.6571	1.0703	1.2695	32.5346	63.8172	43.8730	.0040	13.1254
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.0800	.6684	1.1334	1.3329	31.7546	62.5413	41.9153	.0042	12.8690
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.1300	.6760	1.1979	1.3958	30.8886	61.3316	39.9577	.0044	12.6126
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.1800	.6798	1.2638	1.4585	29.9469	60.1855	38.0001	.0045	12.3560
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.2300	.6800	1.3312	1.5211	28.9360	59.1028	36.0425	.0047	12.0993
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.2800	.6766	1.4003	1.5839	27.8594	58.0855	34.0849	.0049	11.8424
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.3300	.6694	1.4710	1.6469	26.7180	57.1385	32.1272	.0051	11.5853
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.3800	.6585	1.5436	1.7103	25.5107	56.2702	30.1696	.0053	11.3280
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.4300	.6437	1.6180	1.7744	24.2338	55.4933	28.2120	.0054	11.0705
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.4800	.6246	1.6944	1.8391	22.8812	54.8273	26.2544	.0056	10.8126
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.5300	.6009	1.7730	1.9048	21.4433	54.3013	24.2967	.0058	10.5543
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.5800	.5722	1.8538	1.9716	19.9064	53.9594	22.3391	.0059	10.2955
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.6300	.5375	1.9370	2.0396	18.2501	53.8717	20.3815	.0060	10.0361
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.6800	.4958	2.0228	2.1091	16.4436	54.1537	18.4239	.0061	9.7758
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.7300	.4454	2.1115	2.1803	14.4370	55.0110	16.4662	.0061	9.5143
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.7800	.3829	2.2032	2.2536	12.1413	56.6508	14.5086	.0061	9.2511
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.8300	.3018	2.2983	2.3293	9.3635	60.6363	12.5510	.0060	8.9856
8.0	2.6350	1.5073	1.24	.5245	1.9066	1.8800	.1795	2.3973	2.4082	5.4545	69.7397	10.5934	.0058	8.7163
8.0	2.6350	1.5073	1.32	.5906	1.6931	.6000	.1002	.5735	.5815	9.4845	86.6126	59.1929	.0026	17.5780
8.0	2.6350	1.5073	1.32	.5906	1.6931	.6500	.2464	.6262	.6697	20.7596	81.4740	57.1090	.0027	17.3054
8.0	2.6350	1.5073	1.32	.5906	1.6931	.7000	.3262	.6797	.7499	24.9839	78.4319	55.0251	.0028	17.0327
8.0	2.6350	1.5073	1.32	.5906	1.6931	.7500	.3835	.7342	.8246	27.0845	76.6454	52.9412	.0029	16.7600
8.0	2.6350	1.5073	1.32	.5906	1.6931	.8000	.4276	.7896	.8953	28.1247	74.6231	50.8573	.0030	16.4872
8.0	2.6350	1.5073	1.32	.5906	1.6931	.8500	.4622	.8460	.9629	28.5354	72.2455	48.7733	.0031	16.2143
8.0	2.6350	1.5073	1.32	.5906	1.6931	.9000	.4893	.9034	1.0282	28.5328	70.6514	46.6894	.0032	15.9413
8.0	2.6350	1.5073	1.32	.5906	1.6931	.9500	.5102	.9618	1.0917	28.2381	69.2056	44.6055	.0033	15.6682
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.0000	.5256	1.0214	1.1539	27.7248	67.8875	42.5216	.0034	15.3950
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.0500	.5359	1.0821	1.2149	27.0391	66.6857	40.4377	.0035	15.1216
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.1000	.5415	1.1440	1.2751	26.2104	65.5953	38.3537	.0036	14.8481
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.1500	.5426	1.2072	1.3348	25.2573	64.6172	36.2698	.0037	14.5745
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.2000	.5391	1.2717	1.3941	24.1905	63.7582	34.1859	.0037	14.3008
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.2500	.5310	1.3376	1.4532	23.0145	63.0316	32.1020	.0038	14.0271
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.3000	.5181	1.4049	1.5124	21.7283	62.4595	30.0180	.0039	13.7535
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.3500	.5001	1.4737	1.5716	20.3251	62.0766	27.9341	.0039	13.4795
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.4000	.4764	1.5442	1.6311	18.7910	61.9366	25.8502	.0040	13.2050
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.4500	.4461	1.6163	1.6911	17.1021	62.1252	23.7663	.0040	12.9299
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.5000	.4081	1.6903	1.7517	15.2182	62.7859	21.6824	.0040	12.6479
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.5500	.3598	1.7661	1.8131	13.0672	64.1789	19.5984	.0040	12.3699
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.6000	.2966	1.8441	1.8755	10.5013	66.6457	17.5145	.0040	12.0904
8.0	2.6350	1.5073	1.32	.5906	1.6931	1.6500	.2058	1.9242	1.9392	7.1094	72.2657	15.4306	.0039	11.8088
8.0	2.6350	1.5073	1.40	.6777	1.4755	.7800	.0420	.6542	.6555	3.5353	88.4445	54.1410	.0026	19.5182
8.0	2.6350	1.5073	1.40	.6777	1.4755	.8300	.1952	.7076	.7325	14.9734	82.5695	51.9308	.0026	19.2236
8.0	2.6350	1.5073	1.40	.6777	1.4755	.7800	.2637	.7618	.8042	18.6762	79.6737	49.7206	.0027	18.9289
8.0	2.6350	1.5073	1.40	.6777	1.4755	.8300	.3098	.8169	.8720	20.4663	77.4977	47.5104	.0027	18.6341
8.0	2.6350	1.5073	1.40	.6777	1.4755	.8800	.3427	.8729	.9368	21.2783	75.7254	45.3001	.0028	18.3392
8.0	2.6350	1.5073	1.40	.6777	1.4755	.9300	.3661	.9299	.9994	21.4862	74.2384	43.0899	.0028	18.0440
8.0	2.6350	1.5073	1.40	.6777	1.4755	.9800	.3816	.9879	1.0602	21.2771	72.9838	40.8797	.0029	17.7487
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.0300	.3903	1.0469	1.1195	20.7552	71.9392	38.6695	.0029	17.4532
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.0800	.3927	1.1069	1.1778	19.9800	71.1022	36.4593	.0030	17.1573
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.1300	.3887	1.1681	1.2353	18.9843	70.4874	34.2490	.0030	16.9062
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.1800	.3784	1.2305	1.2922	17.7811	70.1284	32.0388	.0030	16.6146
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.2300	.3612	1.2940	1.3487	16.3655	70.0852	29.8286	.0031	16.3226
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.2800	.3361	1.3589	1.4049	14.7116	70.4610	27.6184	.0031	16.0300
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.3300	.3012	1.4250	1.4611	12.7593	71.4403	25.4082	.0031	15.7366
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.3800	.2526	1.4926	1.5174	10.3738	73.3925	23.1979	.0030	15.4425
8.0	2.6350	1.5073	1.40	.6777	1.4755	1.4300	.1800	1.5617	1.5741	7.1742	77.2737	20.9877	.0030	15.1467
8.0	2.6350	1.5073	1.48	.8256	1.2113	.8300	.0405	.8114	.8123	2.7948	88.1629	45.4138	.0025	21.1270
8.0	2.6350	1.5073	1.48	.8256	1.2113	.8800	.1325	.8666	.8763	8.5621	84.1177	43.0773	.0025	20.8194
8.0	2.6350	1.5073	1.48	.8256	1.2113	.9300	.1690	.9227	.9378	10.2985	82.2147	40.7408	.0025	20.5124
8.0	2.6350	1.5073	1.48	.8256	1.2113	.9800	.1862	.9796	.9972	10.7569	81.0783	38.4043	.0025	20.2047
8.0	2.6350	1.5073	1.48	.8256	1.2113	1.0300	.1895	1.0376	1.0550	10.4227	80.5312	36.0677	.0025	19.8966
8.0	2.6350	1.5073	1.48	.8256	1.2113	1.0800	.1797	1.0965	1.1115	9.4452	80.6060	33.7312	.0025	19.5881
8.0	2.6350	1.5073	1.48	.8256	1.2113	1.1300	.1544	1.1564	1.1671	7.7824	81.5212	31.3947	.0025	19.2790
8.0	2.6350	1.5073	1.48	.8256	1.2113	1.1800	.1032	1.2174	1.2220	4.9984	84.1246	29.0582	.0025	18.9691

PROPERTIES OF AN OBLIQUE DETONATION WAVE GAMMA = 1.3

M1	M1•	DELMAX	DEL	XMIN	XMAX	X(M2U•)	Y(M2V•)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
11.0	2.6956	1.5333	1.00	.3710	2.6956	.3800	.1440	.3582	.3831	20.7507	86.4422	136.1254	.0004	18.7375
11.0	2.6956	1.5333	1.00	.3710	2.6956	.4300	.3641	.4095	.5367	40.2591	80.6693	133.2077	.0004	18.3569
11.0	2.6956	1.5333	1.00	.3710	2.6956	.4800	.4894	.4620	.6597	45.5529	77.5453	130.2900	.0005	17.9764
11.0	2.6956	1.5333	1.00	.3710	2.6956	.5300	.5842	.5156	.7674	47.7869	74.9022	127.3723	.0005	17.5958
11.0	2.6956	1.5333	1.00	.3710	2.6956	.5800	.6620	.5704	.8656	48.7761	72.6252	124.4546	.0005	17.2152
11.0	2.6956	1.5333	1.00	.3710	2.6956	.6300	.7281	.6266	.9576	49.1301	70.5841	121.5369	.0006	16.8346
11.0	2.6956	1.5333	1.00	.3710	2.6956	.6800	.7855	.6841	1.0452	49.1162	68.7097	118.6192	.0006	16.4540
11.0	2.6956	1.5333	1.00	.3710	2.6956	.7300	.8360	.7430	1.1296	48.8708	66.9605	115.7015	.0007	16.0734
11.0	2.6956	1.5333	1.00	.3710	2.6956	.7800	.8807	.8035	1.2119	48.4711	65.3086	112.7838	.0007	15.6928
11.0	2.6956	1.5333	1.00	.3710	2.6956	.8300	.9206	.8656	1.2926	47.9636	63.7348	109.8661	.0008	15.3122
11.0	2.6956	1.5333	1.00	.3710	2.6956	.8800	.9563	.9293	1.3724	47.3782	62.2247	106.9484	.0009	14.9316
11.0	2.6956	1.5333	1.00	.3710	2.6956	.9300	.9881	.9949	1.4516	46.7346	60.7674	104.0307	.0010	14.5510
11.0	2.6956	1.5333	1.00	.3710	2.6956	.9800	1.0165	1.0624	1.5306	46.0462	59.3543	101.1130	.0010	14.1704
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.0300	1.0417	1.1319	1.6098	45.3226	57.9784	98.1953	.0011	13.7898
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.0800	1.0639	1.2035	1.6894	44.5705	56.6340	95.2776	.0012	13.4091
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.1300	1.0834	1.2775	1.7698	43.7947	55.3162	92.3598	.0014	13.0285
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.1800	1.1003	1.3540	1.8513	42.9987	54.0208	89.4421	.0015	12.6479
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.2300	1.1147	1.4331	1.9340	42.1850	52.7443	86.5244	.0017	12.2673
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.2800	1.1267	1.5150	2.0183	41.3554	51.4833	83.6067	.0018	11.8867
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.3300	1.1364	1.6000	2.1045	40.5111	50.2350	80.6890	.0020	11.5061
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.3800	1.1438	1.6883	2.1928	39.6527	48.9967	77.7713	.0023	11.1254
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.4300	1.1490	1.7802	2.2837	38.7808	47.7659	74.8536	.0025	10.7448
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.4800	1.1520	1.8760	2.3773	37.8953	46.5402	71.9359	.0029	10.3642
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.5300	1.1528	1.9760	2.4741	36.9961	45.3173	69.0182	.0032	9.9835
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.5800	1.1514	2.0806	2.5745	36.0827	44.0949	66.1005	.0037	9.6029
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.6300	1.1479	2.1903	2.6789	35.1545	42.8709	63.1828	.0042	9.2222
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.6800	1.1422	2.3056	2.7880	34.2106	41.6430	60.2651	.0048	8.8415
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.7300	1.1342	2.4270	2.9021	33.2499	40.4089	57.3474	.0055	8.4608
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.7800	1.1240	2.5553	3.0221	32.2710	39.1661	54.4297	.0064	8.0802
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.8300	1.1114	2.6913	3.1487	31.2722	37.9121	51.5120	.0074	7.6995
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.8800	1.0965	2.8358	3.2829	30.2517	36.6440	48.5943	.0087	7.3187
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.9300	1.0790	2.9900	3.4256	29.2072	35.3589	45.6766	.0103	6.9380
11.0	2.6956	1.5333	1.00	.3710	2.6956	1.9800	1.0588	3.1553	3.5781	28.1359	34.0532	42.7588	.0124	6.5572
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.0300	1.0359	3.3332	3.7421	27.0345	32.7232	39.8411	.0149	6.1764
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.0800	1.0099	3.5257	3.9194	25.8990	31.3642	36.9234	.0182	5.7956
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.1300	.9808	3.7353	4.1123	24.7247	29.9712	34.0057	.0225	5.4148
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.1800	.9481	3.9650	4.3238	23.5056	28.5378	31.0880	.0283	5.0339
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.2300	.9116	4.2187	4.5576	22.2342	27.0563	28.1703	.0360	4.6528
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.2800	.8707	4.5016	4.8187	20.9006	25.5171	25.2526	.0467	4.2718
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.3300	.8247	4.8204	5.1135	19.4923	23.9079	22.3349	.0620	3.8905
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.3800	.7729	5.1846	5.4511	17.9915	22.2120	19.4172	.0843	3.5091
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.4300	.7139	5.6073	5.8443	16.3731	20.4067	16.4995	.1179	3.1274
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.4800	.6459	6.1080	6.3118	14.5989	18.4587	13.5818	.1708	2.7452
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.5300	.5658	6.7175	6.8834	12.6057	16.3153	10.6641	.2572	2.3621
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.5800	.4677	7.4876	7.6096	10.2748	13.6849	7.7464	.4039	1.9771
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.6300	.3383	8.5194	8.5896	7.3293	10.9766	4.8287	.6527	1.5870
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.6800	.1268	10.1131	10.1244	2.7094	7.0171	1.9110	.9698	1.1694
11.0	2.6956	1.5333	1.08	.4119	2.4275	.4200	.1266	.3967	.4143	16.7716	86.6676	131.8306	.0004	21.7759
11.0	2.6956	1.5333	1.08	.4119	2.4275	.4700	.3356	.4481	.5507	35.5294	81.0204	128.6794	.0004	21.3648
11.0	2.6956	1.5333	1.08	.4119	2.4275	.5200	.4519	.5006	.6633	40.9944	77.7062	125.5283	.0005	20.9537
11.0	2.6956	1.5333	1.08	.4119	2.4275	.5700	.5393	.5543	.7630	43.4158	75.0785	122.3772	.0005	20.5425
11.0	2.6956	1.5333	1.08	.4119	2.4275	.6200	.6103	.6090	.8545	44.5490	72.6184	119.2261	.0005	20.1314
11.0	2.6956	1.5333	1.08	.4119	2.4275	.6700	.6702	.6649	.9405	45.0066	70.2948	116.0750	.0006	19.7203
11.0	2.6956	1.5333	1.08	.4119	2.4275	.7200	.7216	.7221	1.0224	45.0643	68.0384	112.9238	.0006	19.3091
11.0	2.6956	1.5333	1.08	.4119	2.4275	.7700	.7664	.7806	1.1014	44.8655	67.2076	109.7727	.0006	18.8979
11.0	2.6956	1.5333	1.08	.4119	2.4275	.8200	.8056	.8405	1.1783	44.4924	65.5748	106.6216	.0007	18.4867
11.0	2.6956	1.5333	1.08	.4119	2.4275	.8700	.8400	.9018	1.2536	43.9953	64.0206	103.4705	.0007	18.0756
11.0	2.6956	1.5333	1.08	.4119	2.4275	.9200	.8702	.9647	1.3279	43.4067	62.5309	100.3193	.0008	17.6644
11.0	2.6956	1.5333	1.08	.4119	2.4275	.9700	.8966	1.0292	1.4015	42.7482	61.0949	97.1682	.0008	17.2532
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.0200	.9195	1.0954	1.4748	42.0348	59.7041	94.0171	.0009	16.8419
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.0700	.9393	1.1634	1.5480	41.2768	58.3517	90.8660	.0010	16.4307
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.1200	.9560	1.2333	1.6214	40.4818	57.0322	87.7149	.0010	16.0194
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.1700	.9694	1.3052	1.6953	39.6564	55.7410	84.5638	.0011	15.6082

11.0	2.6956	1.5333	1.00	.3710	2.6956	2.5800	.4677	7.4876	7.6096	10.2748	13.6849	7.7464	.4039	1.9771
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.6300	.3383	8.5194	8.5896	7.3293	10.9766	4.8287	.6527	1.5870
11.0	2.6956	1.5333	1.00	.3710	2.6956	2.6800	.1268	10.1131	10.1244	2.7094	7.6171	1.9110	.9698	1.1694
11.0	2.6956	1.5333	1.08	.4119	2.4275	.4200	.1266	.3967	.4143	16.7716	86.6676	131.8306	.0004	21.7759
11.0	2.6956	1.5333	1.08	.4119	2.4275	.4700	.3356	.4481	.5507	35.5294	81.6204	128.6794	.0004	21.3648
11.0	2.6956	1.5333	1.08	.4119	2.4275	.5200	.4519	.5006	.6633	40.9944	77.7062	125.5283	.0005	20.9537
11.0	2.6956	1.5333	1.08	.4119	2.4275	.5700	.5393	.5543	.7630	43.4158	75.6785	122.3772	.0005	20.5425
11.0	2.6956	1.5333	1.08	.4119	2.4275	.6200	.6103	.6090	.8545	44.5490	72.8184	119.2261	.0005	20.1314
11.0	2.6956	1.5333	1.08	.4119	2.4275	.6700	.6702	.6649	.9405	45.0066	70.7948	116.0750	.0006	19.7203
11.0	2.6956	1.5333	1.08	.4119	2.4275	.7200	.7216	.7221	1.0224	45.0643	68.9384	112.9238	.0006	19.3091
11.0	2.6956	1.5333	1.08	.4119	2.4275	.7700	.7664	.7806	1.1014	44.8655	67.2076	109.7727	.0006	18.8979
11.0	2.6956	1.5333	1.08	.4119	2.4275	.8200	.8056	.8405	1.1783	44.4924	65.5748	106.6216	.0007	18.4867
11.0	2.6956	1.5333	1.08	.4119	2.4275	.8700	.8400	.9018	1.2536	43.9953	64.0206	103.4705	.0007	18.0756
11.0	2.6956	1.5333	1.08	.4119	2.4275	.9200	.8702	.9647	1.3279	43.4067	62.5309	100.3193	.0008	17.6644
11.0	2.6956	1.5333	1.08	.4119	2.4275	.9700	.8966	1.0292	1.4015	42.7482	61.0949	97.1682	.0008	17.2532
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.0200	.9195	1.0954	1.4748	42.0348	59.7041	94.0171	.0009	16.8419
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.0700	.9393	1.1634	1.5480	41.2768	58.3517	90.8660	.0010	16.4307
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.1200	.9560	1.2333	1.6214	40.4818	57.0322	87.7149	.0010	16.0194
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.1700	.9698	1.3052	1.6952	39.6549	55.7409	84.5637	.0011	15.6082
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.2200	.9809	1.3792	1.7698	38.8001	54.4738	81.4126	.0012	15.1969
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.2700	.9894	1.4556	1.8452	37.9197	53.2277	78.2615	.0013	14.7856
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.3200	.9953	1.5344	1.9217	37.0157	51.9996	75.1104	.0014	14.3742
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.3700	.9986	1.6158	1.9995	36.0889	50.7869	71.9592	.0015	13.9629
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.4200	.9995	1.7000	2.0789	35.1399	49.5875	68.8081	.0017	13.5515
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.4700	.9978	1.7872	2.1601	34.1684	48.3994	65.6570	.0018	13.1401
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.5200	.9937	1.8776	2.2433	33.1740	47.2209	62.5059	.0020	12.7286
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.5700	.9870	1.9715	2.3288	32.1556	46.0505	59.3548	.0022	12.3171
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.6200	.9777	2.0692	2.4168	31.1118	44.8870	56.2036	.0024	11.9055
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.6700	.9658	2.1709	2.5078	30.0408	43.7295	53.0525	.0026	11.4938
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.7200	.9511	2.2771	2.6020	28.9400	42.5775	49.9014	.0029	11.0821
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.7700	.9335	2.3881	2.6998	27.8064	41.4308	46.7503	.0032	10.6703
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.8200	.9128	2.5043	2.8017	26.6362	40.2898	43.5991	.0035	10.2584
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.8700	.8889	2.6264	2.9081	25.4246	39.1559	40.4480	.0039	9.8464
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.9200	.8615	2.7549	3.0196	24.1658	38.0319	37.2969	.0043	9.4340
11.0	2.6956	1.5333	1.08	.4119	2.4275	1.9700	.8302	2.8906	3.1368	22.8522	36.9223	34.1458	.0048	9.0215
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.0200	.7946	3.0342	3.2605	21.4740	35.8352	30.9947	.0054	8.6088
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.0700	.7542	3.1867	3.3916	20.0183	34.7843	27.8435	.0060	8.1956
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.1200	.7080	3.3493	3.5311	18.4676	33.7935	24.6924	.0066	7.7818
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.1700	.6550	3.5234	3.6804	16.7966	32.9063	21.5413	.0073	7.3673
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.2200	.5935	3.7108	3.8411	14.9675	32.2075	18.3902	.0080	6.9516
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.2700	.5207	3.9138	4.0154	12.9182	31.6819	15.2390	.0087	6.5340
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.3200	.4314	4.1354	4.2063	10.5337	32.4075	12.0879	.0092	6.1129
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.3700	.3139	4.3807	4.4190	7.5442	35.4962	8.9368	.0093	5.6849
11.0	2.6956	1.5333	1.08	.4119	2.4275	2.4200	.1102	4.6597	4.6646	2.6080	57.6238	5.7857	.0086	5.2387
11.0	2.6956	1.5333	1.16	.4574	2.1862	.4600	.0665	.4351	.4396	8.2237	88.1361	127.1622	.0004	25.0422
11.0	2.6956	1.5333	1.16	.4574	2.1862	.5100	.2955	.4867	.5625	30.0907	81.5648	123.7777	.0004	24.6005
11.0	2.6956	1.5333	1.16	.4574	2.1862	.5600	.4065	.5393	.6664	35.9767	78.1819	120.3932	.0004	24.1588
11.0	2.6956	1.5333	1.16	.4574	2.1862	.6100	.4880	.5929	.7593	38.6619	75.5420	117.0086	.0005	23.7170
11.0	2.6956	1.5333	1.16	.4574	2.1862	.6600	.5533	.6476	.8450	39.9727	73.2886	113.6241	.0005	23.2753
11.0	2.6956	1.5333	1.16	.4574	2.1862	.7100	.6075	.7033	.9257	40.5509	71.2812	110.2395	.0005	22.8335
11.0	2.6956	1.5333	1.16	.4574	2.1862	.7600	.6534	.7603	1.0026	40.6885	69.4473	106.8550	.0005	22.3918
11.0	2.6956	1.5333	1.16	.4574	2.1862	.8100	.6928	.8184	1.0769	40.5394	67.7436	103.4705	.0006	21.9500
11.0	2.6956	1.5333	1.16	.4574	2.1862	.8600	.7266	.8778	1.1491	40.1921	66.1420	100.0859	.0006	21.5081
11.0	2.6956	1.5333	1.16	.4574	2.1862	.9100	.7555	.9385	1.2198	39.7016	64.6230	96.7014	.0006	21.0663
11.0	2.6956	1.5333	1.16	.4574	2.1862	.9600	.7803	1.0006	1.2895	39.1033	63.1725	93.3169	.0007	20.6244
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.0100	.8011	1.0642	1.3583	38.4209	61.7799	89.9323	.0007	20.1825
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.0600	.8184	1.1293	1.4268	37.6708	60.4371	86.5478	.0008	19.7406
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.1100	.8323	1.1961	1.4950	36.8643	59.1379	83.1632	.0008	19.2986
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.1600	.8431	1.2645	1.5632	36.0094	57.8775	79.7787	.0009	18.8566
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.2100	.8508	1.3347	1.6317	35.1117	56.6520	76.3942	.0009	18.4145
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.2600	.8555	1.4069	1.7005	34.1748	55.4586	73.0096	.0010	17.9724
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.3100	.8573	1.4811	1.7700	33.2011	54.2952	69.6251	.0010	17.5302
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.3600	.8562	1.5574	1.8403	32.1915	53.1607	66.2405	.0011	17.0879
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.4100	.8521	1.6359	1.9115	31.1464	52.0546	62.8560	.0012	16.6456
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.4600	.8451	1.7169	1.9838	30.0649	50.9773	59.4715	.0012	16.2033
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.5100	.8351	1.8005	2.0575	28.9454	49.9304	56.0869	.0013	15.7609
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.5600	.8220	1.8868	2.1327	27.7853	48.9168	52.7024	.0014	15.3178
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.6100	.8056	1.9760	2.2096	26.5810	47.9410	49.3178	.0015	14.8749
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.6600	.7857	2.0684	2.2884	25.3276	47.0101	45.9333	.0016	14.4318
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.7100	.7620	2.1642	2.3694	24.0189	46.1547	42.5488	.0017	13.9884
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.7600	.7343	2.2637	2.4528	22.6463	45.3307	39.1642	.0018	13.5448
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.8100	.7020	2.3671	2.5390	21.1987	44.6224	35.7797	.0019	13.1008
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.8600	.6645	2.4749	2.6281	19.6607	44.0480	32.3952	.0020	12.6560
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.9100	.6210	2.5874	2.7207	18.0106	43.6702	29.0106	.0021	12.2106
11.0	2.6956	1.5333	1.16	.4574	2.1862	1.9600	.5700	2.7050	2.8171	16.2166	43.5981	25.6261	.0021	11.7641
11.0	2.6956	1.5333	1.16	.4574	2.1862	2.0100	.5096	2.8284	2.9179	14.2275	44.0385	22.2415	.0022	11.3162
11.0	2.6956	1.5333	1.16	.4574	2.1862	2.0600	.4361	2.9582	3.0238	11.9532	45.4370	18.8570	.0022	10.8659
11.0	2.6956	1.5333	1.16	.4574	2.1862	2.1100	.3417	3.0954	3.1357	9.2000	48.4769	15.4725	.0023	10.4111

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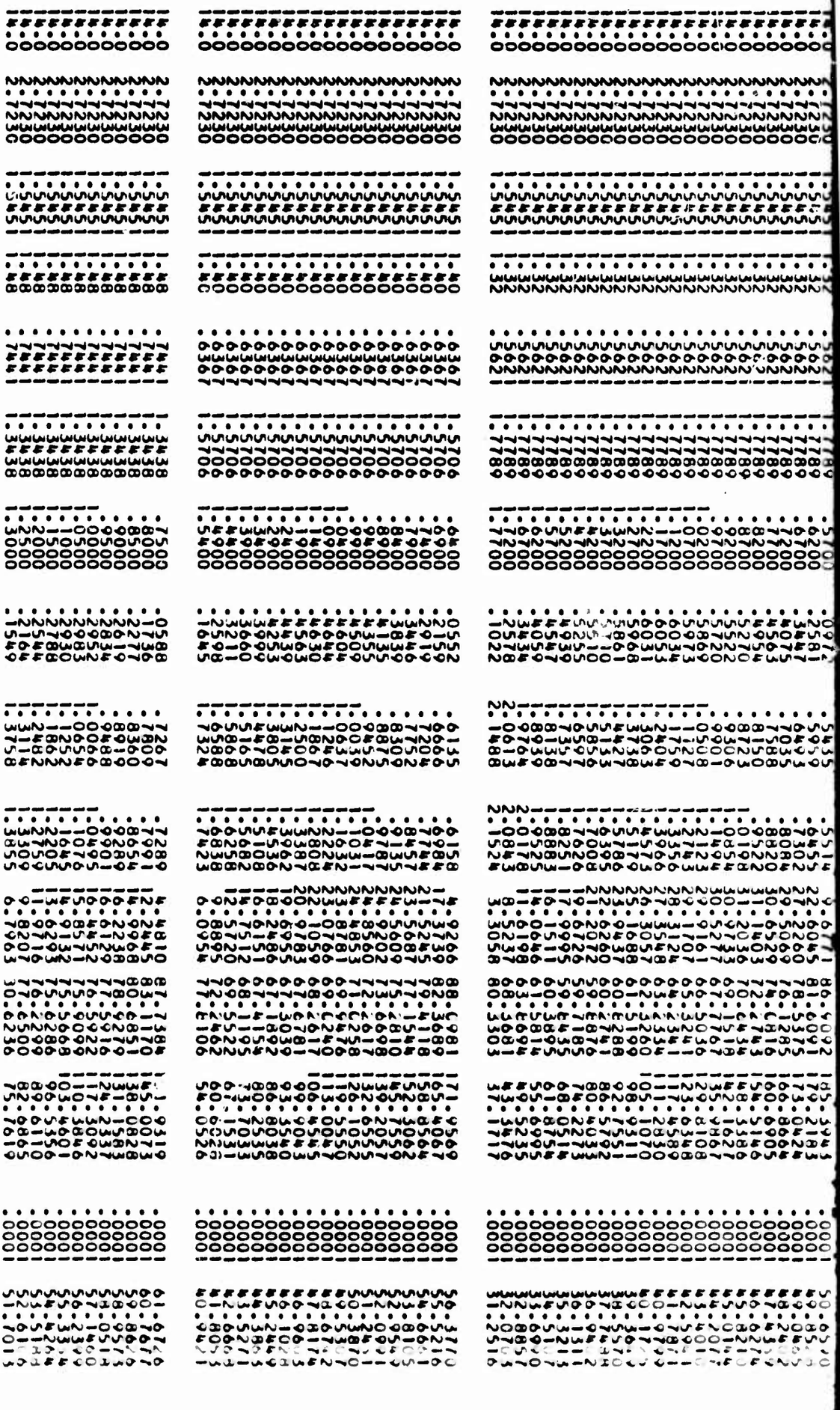
PROPERTIES OF AN OBLIQUE DETONATION WAVE GAMMA = 1.3

M1	M1•	DELMAX	DEL	XMIN	XMAX	X(M2U•)	Y(M2V•)	M2U	M2	THETA	SIGMA	PR21	PIR21	IR21
14.0	2.7230	1.5451	1.00	.3672	2.7230	.3700	.0803	.3483	.3564	12.2387	88.0464	221.1773	.0001	29.8316
14.0	2.7230	1.5451	1.00	.3672	2.7230	.4200	.3476	.3995	.5186	39.6147	81.4159	216.4986	.0001	29.2213
14.0	2.7230	1.5451	1.00	.3672	2.7230	.4700	.4799	.4518	.6456	45.5944	77.9763	211.8198	.0001	28.6111
14.0	2.7230	1.5451	1.00	.3672	2.7230	.5200	.5785	.5052	.7558	48.0487	75.2861	207.1411	.0001	28.00[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.5700	.6588	.5600	.8559	49.1354	72.9849	202.4623	.0001	27.3905
14.0	2.7230	1.5451	1.00	.3672	2.7230	.6200	.7270	.6160	.9493	49.5407	70.9302	197.7836	.0001	26.78[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.6700	.7861	.6734	1.0381	49.5575	69.0484	193.1048	.0001	26.169[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.7200	.8380	.7322	1.1236	49.3325	67.2955	188.4261	.0001	25.55[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.7700	.8841	.7926	1.2068	48.9476	65.6426	183.7473	.0002	24.94[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.8200	.9253	.8546	1.2885	48.4519	64.0696	179.0686	.0002	24.33[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.8700	.9621	.9183	1.3691	47.8764	62.5618	174.3899	.0002	23.72[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.9200	.9950	.9838	1.4491	47.2418	61.1078	169.7111	.0002	23.11[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	.9700	1.0244	1.0512	1.5289	46.5620	59.6990	165.0324	.0002	22.50[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.0200	1.0506	1.1207	1.6089	45.8469	58.3282	160.3536	.0002	21.89[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.0700	1.0739	1.1924	1.6893	45.1033	56.9897	155.6749	.0003	21.28[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.1200	1.0943	1.2664	1.7705	44.3363	55.6783	150.9961	.0003	20.67[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.1700	1.1122	1.3429	1.8528	43.5495	54.3901	146.3174	.0003	20.0670
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.2200	1.1276	1.4220	1.9364	42.7454	53.1213	141.6387	.0004	19.4567
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.2700	1.1405	1.5041	2.0216	41.9259	51.8687	136.9599	.0004	18.8464
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.3200	1.1512	1.5893	2.1088	41.0923	50.6293	132.2812	.0005	18.2361
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.3700	1.1596	1.6778	2.1981	40.2453	49.4006	127.6024	.0005	17.6258
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.4200	1.1658	1.7699	2.2900	39.3855	48.1799	122.9237	.0006	17.0155
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.4700	1.1698	1.8660	2.3848	38.5129	46.9650	118.2449	.0006	16.4052
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.5200	1.1717	1.9664	2.4828	37.6274	45.7537	113.5662	.0007	15.794[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.5700	1.1715	2.0715	2.5846	36.7288	44.5436	108.8874	.0008	15.184[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.6200	1.1691	2.1818	2.6906	35.8164	43.3328	104.2087	.0009	14.574[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.6700	1.1646	2.2977	2.8012	34.8894	42.1190	99.5300	.0011	13.96[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.7200	1.1578	2.4200	2.9172	33.9470	40.9000	94.8512	.0013	13.35[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.7700	1.1489	2.5493	3.0393	32.9880	39.6734	90.1725	.0015	12.74[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.8200	1.1377	2.6864	3.1682	32.0108	38.4369	85.4937	.0017	12.13[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.8700	1.1242	2.8324	3.3049	31.0138	37.1878	80.8150	.0020	11.52[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.9200	1.1083	2.9884	3.4505	29.9950	35.9232	76.1362	.0024	10.91[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	1.9700	1.0898	3.1557	3.6064	28.9521	34.6401	71.4575	.0029	10.3017
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.0200	1.0687	3.3362	3.7743	27.8821	33.3348	66.7788	.0036	9.6913
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.0700	1.0448	3.5318	3.9562	26.7818	32.0034	62.1000	.0044	9.0809
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.1200	1.0179	3.7452	4.1545	25.6470	30.6410	57.4213	.0055	8.47[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.1700	.9877	3.9796	4.3724	24.4729	29.2422	52.7425	.0070	7.8600
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.2200	.9539	4.2392	4.6140	23.2532	27.8000	48.0638	.0090	7.24[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.2700	.9162	4.5296	4.8847	21.9802	26.3064	43.3850	.0119	6.63[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.3200	.8741	4.8582	5.1916	20.6437	24.7506	38.7063	.0161	6.02[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.3700	.8267	5.2352	5.5446	19.2304	23.1189	34.0275	.0225	5.41[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.4200	.7733	5.6752	5.9579	17.7217	21.3928	29.3488	.0326	4.80[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.4700	.7125	6.1999	6.4527	16.0908	19.5460	24.6701	.0494	4.19[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.5200	.6422	6.8437	7.0624	14.2960	17.5392	19.9913	.0792	3.58[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.5700	.5588	7.6648	7.8438	12.2670	15.3079	15.3126	.1365	2.97[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.6200	.4556	8.7722	8.9038	9.8647	12.7334	10.6338	.2584	2.35[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.6700	.3151	10.4110	10.4832	6.7306	9.5396	5.9551	.5419	1.73[illegible]
14.0	2.7230	1.5451	1.00	.3672	2.7230	2.7200	.0369	13.5940	13.5953	.7782	4.5703	1.2763	.9984	1.05[illegible]
14.0	2.7230	1.5451	1.08	.4075	2.4538	.4100	.0707	.3867	.3924	9.7906	88.1666	214.3650	.0001	34.6572
14.0	2.7230	1.5451	1.08	.4075	2.4538	.4600	.3225	.4381	.5350	35.0372	81.5078	209.3120	.0001	33.99[illegible]
14.0	2.7230	1.5451	1.08	.4075	2.4538	.5100	.4450	.4905	.6509	41.1088	78.0907	204.2590	.0001	33.33[illegible]
14.0	2.7230	1.5451	1.08	.4075	2.4538	.5600	.5358	.5439	.7528	43.7353	75.4215	199.2059	.0001	32.68[illegible]
14.0	2.7230	1.5451	1.08	.4075	2.4538	.6100	.6092	.5986	.8460	44.9622	73.1402	194.1529	.0001	32.0211
14.0	2.7230	1.5451	1.08	.4075	2.4538	.6600	.6709	.6544	.9332	45.4707	71.1048	189.0998	.0001	31.3611
14.0	2.7230	1.5451	1.08	.4075	2.4538	.7100	.7240	.7115	1.0162	45.5596	69.2419	184.0468	.0001	30.7011
14.0	2.7230	1.5451	1.08	.4075	2.4538	.7600	.7702	.7699	1.0962	45.3822	67.5079	178.9937	.0001	30.0411
14.0	2.7230	1.5451	1.08	.4075	2.4538	.8100	.8107	.8297	1.1739	45.0252	65.8740	173.9407	.0001	29.3811
14.0	2.7230	1.5451	1.08	.4075	2.4538	.8600	.8463	.8910	1.2501	44.5414	64.3203	168.8877	.0002	28.7210
14.0	2.7230	1.5451	1.08	.4075	2.4538	.9100	.8777	.9538	1.3252	43.9645	62.8323	163.8346	.0002	28.0610
14.0	2.7230	1.5451	1.08	.4075	2.4538	.9600	.9052	1.0184	1.3995	43.3169	61.3989	158.7816	.0002	27.4009
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.0100	.9292	1.0844	1.4735	42.6142	60.0113	153.7285	.0002	26.7409
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.0600	.9500	1.1524	1.5475	41.8670	58.6628	[illegible]	[illegible]	[illegible]

14.0	2.7230	1.5451	1.08	.4075	2.4538	.4100	.0707	.3867	.3924	9.7906	88.1666	214.3650	.0001	34.6579
14.0	2.7230	1.5451	1.08	.4075	2.4538	.4600	.3225	.4381	.5350	35.0372	81.5078	209.3120	.0001	33.9988
14.0	2.7230	1.5451	1.08	.4075	2.4538	.5100	.4450	.4905	.6509	41.1088	78.0907	204.2590	.0001	33.3396
14.0	2.7230	1.5451	1.08	.4075	2.4538	.5600	.5358	.5439	.7528	43.7353	75.4215	199.2059	.0001	32.6804
14.0	2.7230	1.5451	1.08	.4075	2.4538	.6100	.6092	.5986	.8460	44.9622	73.1402	194.1529	.0001	32.0211
14.0	2.7230	1.5451	1.08	.4075	2.4538	.6600	.6709	.6544	.9332	45.4707	71.1048	189.0998	.0001	31.3619
14.0	2.7230	1.5451	1.08	.4075	2.4538	.7100	.7240	.7115	1.0162	45.5596	69.2419	184.0468	.0001	30.7027
14.0	2.7230	1.5451	1.08	.4075	2.4538	.7600	.7702	.7699	1.0962	45.3822	67.5079	178.9937	.0001	30.0435
14.0	2.7230	1.5451	1.08	.4075	2.4538	.8100	.8107	.8297	1.1739	45.0252	65.8740	173.9407	.0001	29.3843
14.0	2.7230	1.5451	1.08	.4075	2.4538	.8600	.8463	.8910	1.2501	44.5414	64.3203	168.8877	.0002	28.7250
14.0	2.7230	1.5451	1.08	.4075	2.4538	.9100	.8777	.9538	1.3252	43.9645	62.8323	163.8346	.0002	28.0658
14.0	2.7230	1.5451	1.08	.4075	2.4538	.9600	.9052	1.0183	1.3995	43.3169	61.3989	158.7816	.0002	27.4065
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.0100	.9292	1.0844	1.4735	42.6142	60.0113	153.7285	.0002	26.7472
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.0600	.9500	1.1524	1.5475	41.8670	58.6628	148.6755	.0002	26.0879
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.1100	.9677	1.2223	1.6216	41.0831	57.3476	143.6224	.0002	25.4286
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.1600	.9826	1.2942	1.6962	40.2679	56.0609	138.5694	.0003	24.7693
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.2100	.9948	1.3684	1.7714	39.4253	54.7989	133.5164	.0003	24.1100
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.2600	1.0043	1.4448	1.8476	38.5581	53.5581	128.4633	.0003	23.4506
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.3100	1.0113	1.5237	1.9249	37.6680	52.3355	123.4103	.0003	22.7913
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.3600	1.0158	1.6052	2.0036	36.7562	51.1285	118.3572	.0003	22.1319
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.4100	1.0178	1.6896	2.0838	35.8232	49.9349	113.3042	.0004	21.4725
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.4600	1.0173	1.7770	2.1659	34.8692	48.7526	108.2511	.0004	20.8130
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.5100	1.0144	1.8677	2.2501	33.8936	47.5799	103.1981	.0004	20.1535
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.5600	1.0090	1.9619	2.3366	32.8958	46.4151	98.1450	.0005	19.4940
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.6100	1.0011	2.0600	2.4258	31.8745	45.2570	93.0920	.0005	18.8344
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.6600	.9907	2.1621	2.5179	30.8281	44.1044	88.0390	.0006	18.1748
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.7100	.9775	2.2688	2.6134	29.7544	42.9565	82.9859	.0007	17.5151
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.7600	.9616	2.3804	2.7126	28.6509	41.8127	77.9329	.0007	16.8555
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.8100	.9428	2.4974	2.8159	27.5143	40.6730	72.8798	.0008	16.1958
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.8600	.9209	2.6204	2.9240	26.3405	39.5380	67.8268	.0009	15.5361
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.9100	.8957	2.7499	3.0372	25.1246	38.4091	62.7737	.0010	14.8763
14.0	2.7230	1.5451	1.08	.4075	2.4538	1.9600	.8669	2.8866	3.1564	23.8603	37.2892	57.7207	.0011	14.2165
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.0100	.8342	3.0316	3.2823	22.5396	36.1832	52.6677	.0013	13.5566
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.0600	.7970	3.1856	3.4157	21.1520	35.0998	47.6146	.0014	12.8967
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.1100	.7548	3.3500	3.5578	19.6837	34.0540	42.5616	.0016	12.2364
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.1600	.7066	3.5260	3.7099	18.1154	33.0721	37.5085	.0018	11.5756
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.2100	.6512	3.7156	3.8736	16.4194	32.2031	32.4555	.0020	10.9079
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.2600	.5867	3.9209	4.0509	14.5524	31.5457	27.4024	.0022	10.2433
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.3100	.5097	4.1447	4.2444	12.4418	31.3238	22.3494	.0024	9.5776
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.3600	.4137	4.3909	4.4579	9.9439	32.1615	17.2964	.0026	8.9072
14.0	2.7230	1.5451	1.08	.4075	2.4538	2.4100	.2822	4.6654	4.6973	6.6780	36.6788	12.2433	.0026	8.2277

14.0	2.7230	1.5451	1.16	.4521	2.2119	.4600	.1173	.4354	.4493	14.3004	86.7551	205.8684	.0001	39.7059
14.0	2.7230	1.5451	1.16	.4521	2.2119	.5100	.3130	.4871	.5715	31.5384	81.1844	200.4411	.0001	38.9917
14.0	2.7230	1.5451	1.16	.4521	2.2119	.5600	.4209	.5398	.6752	36.9313	77.9281	195.0138	.0001	38.2876
14.0	2.7230	1.5451	1.16	.4521	2.2119	.6100	.5014	.5935	.7682	39.4197	75.3509	189.5864	.0001	37.5774
14.0	2.7230	1.5451	1.16	.4521	2.2119	.6600	.5663	.6483	.8541	40.6281	73.1380	184.1591	.0001	36.8713
14.0	2.7230	1.5451	1.16	.4521	2.2119	.7100	.6204	.7042	.9351	41.1460	71.1601	178.7317	.0001	36.1651
14.0	2.7230	1.5451	1.16	.4521	2.2119	.7600	.6664	.7612	1.0124	41.2461	69.3493	173.3044	.0001	35.4589
14.0	2.7230	1.5451	1.16	.4521	2.2119	.8100	.7059	.8195	1.0871	41.0728	67.6645	167.8770	.0001	34.7466
14.0	2.7230	1.5451	1.16	.4521	2.2119	.8600	.7400	.8791	1.1598	40.7103	66.0788	162.4497	.0001	34.0344
14.0	2.7230	1.5451	1.16	.4521	2.2119	.9100	.7693	.9401	1.2310	40.2107	64.5734	157.0224	.0001	33.3221
14.0	2.7230	1.5451	1.16	.4521	2.2119	.9600	.7944	1.0025	1.3012	39.6078	63.1347	151.5950	.0002	32.6214
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.0100	.8157	1.0663	1.3706	38.9243	61.7524	146.1677	.0002	31.9155
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.0600	.8334	1.1317	1.4396	38.1760	60.4187	140.7403	.0002	31.2091
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.1100	.8479	1.1988	1.5085	37.3737	59.1275	135.3130	.0002	30.4967
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.1600	.8591	1.2676	1.5774	36.5252	57.8738	129.8856	.0002	29.7843
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.2100	.8674	1.3382	1.6466	35.6357	56.6539	124.4583	.0002	29.0714
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.2600	.8728	1.4108	1.7162	34.7089	55.4648	119.0310	.0002	28.3713
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.3100	.8752	1.4855	1.7865	33.7471	54.3046	113.6036	.0002	27.6647
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.3600	.8748	1.5623	1.8576	32.7514	53.1716	108.1763	.0002	26.9541
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.4100	.8716	1.6415	1.9298	31.7220	52.0653	102.7489	.0003	26.2453
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.4600	.8654	1.7231	2.0031	30.6583	50.9858	97.3216	.0003	25.5305
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.5100	.8564	1.8074	2.0778	29.5590	49.9340	91.8942	.0003	24.8272
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.5600	.8443	1.8945	2.1541	28.4217	48.9122	86.4669	.0003	24.1116
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.6100	.8290	1.9846	2.2322	27.2432	47.9238	81.0396	.0003	23.4023
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.6600	.8103	2.0780	2.3123	26.0194	46.9745	75.6122	.0004	22.6992
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.7100	.7881	2.1748	2.3947	24.7445	46.0727	70.1849	.0004	21.9900
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.7600	.7620	2.2755	2.4796	23.4112	45.2311	64.7575	.0004	21.2844
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.8100	.7316	2.3802	2.5673	22.0098	44.4686	59.3302	.0004	20.5711
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.8600	.6964	2.4893	2.6581	20.5271	43.8149	53.9028	.0005	19.8544
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.9100	.6556	2.6033	2.7524	18.9452	43.3172	48.4755	.0005	19.1400
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.9600	.6081	2.7225	2.8506	17.2378	43.0554	43.0482	.0005	18.4357
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.0100	.5523	2.8476	2.9532	15.3648	43.1744	37.6208	.0005	17.7242
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.0600	.4854	2.9792	3.0608	13.2593	43.9654	32.1935	.0005	17.0099
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.1100	.4022	3.1181	3.1742	10.7923	46.1165	26.7661	.0005	16.2885
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.1600	.2897	3.2653	3.2946	7.6580	51.6077	21.3388	.0005	15.5648
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.2100	.0551	3.4226	3.4237	1.4283	80.1754	15.9114	.0005	14.8353

14.0	2.7230	1.5451	1.16	.4521	2.2119	1.7100	.7881	2.1748	2.3947	24.7445	46.0727	70.1849	.0004	21.9[illegible]
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.7600	.7620	2.2755	2.4796	23.4112	45.2311	68.7575	.0004	21.28[illegible]
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.8100	.7316	2.3802	2.5673	22.0098	44.4686	59.3302	.0004	20.57[illegible]
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.8600	.6964	2.4893	2.6581	20.5271	43.6149	53.9028	.0005	19.85[illegible]
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.9100	.6556	2.6033	2.7524	18.9452	43.3172	48.4755	.0005	19.14[illegible]
14.0	2.7230	1.5451	1.16	.4521	2.2119	1.9600	.6081	2.7225	2.8506	17.2378	43.0554	43.0482	.0005	18.43[illegible]
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.0100	.5523	2.8476	2.9532	15.3648	43.1744	37.6208	.0005	17.7222
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.0600	.4854	2.9792	3.0608	13.2593	43.9654	32.1935	.0005	17.0009
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.1100	.4022	3.1181	3.1742	10.7923	46.1165	26.7661	.0005	16.2885
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.1600	.2897	3.2653	3.2946	7.6380	51.6077	21.3388	.0005	15.5648
14.0	2.7230	1.5451	1.16	.4521	2.2119	2.2100	.0551	3.4226	3.4237	1.4283	80.1754	15.9114	.0005	14.8305
14.0	2.7230	1.5451	1.24	.5027	1.9894	.5100	.1040	.4842	.4942	11.5214	86.9252	196.6232	.0001	45.0913
14.0	2.7230	1.5451	1.24	.5027	1.9894	.5600	.2855	.5362	.6018	27.0105	81.3899	190.8216	.0001	44.3342
14.0	2.7230	1.5451	1.24	.5027	1.9894	.6100	.3836	.5891	.6960	32.1662	78.1933	185.0200	.0001	43.5771
14.0	2.7230	1.5451	1.24	.5027	1.9894	.6600	.4559	.6430	.7815	34.6365	75.6741	179.2183	.0001	42.8199
14.0	2.7230	1.5451	1.24	.5027	1.9894	.7100	.5134	.6979	.8613	35.8697	73.5192	173.4167	.0001	42.06[illegible]
14.0	2.7230	1.5451	1.24	.5027	1.9894	.7600	.5606	.7539	.9368	36.4132	71.6009	167.6150	.0001	41.3054
14.0	2.7230	1.5451	1.24	.5027	1.9894	.8100	.6000	.8110	1.0092	36.5277	69.8523	161.8134	.0001	40.5482
14.0	2.7230	1.5451	1.24	.5027	1.9894	.8600	.6330	.8692	1.0793	36.3546	68.2335	156.0118	.0001	39.7908
14.0	2.7230	1.5451	1.24	.5027	1.9894	.9100	.6606	.9286	1.1475	35.9775	66.7186	150.2101	.0001	39.0335
14.0	2.7230	1.5451	1.24	.5027	1.9894	.9600	.6835	.9893	1.2144	35.4489	65.2900	144.4085	.0001	38.2761
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.0100	.7020	1.0513	1.2803	34.8030	63.9352	138.6068	.0001	37.5186
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.0600	.7167	1.1146	1.3455	34.0629	62.6454	132.8052	.0001	36.7611
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.1100	.7276	1.1794	1.4102	33.2441	61.4144	127.0035	.0001	36.0034
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.1600	.7350	1.2457	1.4747	32.3575	60.2382	121.2019	.0002	35.2458
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.2100	.7389	1.3136	1.5391	31.4101	59.1144	115.4003	.0002	34.4880
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.2600	.7394	1.3832	1.6037	30.4064	58.0425	109.5986	.0002	33.7301
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.3100	.7366	1.4545	1.6686	29.3487	57.0235	103.7970	.0002	32.9720
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.3600	.7304	1.5277	1.7340	28.2374	56.0605	97.9953	.0002	32.2139
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.4100	.7206	1.6028	1.8000	27.0712	55.1591	92.1937	.0002	31.4555
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.4600	.7073	1.6800	1.8668	25.8472	54.3277	86.3920	.0002	30.6969
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.5100	.6901	1.7594	1.9345	24.5606	53.5792	80.5904	.0002	29.9381
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.5600	.6687	1.8412	2.0032	23.2040	52.9325	74.7888	.0002	29.1789
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.6100	.6429	1.9254	2.0733	21.7673	52.4158	68.9871	.0002	28.4193
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.6600	.6119	2.0123	2.1447	20.2360	52.0720	63.1855	.0002	27.6592
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.7100	.5751	2.1020	2.2177	18.5890	51.9687	57.3838	.0002	26.8984
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.7600	.5312	2.1948	2.2926	16.7951	52.2182	51.5822	.0002	26.1368
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.8100	.4784	2.2908	2.3695	14.8038	53.0212	45.7805	.0002	25.3738
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.8600	.4132	2.3904	2.4487	12.5255	54.7774	39.9789	.0002	24.6091
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.9100	.3288	2.4939	2.5306	9.7681	58.4380	34.1773	.0002	23.8417
14.0	2.7230	1.5451	1.24	.5027	1.9894	1.9600	.2030	2.6016	2.6155	5.9132	67.2996	28.3756	.0002	23.0677
14.0	2.7230	1.5451	1.32	.5621	1.7789	.5700	.0972	.5435	.5514	9.6771	86.9092	185.3943	.0001	50.65[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	.6200	.2581	.5959	.6455	22.6045	81.6091	179.2183	.0001	49.85[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	.6700	.3447	.6493	.7302	27.2260	78.5375	173.0424	.0001	49.04[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	.7200	.4075	.7035	.8084	29.5069	76.1285	166.8664	.0001	48.24[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	.7700	.4563	.7588	.8820	30.6529	74.0816	160.6905	.0001	47.43[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	.8200	.4954	.8150	.9522	31.1403	72.2743	154.5146	.0001	46.6274
14.0	2.7230	1.5451	1.32	.5621	1.7789	.8700	.5270	.8723	1.0198	31.2036	70.6434	148.3386	.0001	45.821[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	.9200	.5522	.9306	1.0854	30.9733	69.1518	142.1627	.0001	45.0144
14.0	2.7230	1.5451	1.32	.5621	1.7789	.9700	.5720	.9901	1.1494	30.5277	67.7767	135.9867	.0001	44.2077
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.0200	.5869	1.0508	1.2123	29.9161	66.5036	129.8108	.0001	43.401[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.0700	.5973	1.1127	1.2743	29.1707	65.3241	123.6348	.0001	42.59[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.1200	.6034	1.1759	1.3356	28.3124	64.2341	117.4589	.0001	41.7871
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.1700	.6053	1.2404	1.3966	27.3548	63.2334	111.2830	.0001	40.9727
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.2200	.6031	1.3063	1.4573	26.3057	62.3260	105.1070	.0001	40.17[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.2700	.5968	1.3738	1.5179	25.1688	61.5199	98.9311	.0001	39.36[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.3200	.5861	1.4427	1.5786	23.9437	60.8288	92.7551	.0001	38.55[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.3700	.5710	1.5133	1.6395	22.6260	60.2741	86.5792	.0001	37.74[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.4200	.5510	1.5856	1.7008	21.2072	59.8876	80.4033	.0001	36.94[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.4700	.5255	1.6597	1.7626	19.6726	59.7185	74.2273	.0001	36.1311
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.5200	.4939	1.7357	1.8251	17.9995	59.8435	68.0514	.0001	35.3213
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.5700	.4547	1.8138	1.8883	16.1511	60.3895	61.8754	.0001	34.51[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.6200	.4059	1.8939	1.9525	14.0646	61.5814	55.6995	.0001	33.69[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.6700	.3434	1.9764	2.0178	11.6198	63.6694	49.5235	.0001	32.8857
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.7200	.2578	2.0613	2.0843	8.5237	68.3681	43.3476	.0001	32.07[illegible]
14.0	2.7230	1.5451	1.32	.5621	1.7789	1.7700	.1022	2.1488	2.1524	3.3058	80.3303	37.1717	.0001	31.2516
14.0	2.7230	1.5451	1.40	.6367	1.5706	.6400	.0552	.6135	.6158	4.9266	88.0981	171.9569	.0001	56.377[illegible]
14.0	2.7230	1.5451	1.40	.6367	1.5706	.6900	.2159	.6666	.6984	17.3739	82.3689	165.4067	.0001	55.521[illegible]
14.0	2.7230	1.5451	1.40	.6367	1.5706	.7400	.2919	.7204	.7744	21.5245	79.4118	158.8564	.0001	54.66[illegible]
14.0	2.7230	1.5451	1.40	.6367	1.5706	.7900	.3446	.7752	.8457	23.5687	77.1544	152.3062	.0001	53.81[illegible]
14.0	2.7230	1.5451	1.40	.6367	1.5706	.8400	.3839	.8309	.9135	24.5609	75.2810	145.7559	.0001	52.95[illegible]
14.0	2.7230	1.5451	1.40	.6367	1.5706	.8900	.4135	.8875	.9787	24.9202	73.6698	139.2057	.0001	52.0921
14.0	2.7230	1.5451	1.40	.6367	1.5706	.9400	.4355	.9452	1.0417	24.8560	72.2617	132.6555	.0001	51.2401
14.0	2.7230	1.5451	1.40	.6367	1.5706	.9900	.4509	1.0039	1.1031	24.4853	71.0258	126.1052	.0001	50.3870
14.0	2.7230	1.5451	1.40	.6367	1.5706	1.0400	.4604	1.0637	1.1632	23.8781	69.9476	119.5550	.0001	49.53[illegible]
14.0	2.7230	1.5451	1.40	.6367	1.5706	1.0900	.4644	1.1246	1.2224	23.0766	69.1240	113.0047	.0001	48.67[illegible]



APPENDIX I

PROPERTIES OF AN OBLIQUE DETONATION WAVE

GAMMA = 1.2

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
1.5	1.4214	1.0625	1.00	.7035	1.4214	.7100	.0505	.6931	.6949	4.0668	85.5411	2.3514	.9234	1.1686
1.5	1.4214	1.0625	1.00	.7035	1.4214	.7600	.1414	.7452	.7579	10.5392	77.9331	2.2564	.9336	1.1584
1.5	1.4214	1.0625	1.00	.7035	1.4214	.8100	.1832	.7977	.8179	12.7454	73.1186	2.1614	.9433	1.1482
1.5	1.4214	1.0625	1.00	.7035	1.4214	.8600	.2084	.8508	.8754	13.6207	69.6361	2.0664	.9524	1.1378
1.5	1.4214	1.0625	1.00	.7035	1.4214	.9100	.2230	.9045	.9412	13.7705	66.4386	1.9714	.9609	1.1272
1.5	1.4214	1.0625	1.00	.7035	1.4214	.9600	.2296	.9588	.9958	13.4511	63.5440	1.8765	.9687	1.1165
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.0100	.2294	1.0137	1.0395	12.7965	60.8561	1.7815	.9758	1.1055
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.0600	.2231	1.0694	1.0927	11.8841	58.3162	1.6865	.9820	1.0943
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.1100	.2110	1.1257	1.1458	10.7610	55.8849	1.5915	.9873	1.0829
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.1600	.1932	1.1829	1.1992	9.4558	53.5335	1.4966	.9917	1.0710
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.2100	.1697	1.2410	1.2531	7.9652	51.2401	1.4016	.9951	1.0587
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.2600	.1404	1.3001	1.3081	6.3572	48.9967	1.3066	.9976	1.0460
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.3100	.1048	1.3604	1.3647	4.5729	46.7580	1.2116	.9991	1.0327
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.3600	.0624	1.4220	1.4235	2.6272	44.5398	1.1167	.9998	1.0186
1.5	1.4214	1.0625	1.00	.7035	1.4214	1.4100	.0125	1.4853	1.4854	.5092	42.3190	1.0217	1.0000	1.0036
1.5	1.4214	1.0625	1.04	.8126	1.2306	.8200	.0388	.8069	.8079	2.7114	86.1283	2.0801	.8995	1.2458
1.5	1.4214	1.0625	1.04	.8126	1.2306	.8700	.0990	.8600	.8656	6.4212	79.4986	1.9851	.9045	1.2326
1.5	1.4214	1.0625	1.04	.8126	1.2306	.9200	.1221	.9137	.9217	7.5617	75.5462	1.8902	.9086	1.2212
1.5	1.4214	1.0625	1.04	.8126	1.2306	.9700	.1309	.9680	.9768	7.6881	72.3804	1.7953	.9119	1.2096
1.5	1.4214	1.0625	1.04	.8126	1.2306	1.0200	.1298	1.0229	1.0312	7.2516	70.0526	1.7003	.9143	1.1976
1.5	1.4214	1.0625	1.04	.8126	1.2306	1.0700	.1202	1.0786	1.0854	6.4094	68.0351	1.6053	.9157	1.1853
1.5	1.4214	1.0625	1.04	.8126	1.2306	1.1200	.1025	1.1351	1.1399	5.2270	66.4038	1.5104	.9161	1.1726
1.5	1.4214	1.0625	1.04	.8126	1.2306	1.1700	.0754	1.1925	1.1950	3.6883	65.1768	1.4154	.9154	1.1594
1.5	1.4214	1.0625	1.04	.8126	1.2306	1.2200	.0301	1.2510	1.2514	1.4132	64.1760	1.3204	.9137	1.1456

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.2

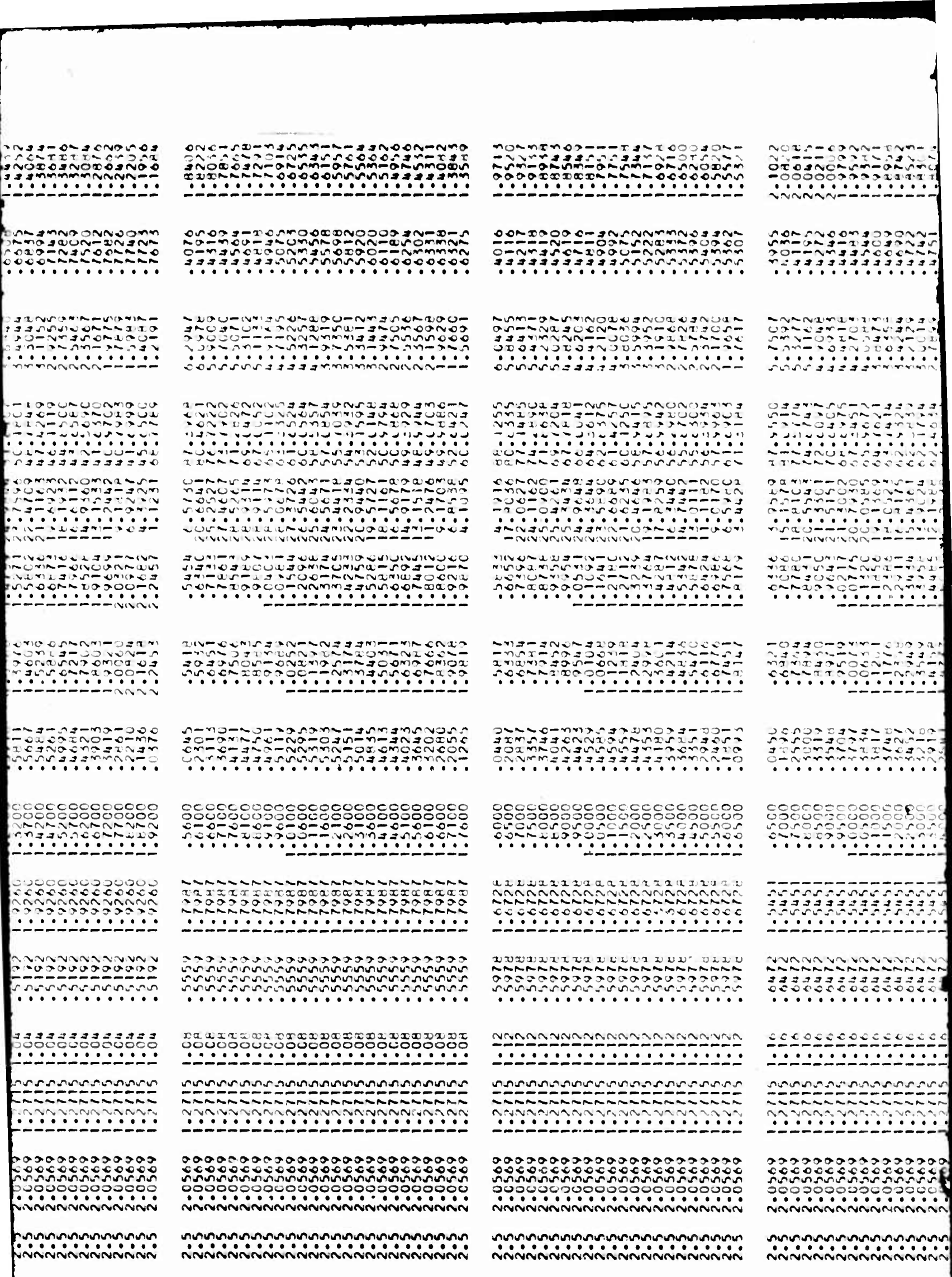
M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
2.0	1.7728	1.1684	1.00	.5641	1.7728	.5700	.0731	.5518	.5563	7.3049	68.5242	4.2567	.6788	1.3580
2.0	1.7728	1.1684	1.00	.5641	1.7728	.6200	.2186	.6051	.6295	19.4192	79.2643	4.1215	.6962	1.3450
2.0	1.7728	1.1684	1.00	.5641	1.7728	.6700	.2925	.6549	.7146	24.5945	75.1454	3.9859	.7138	1.3320
2.0	1.7728	1.1684	1.00	.5641	1.7728	.7200	.3446	.7074	.7841	25.5738	71.2779	3.8506	.7315	1.3189
2.0	1.7728	1.1684	1.00	.5641	1.7728	.7700	.3838	.7602	.8494	26.4945	69.0562	3.7152	.7494	1.3058
2.0	1.7728	1.1684	1.00	.5641	1.7728	.8200	.4140	.8137	.9115	26.7870	66.5160	3.5798	.7675	1.2926
2.0	1.7728	1.1684	1.00	.5641	1.7728	.8700	.4370	.8677	.9711	26.6702	64.1712	3.4444	.7855	1.2794
2.0	1.7728	1.1684	1.00	.5641	1.7728	.9200	.4540	.9224	1.0286	26.2668	61.9695	3.3090	.8036	1.2660
2.0	1.7728	1.1684	1.00	.5641	1.7728	.9700	.4658	.9777	1.0846	25.6512	59.8765	3.1737	.8215	1.2526
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.0200	.4728	1.0337	1.1394	24.8705	57.8676	3.0383	.8393	1.2391
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.0700	.4754	1.0904	1.1932	23.9555	55.9246	2.9029	.8569	1.2255
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.1200	.4737	1.1478	1.2461	22.9266	54.0331	2.7675	.8740	1.2118
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.1700	.4679	1.2060	1.2978	21.7971	52.1816	2.6321	.8908	1.1979
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.2200	.4580	1.2650	1.3511	20.5754	50.3603	2.4966	.9069	1.1839
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.2700	.4439	1.3248	1.4034	19.2660	48.5607	2.3614	.9222	1.1696
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.3200	.4256	1.3855	1.4558	17.8701	46.7751	2.2260	.9367	1.1552
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.3700	.4029	1.4473	1.5085	16.3865	44.9964	2.0906	.9501	1.1405
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.4200	.3755	1.5101	1.5620	14.8110	43.2177	1.9553	.9623	1.1254
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.4700	.3431	1.5741	1.6164	13.1371	41.4321	1.8199	.9730	1.1100
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.5200	.3052	1.6394	1.6721	11.3550	39.6324	1.6845	.9821	1.0941
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.5700	.2614	1.7062	1.7297	9.4514	37.8110	1.5491	.9894	1.0776
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.6200	.2106	1.7748	1.7898	7.4083	35.9593	1.4137	.9947	1.0603
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.6700	.1520	1.8456	1.8532	5.2018	34.0677	1.2784	.9981	1.0421
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.7200	.0841	1.9189	1.9212	2.7995	32.1244	1.1430	.9997	1.0226
2.0	1.7728	1.1684	1.00	.5641	1.7728	1.7700	.0048	1.9956	1.9956	.1568	30.1153	1.0076	1.0000	1.0013
2.0	1.7728	1.1684	1.04	.6114	1.6356	.6200	.0803	.6019	.6070	7.3766	85.6950	4.0542	.6690	1.4604
2.0	1.7728	1.1684	1.04	.6114	1.6356	.6700	.2029	.6535	.6829	16.8497	79.6459	3.9188	.6832	1.4468
2.0	1.7728	1.1684	1.04	.6114	1.6356	.7200	.2671	.7057	.7527	20.3564	75.3014	3.7726	.6974	1.4331
2.0	1.7728	1.1684	1.04	.6114	1.6356	.7700	.3115	.7583	.8181	22.0286	72.1661	3.6316	.7115	1.4193
2.0	1.7728	1.1684	1.04	.6114	1.6356	.8200	.3440	.8116	.8801	22.7577	69.4664	3.4910	.7256	1.4054
2.0	1.7728	1.1684	1.04	.6114	1.6356	.8700	.3677	.8653	.9395	22.9128	67.0446	3.3502	.7391	1.3914
2.0	1.7728	1.1684	1.04	.6114	1.6356	.9200	.3845	.9197	.9966	22.6521	64.8341	3.2094	.7525	1.3774
2.0	1.7728	1.1684	1.04	.6114	1.6356	.9700	.3953	.9747	1.0526	22.1733	62.7749	3.0686	.7656	1.3632
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.0200	.4008	1.0304	1.1071	21.4520	60.8419	2.9278	.7781	1.3489
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.0700	.4013	1.0868	1.1607	20.5600	59.0171	2.7870	.7901	1.3345
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.1200	.3971	1.1438	1.2136	19.5243	57.2900	2.6462	.8015	1.3198
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.1700	.3883	1.2016	1.2661	18.3620	55.6574	2.5054	.8120	1.3050
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.2200	.3749	1.2603	1.3184	17.0832	54.1230	2.3646	.8215	1.2900
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.2700	.3568	1.3198	1.3709	15.6929	52.6802	2.2238	.8300	1.2747
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.3200	.3338	1.3802	1.4237	14.1912	51.3163	2.0831	.8372	1.2590
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.3700	.3056	1.4417	1.4772	12.5743	50.0231	1.9423	.8430	1.2430
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.4200	.2717	1.5044	1.5317	10.8334	48.8196	1.8015	.8473	1.2265
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.4700	.2316	1.5683	1.5877	8.9542	47.6964	1.6607	.8497	1.2094
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.5200	.1841	1.6338	1.6457	6.9071	46.6385	1.5199	.8503	1.1915
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.5700	.1274	1.7010	1.7066	4.6578	45.6271	1.3791	.8490	1.1727
2.0	1.7728	1.1684	1.04	.6114	1.6356	1.6200	.0531	1.7704	1.7714	1.2787	44.6265	1.2384	.8457	1.1526
2.0	1.7728	1.1684	1.08	.6690	1.4948	.6700	.0246	.6523	.6527	2.0498	82.6415	3.8408	.6552	1.5662
2.0	1.7728	1.1684	1.08	.6690	1.4948	.7200	.1677	.7042	.7231	13.1138	80.2445	3.6946	.6662	1.5514
2.0	1.7728	1.1684	1.08	.6690	1.4948	.7700	.2264	.7567	.7967	16.7864	78.2966	3.5484	.6769	1.5373
3.0	1.7728	1.1684	1.08	.6690	1.4948	.8200	.2647	.8096	.8508	17.9918	76.2627	3.4022	.6872	1.5227
2.0	1.7728	1.1684	1.08	.6690	1.4948	.8700	.2910	.8632	.9102	18.4216	74.2280	3.2560	.6971	1.5080
2.0	1.7728	1.1684	1.08	.6690	1.4948	.9200	.3094	.9175	.9675	18.5215	72.2745	3.1098	.7065	1.4932
2.0	1.7728	1.1684	1.08	.6690	1.4948	.9700	.3187	.9721	1.0232	18.3167	70.3854	2.9636	.7153	1.4782
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.0200	.3227	1.0275	1.0777	17.9567	68.5028	2.8174	.7234	1.4631
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.0700	.3210	1.0835	1.1312	17.4612	66.6122	2.6711	.7307	1.4477
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.1200	.3137	1.1403	1.1842	16.8172	64.7017	2.5249	.7370	1.4321
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.1700	.3014	1.1979	1.2370	16.0460	62.7644	2.3787	.7423	1.4165
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.2200	.2838	1.2562	1.2897	15.1781	60.7956	2.2325	.7464	1.4007
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.2700	.2598	1.3155	1.3427	14.1941	58.7901	2.0863	.7491	1.3845
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.3200	.2295	1.3765	1.3965	13.0835	56.7382	1.9401	.7504	1.3685
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.3700	.1920	1.4393	1.4513	11.8362	54.6320	1.7939	.7500	1.3523
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.4200	.1447	1.5044	1.5077	10.4408	52.4566	1.6477	.7479	1.3355
2.0	1.7728	1.1684	1.08	.6690	1.4948	1.4700	.0791	1.5641	1.5664	8.0784	51.4047	1.5015	.7439	1.3112

2.0	1.7728	1.16P4	1.00	.5641	1.7728	1.7700	.0048	1.9956	1.9956	.1562	90.1154	1.0076	1.0000	1.0015
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.6200	.0803	.6019	.6070	7.3766	85.2950	4.0542	.6690	1.4604
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.6700	.2029	.6535	.6829	16.8497	79.2454	3.7144	.6832	1.4468
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.7200	.2671	.7057	.7527	20.3564	75.2014	3.7726	.6974	1.4331
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.7700	.3115	.7583	.8181	22.0286	72.1661	3.6316	.7115	1.4195
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.8200	.3440	.8116	.8801	22.7577	69.4664	3.4910	.7256	1.4059
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.8700	.3677	.8654	.9395	22.9128	67.0490	3.3502	.7391	1.3914
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.9200	.3845	.9197	.9968	22.8721	64.8341	3.2094	.7525	1.3774
2.0	1.7728	1.16P4	1.04	.6114	1.6356	.9700	.3953	.9747	1.0526	22.7733	62.7749	3.0686	.7656	1.3632
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.0200	.4008	1.0304	1.1071	21.4520	60.8419	2.9278	.7781	1.3489
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.0700	.4013	1.0868	1.1607	20.5600	59.0171	2.7870	.7901	1.3345
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.1200	.3971	1.1438	1.2136	19.5243	57.2900	2.6462	.8015	1.3198
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.1700	.3883	1.2016	1.2661	18.4620	55.6574	2.5054	.8120	1.3050
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.2200	.3749	1.2603	1.3184	17.0832	54.1230	2.3646	.8215	1.2900
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.2700	.3568	1.3198	1.3709	15.6929	52.7002	2.2238	.8300	1.2747
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.3200	.3338	1.3802	1.4237	14.1912	51.4163	2.0831	.8372	1.2590
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.3700	.3056	1.4417	1.4772	12.5743	50.2231	1.9423	.8430	1.2430
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.4200	.2717	1.5044	1.5317	10.8334	49.1196	1.8015	.8473	1.2265
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.4700	.2316	1.5683	1.5877	8.9542	48.1084	1.6607	.8497	1.2094
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.5200	.1841	1.6338	1.6457	6.9071	47.1838	1.5199	.8503	1.1915
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.5700	.1274	1.7010	1.7066	4.6378	46.2971	1.3791	.8490	1.1727
2.0	1.7728	1.16P4	1.04	.6114	1.6356	1.6200	.0531	1.7704	1.7714	1.8787	45.4265	1.2383	.8457	1.1526
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.6700	.0246	.6523	.6527	2.0998	88.4415	3.8408	.6552	1.5662
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.7200	.1677	.7042	.7231	13.1138	80.3445	3.6946	.6662	1.5519
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.7700	.2264	.7567	.7887	16.3864	76.3996	3.5484	.6769	1.5373
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.8200	.2647	.8096	.8508	17.8918	73.5627	3.4022	.6872	1.5227
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.8700	.2910	.8632	.9102	18.4916	70.8080	3.2560	.6971	1.5080
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.9200	.3084	.9173	.9675	18.5415	68.5745	3.1098	.7065	1.4932
2.0	1.7728	1.16P4	1.08	.6690	1.4948	.9700	.3187	.9721	1.0232	18.1867	66.5854	2.9636	.7153	1.4782
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.0200	.3227	1.0275	1.0777	17.5567	64.8028	2.8173	.7234	1.4631
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.0700	.3210	1.0835	1.1312	16.7012	63.2122	2.6711	.7307	1.4477
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.1200	.3139	1.1403	1.1842	15.6572	61.8179	2.5249	.7370	1.4321
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.1700	.3014	1.1979	1.2370	14.4460	60.6448	2.3787	.7423	1.4163
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.2200	.2834	1.2562	1.2897	13.0781	59.7456	2.2325	.7464	1.4001
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.2700	.2596	1.3155	1.3427	11.5541	59.1201	2.0863	.7491	1.3835
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.3200	.2295	1.3758	1.3965	9.8633	59.0582	1.9401	.7504	1.3665
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.3700	.1920	1.4372	1.4513	7.9762	60.0520	1.7939	.7500	1.3489
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.4200	.1447	1.4999	1.5077	5.8168	63.1606	1.6477	.7479	1.3305
2.0	1.7728	1.16P4	1.08	.6690	1.4948	1.4700	.0791	1.5641	1.5664	3.0796	71.4647	1.5015	.7439	1.3112
2.0	1.7728	1.16P4	1.12	.7460	1.3405	.7500	.0408	.7442	.7353	2.1111	87.4771	3.5256	.6422	1.6661
2.0	1.7728	1.16P4	1.12	.7460	1.3405	.8000	.1415	.7867	.7989	10.0274	80.6183	3.3740	.6496	1.6504
2.0	1.7728	1.16P4	1.12	.7460	1.3405	.8500	.1850	.8398	.8595	12.2793	77.6026	3.2224	.6563	1.6353
2.0	1.7728	1.16P4	1.12	.7460	1.3405	.9000	.2108	.8935	.9177	13.1832	74.7855	3.0708	.6625	1.6197
2.0	1.7728	1.16P4	1.12	.7460	1.3405	.9500	.2254	.9478	.9741	13.2471	72.1339	2.9192	.6679	1.6040
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.0000	.2313	1.0027	1.0292	13.0225	71.0204	2.7675	.6724	1.5880
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.0500	.2296	1.0583	1.0833	12.3363	69.6304	2.6159	.6760	1.5717
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.1000	.2209	1.1145	1.1366	11.3554	68.3489	2.4643	.6786	1.5552
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.1500	.2050	1.1716	1.1900	10.1094	67.2721	2.3127	.6799	1.5383
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.2000	.1814	1.2294	1.2434	8.5950	66.1070	2.1610	.6800	1.5210
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.2500	.1481	1.2882	1.2972	6.7565	65.0954	2.0094	.6785	1.5032
2.0	1.7728	1.16P4	1.12	.7460	1.3405	1.3000	.0994	1.3480	1.3520	4.3736	64.1561	1.8578	.6755	1.4848
2.0	1.7728	1.16P4	1.16	.8864	1.1282	.8900	.0235	.8807	.8812	1.5155	88.2162	3.6047	.6250	1.7481
2.0	1.7728	1.16P4	1.16	.8864	1.1282	.9400	.0796	.9349	.9382	4.8419	83.3652	3.4477	.6274	1.7314
2.0	1.7728	1.16P4	1.16	.8864	1.1282	.9900	.0933	.9894	.9938	5.3819	81.4083	3.2906	.6288	1.7145
2.0	1.7728	1.16P4	1.16	.8864	1.1282	1.0400	.0889	1.0447	1.0485	4.8864	81.6500	3.1336	.6292	1.6973
2.0	1.7728	1.16P4	1.16	.8864	1.1282	1.0900	.0658	1.1006	1.1026	3.4561	83.4480	2.9766	.6285	1.6796

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.2

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PIR21	IR21
2.5	2.0569	1.2715	1.00	.4862	2.0569	.4900	.0710	.4725	.4774	25.2405	87.4069	6.7132	.4174	1.5888
2.5	2.0569	1.2715	1.00	.4862	2.0569	.5400	.2611	.5235	.5215	25.8089	80.4316	6.5510	.4330	1.5718
2.5	2.0569	1.2715	1.00	.4862	2.0569	.5900	.3557	.5751	.6715	31.0829	76.2707	6.3487	.4493	1.5549
2.5	2.0569	1.2715	1.00	.4862	2.0569	.6400	.4242	.6274	.7525	32.5377	73.3324	6.1664	.4661	1.5379
2.5	2.0569	1.2715	1.00	.4862	2.0569	.6900	.4781	.6800	.8272	34.7179	70.7216	5.9841	.4835	1.5209
2.5	2.0569	1.2715	1.00	.4862	2.0569	.7400	.5219	.7334	.8975	35.1942	68.3809	5.8017	.5015	1.5039
2.5	2.0569	1.2715	1.00	.4862	2.0569	.7900	.5580	.7875	.9641	35.2354	66.2264	5.6194	.5202	1.4868
2.5	2.0569	1.2715	1.00	.4862	2.0569	.8400	.5879	.8422	1.0279	34.9864	64.2149	5.4371	.5395	1.4697
2.5	2.0569	1.2715	1.00	.4862	2.0569	.8900	.6124	.8975	1.0895	34.5323	62.3080	5.2548	.5594	1.4526
2.5	2.0569	1.2715	1.00	.4862	2.0569	.9400	.6323	.9536	1.1492	33.9264	60.4852	5.0725	.5799	1.4354
2.5	2.0569	1.2715	1.00	.4862	2.0569	.9900	.6479	1.0104	1.2076	33.2634	58.7296	4.8902	.6010	1.4182
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.0400	.6597	1.0680	1.2647	32.5865	57.0283	4.7079	.6228	1.4009
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.0900	.6677	1.1263	1.3208	31.8916	55.3710	4.5255	.6450	1.3836
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.1400	.6723	1.1854	1.3762	31.2027	53.7492	4.3432	.6678	1.3662
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.1900	.6735	1.2454	1.4310	29.5081	52.1560	4.1609	.6911	1.3488
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.2400	.6714	1.3062	1.4854	28.4317	50.5850	3.9786	.7147	1.3313
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.2900	.6659	1.3680	1.5395	27.3034	49.0310	3.7963	.7387	1.3137
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.3400	.6572	1.4307	1.5935	26.1242	47.4887	3.6140	.7629	1.2959
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.3900	.6450	1.4944	1.6474	24.8942	45.9537	3.4317	.7872	1.2781
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.4400	.6295	1.5591	1.7016	23.6117	44.4215	3.2493	.8115	1.2601
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.4900	.6103	1.6250	1.7560	22.2741	42.8875	3.0670	.8356	1.2420
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.5400	.5874	1.6921	1.8110	20.8774	41.3475	2.8847	.8592	1.2237
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.5900	.5604	1.7604	1.8665	19.4163	39.7968	2.7024	.8822	1.2051
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.6400	.5292	1.8301	1.9230	17.8836	38.2304	2.5201	.9041	1.1863
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.6900	.4932	1.9013	1.9806	16.2701	36.6432	2.3378	.9248	1.1671
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.7400	.4521	1.9742	2.0398	14.5646	35.0290	2.1554	.9439	1.1476
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.7900	.4050	2.0490	2.1006	12.7501	33.3811	1.9731	.9608	1.1274
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.8400	.3513	2.1259	2.1644	10.8085	31.6915	1.7908	.9751	1.1066
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.8900	.2896	2.2054	2.2312	8.7125	29.9502	1.6085	.9864	1.0849
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.9400	.2185	2.2881	2.3026	6.4257	28.1452	1.4262	.9943	1.0620
2.5	2.0569	1.2715	1.00	.4862	2.0569	1.9900	.1356	2.3749	2.3804	3.8971	26.2608	1.2439	.9987	1.0373
2.5	2.0569	1.2715	1.00	.4862	2.0569	2.0400	.0374	2.4672	2.4676	1.0513	24.2759	1.0616	1.0000	1.0100
2.5	2.0569	1.2715	1.04	.5192	1.9260	.5200	.0307	.5020	.5024	2.3776	88.4254	6.5281	.4119	1.7142
2.5	2.0569	1.2715	1.04	.5192	1.9260	.5700	.2392	.5502	.5506	22.7626	80.4144	6.3458	.4256	1.6965
2.5	2.0569	1.2715	1.04	.5192	1.9260	.6200	.3296	.6049	.6050	27.9256	76.2443	6.1489	.4397	1.6788
2.5	2.0569	1.2715	1.04	.5192	1.9260	.6700	.3940	.6571	.7624	30.4601	73.2938	5.9593	.4542	1.6611
2.5	2.0569	1.2715	1.04	.5192	1.9260	.7200	.4440	.7100	.8241	31.6582	71.1034	5.7697	.4691	1.6433
2.5	2.0569	1.2715	1.04	.5192	1.9260	.7700	.4839	.7634	.9017	32.1473	69.1901	5.5800	.4844	1.6255
2.5	2.0569	1.2715	1.04	.5192	1.9260	.8200	.5162	.8175	.9660	32.1221	66.6702	5.3904	.5000	1.6076
2.5	2.0569	1.2715	1.04	.5192	1.9260	.8700	.5423	.8722	1.0278	31.9368	64.6941	5.2008	.5160	1.5897
2.5	2.0569	1.2715	1.04	.5192	1.9260	.9200	.5630	.9276	1.0875	31.4665	62.8295	5.0112	.5322	1.5717
2.5	2.0569	1.2715	1.04	.5192	1.9260	.9700	.5790	.9837	1.1456	30.8548	61.0542	4.8216	.5488	1.5537
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.0200	.5907	1.0405	1.2025	30.0765	59.3521	4.6320	.5656	1.5356
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.0700	.5984	1.0980	1.2586	29.2150	57.7113	4.4424	.5825	1.5175
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.1200	.6022	1.1562	1.3128	28.2662	56.1226	4.2528	.5996	1.4992
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.1700	.6023	1.2153	1.3669	27.2407	54.5794	4.0632	.6168	1.4809
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.2200	.5989	1.2752	1.4206	26.1454	53.0765	3.8736	.6338	1.4625
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.2700	.5918	1.3360	1.4744	24.9844	51.6107	3.6840	.6508	1.4442
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.3200	.5811	1.3976	1.5271	23.7596	50.1801	3.4944	.6675	1.4252
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.3700	.5667	1.4603	1.5802	22.4709	48.7844	3.3048	.6837	1.4064
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.4200	.5484	1.5239	1.6336	21.1163	47.4269	3.1152	.6994	1.3874
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.4700	.5261	1.5886	1.6874	19.6923	46.1119	2.9255	.7145	1.3681
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.5200	.4995	1.6545	1.7416	18.1942	44.8500	2.7359	.7282	1.3486
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.5700	.4684	1.7217	1.7966	16.6112	43.6587	2.5462	.7409	1.3287
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.6200	.4321	1.7902	1.8525	14.9360	42.5690	2.3567	.7520	1.3086
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.6700	.3903	1.8603	1.9104	13.1533	41.6370	2.1671	.7612	1.2880
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.7200	.3419	1.9321	1.9699	11.2442	40.9702	1.9775	.7682	1.2662
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.7700	.2861	2.0060	2.0321	9.1818	40.7983	1.7879	.7726	1.2439
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.8200	.2210	2.0824	2.0977	6.9247	41.2493	1.5984	.7740	1.2205
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.8700	.1436	2.1614	2.1682	4.4225	42.5506	1.4087	.7723	1.1956
2.5	2.0569	1.2715	1.04	.5192	1.9260	1.9200	.0378	2.2453	2.2457	1.1241	44.7789	1.2191	.7675	1.1684
2.5	2.0569	1.2715	1.08	.5557	1.7987	.5600	.0604	.5411	.5417	2.3779	88.4254	6.5281	.4119	1.7142

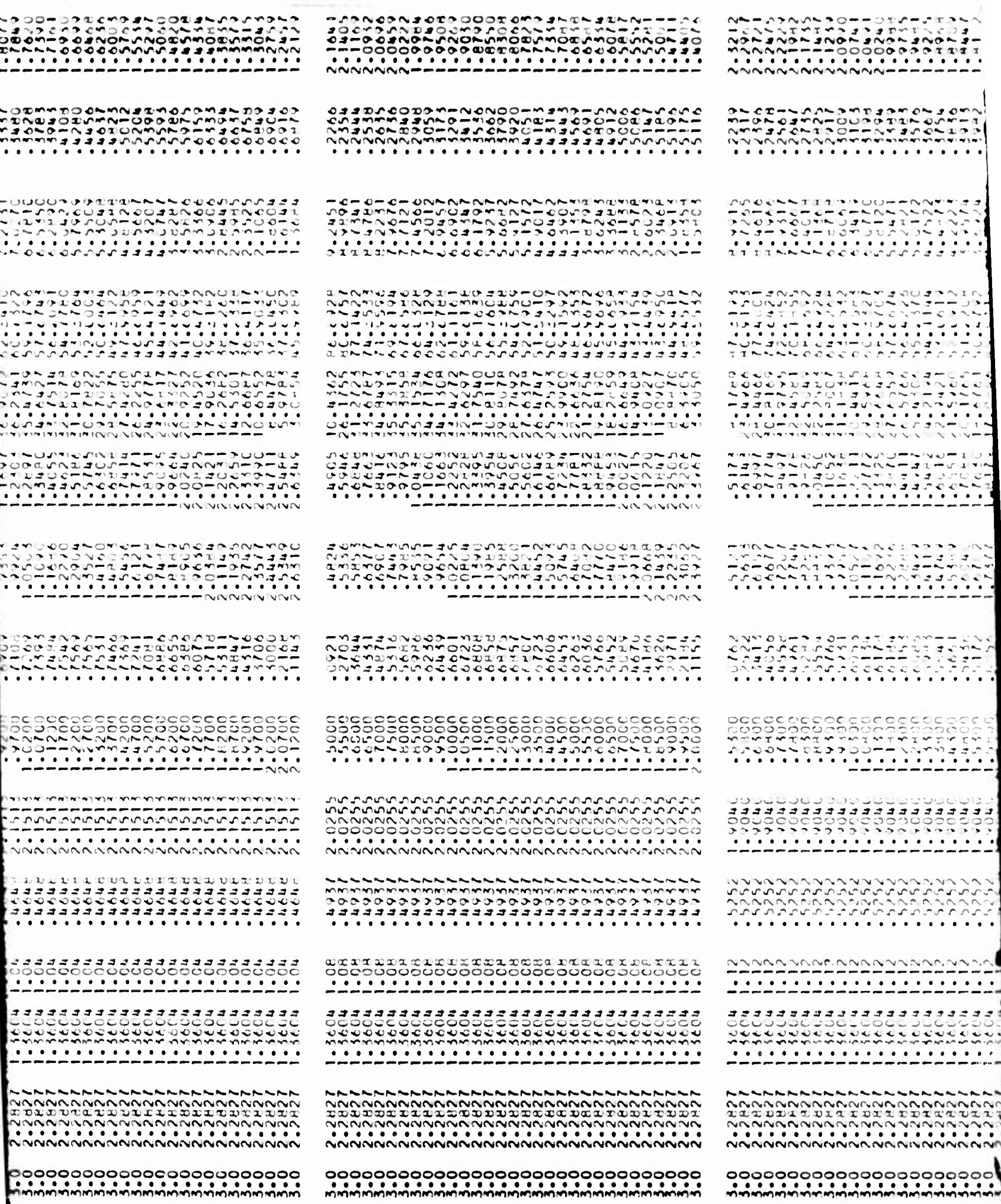


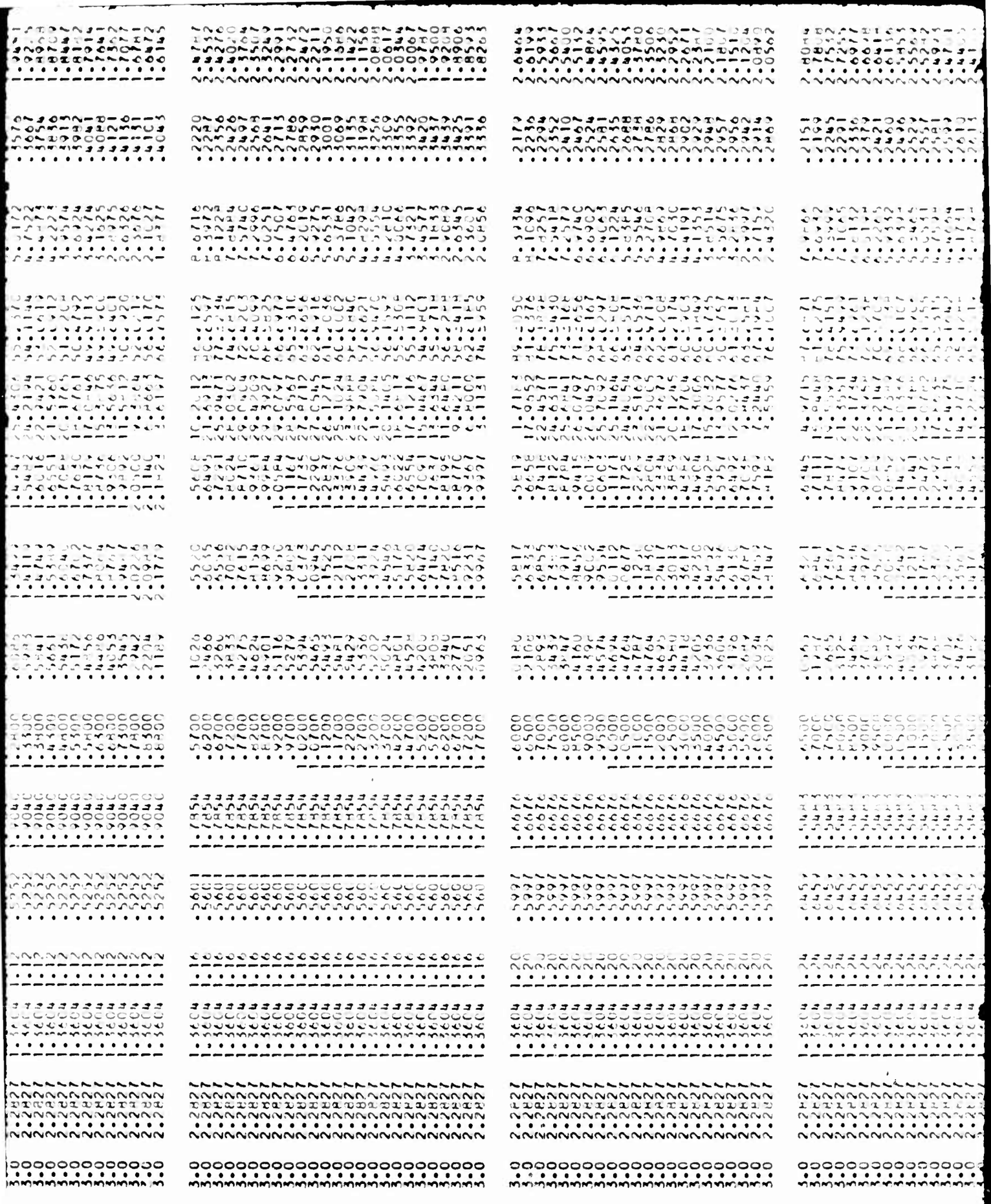
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2.5	2.0569	1.2715	1.12	.5978	1.6728	.6500	.2087	.6433	.6652	17.8036	80.8335	5.8455	.4116	1.9520
2.5	2.0569	1.2715	1.12	.5978	1.6728	.7000	.2837	.6854	.7196	22.0627	77.1485	5.6413	.4217	1.9327
2.5	2.0569	1.2715	1.12	.5978	1.6728	.7500	.3357	.7341	.8087	24.1162	74.4890	5.4471	.4318	1.9133
2.5	2.0569	1.2715	1.12	.5978	1.6728	.8000	.3746	.7914	.8738	25.0900	71.6638	5.2329	.4419	1.8938
2.5	2.0569	1.2715	1.12	.5978	1.6728	.8500	.4041	.8452	.9358	25.4261	69.7204	5.0287	.4520	1.8743
2.5	2.0569	1.2715	1.12	.5978	1.6728	.9000	.4263	.8996	.9954	25.3434	67.8818	4.8245	.4619	1.8546
2.5	2.0569	1.2715	1.12	.5978	1.6728	.9500	.4423	.9547	1.0541	24.9648	66.0041	4.6203	.4716	1.8349
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.0000	.4529	1.0104	1.1092	24.3644	64.3612	4.4162	.4811	1.8151
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.0500	.4585	1.0668	1.1641	23.5890	62.8375	4.2120	.4904	1.7951
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.1000	.4594	1.1239	1.2188	22.6689	61.4257	4.0078	.4992	1.7751
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.1500	.4559	1.1818	1.2712	21.6235	60.1250	3.8036	.5075	1.7548
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.2000	.4478	1.2404	1.3239	20.4646	58.9415	3.5994	.5152	1.7344
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.2500	.4353	1.2998	1.3764	19.1983	57.8895	3.3952	.5222	1.7137
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.3000	.4180	1.3601	1.4287	17.8259	56.9942	3.1910	.5283	1.6928
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2.5	2.0569	1.2715	1.12	.5978	1.6728	1.4000	.3684	1.4838	1.5342	14.7442	55.8702	2.7826	.5372	1.6500
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2.5	2.0569	1.2715	1.12	.5978	1.6728	1.5000	.2948	1.6116	1.6424	11.1182	56.5934	2.3742	.5404	1.6054
2.5	2.0569	1.2715	1.12	.5978	1.6728	1.5500	.2460	1.6776	1.6986	9.0170	57.5963	2.1700	.5394	1.5820
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2.5	2.0569	1.2715	1.16	.6472	1.5451	.6500	.0450	.6321	.6336	3.9569	87.4550	5.7507	.3955	2.1022
2.5	2.0569	1.2715	1.16	.6472	1.5451	.7000	.1896	.6840	.7086	15.1578	81.6914	5.5392	.4036	2.0820
2.5	2.0569	1.2715	1.16	.6472	1.5451	.7500	.2555	.7364	.7880	18.8103	77.5774	5.3277	.4117	2.0618
2.5	2.0569	1.2715	1.16	.6472	1.5451	.8000	.3000	.7894	.8681	20.5543	74.6743	5.1162	.4195	2.0415
2.5	2.0569	1.2715	1.16	.6472	1.5451	.8500	.3319	.8430	.9050	21.3301	72.6097	4.9048	.4272	2.0211
2.5	2.0569	1.2715	1.16	.6472	1.5451	.9000	.3548	.8971	.9643	21.5151	70.6405	4.6933	.4346	2.0006
2.5	2.0569	1.2715	1.16	.6472	1.5451	.9500	.3704	.9519	1.0217	21.3002	68.8975	4.4818	.4416	1.9799
2.5	2.0569	1.2715	1.16	.6472	1.5451	1.0000	.3797	1.0073	1.0775	20.7930	67.3451	4.2703	.4483	1.9592
2.5	2.0569	1.2715	1.16	.6472	1.5451	1.0500	.3834	1.0633	1.1320	20.0585	65.9672	4.0588	.4544	1.9382
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2.5	2.0569	1.2715	1.16	.6472	1.5451	1.2000	.3627	1.2358	1.2911	16.8175	62.8324	3.4244	.4690	1.8742
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2.5	2.0569	1.2715	1.16	.6472	1.5451	1.3000	.3218	1.3549	1.3958	13.9024	62.1794	3.0014	.4742	1.8301
2.5	2.0569	1.2715	1.16	.6472	1.5451	1.3500	.2919	1.4158	1.4485	12.1988	62.4634	2.7899	.4751	1.8074
2.5	2.0569	1.2715	1.16	.6472	1.5451	1.4000	.2541	1.4777	1.5019	10.2878	64.5041	2.5784	.4745	1.7842
2.5	2.0569	1.2715	1.16	.6472	1.5451	1.4500	.2060	1.5409	1.5564	8.0867	65.6628	2.3669	.4724	1.7602
2.5	2.0569	1.2715	1.16	.6472	1.5451	1.5000	.1406	1.6054	1.6124	5.3550	71.0615	2.1554	.4684	1.7354
2.5	2.0569	1.2715	1.20	.7092	1.4100	.7100	.0208	.6930	.6933	1.6800	88.4783	5.3934	.3882	2.2327
2.5	2.0569	1.2715	1.20	.7092	1.4100	.7600	.1618	.7454	.7621	12.0153	81.7651	5.1746	.3943	2.2116
2.5	2.0569	1.2715	1.20	.7092	1.4100	.8100	.2177	.7983	.8266	15.0436	78.4753	4.9558	.4001	2.1903
2.5	2.0569	1.2715	1.20	.7092	1.4100	.8600	.2535	.8517	.8879	16.4146	76.6204	4.7370	.4056	2.1690
2.5	2.0569	1.2715	1.20	.7092	1.4100	.9100	.2778	.9057	.9467	16.9192	74.6363	4.5182	.4107	2.1475
2.5	2.0569	1.2715	1.20	.7092	1.4100	.9600	.2912	.9604	1.0035	16.8750	72.5937	4.2995	.4155	2.1259
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.0100	.2981	1.0155	1.0588	16.4422	71.6410	4.0807	.4193	2.1041
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.0600	.2981	1.0714	1.1130	15.7092	69.9673	3.8619	.4227	2.0821
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.1100	.2917	1.1280	1.1663	14.7251	69.1927	3.6431	.4253	2.0598
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.1600	.2788	1.1854	1.2191	13.5133	68.4715	3.4244	.4271	2.0372
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.2100	.2589	1.2435	1.2716	12.0753	68.0087	3.2056	.4279	2.0143
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.2600	.2309	1.3024	1.3241	10.3857	69.0008	2.9868	.4276	1.9909
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.3100	.1927	1.3623	1.3770	8.3698	71.2463	2.7680	.4261	1.9670
2.5	2.0569	1.2715	1.20	.7092	1.4100	1.3600	.1382	1.4232	1.4305	5.8007	75.0566	2.5492	.4231	1.9425
2.5	2.0569	1.2715	1.24	.7985	1.2524	.8000	.0231	.7860	.7865	1.6511	88.1385	4.8829	.3801	2.3541
2.5	2.0569	1.2715	1.24	.7985	1.2524	.8500	.1263	.8391	.8443	8.4543	82.1789	4.6638	.3838	2.3309
2.5	2.0569	1.2715	1.24	.7985	1.2524	.9000	.1647	.8924	.9026	10.3725	80.1334	4.4507	.3869	2.3084
2.5	2.0569	1.2715	1.24	.7985	1.2524	.9500	.1849	.9470	.9648	11.0119	78.2565	4.2047	.3895	2.2858
2.5	2.0569	1.2715	1.24	.7985	1.2524	1.0000	.1929	1.0019	1.0203	10.9196	77.1705	3.9786	.3915	2.2630
2.5	2.0569	1.2715	1.24	.7985	1.2524	1.0500	.1904	1.0574	1.0747	10.3051	76.5313	3.7525	.3927	2.2399
2.5	2.0569	1.2715	1.24	.7985	1.2524	1.1000	.1791	1.1136	1.1282	9.2486	76.5184	3.5265	.3930	2.2165
2.5	2.0569	1.2715	1.24	.7985	1.2524	1.1500	.1562	1.1705	1.1812	7.7360	77.3692	3.3004	.3925	2.1927
2.5	2.0569	1.2715	1.24	.7985	1.2524	1.2000	.1174	1.2282	1.2341	5.5964	79.4198	3.0743	.3908	2.1684
2.5	2.0569	1.2715	1.24	.7985	1.2524	1.2500	.0259	1.2868	1.2870	1.1957	87.5193	2.8482	.3880	2.1435

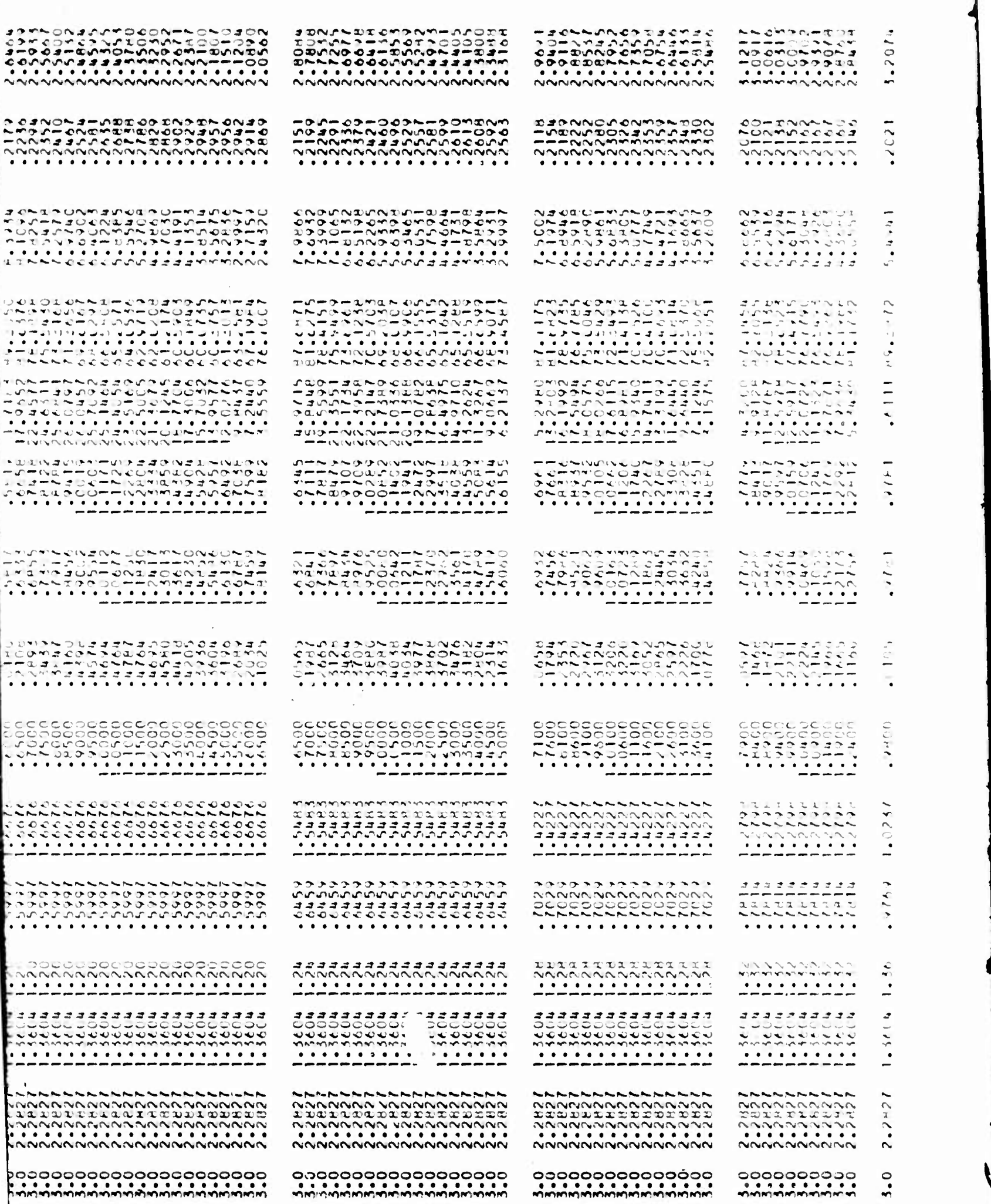
LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.2

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
3.0	2.2827	1.3604	1.00	.4381	2.2827	.4400	.0560	.4233	.4267	7.2519	53.4596	9.7182	.2302	1.8660
3.0	2.2827	1.3604	1.00	.4381	2.2827	.4900	.2872	.4742	.5496	30.3717	50.8994	9.4816	.2409	1.8443
3.0	2.2827	1.3604	1.00	.4381	2.2827	.5400	.3960	.5257	.6519	36.2567	77.1963	9.2451	.2523	1.8225
3.0	2.2827	1.3604	1.00	.4381	2.2827	.5900	.4757	.5778	.7422	38.8795	74.3020	9.0085	.2642	1.8009
3.0	2.2827	1.3604	1.00	.4381	2.2827	.6400	.5393	.6306	.8247	40.1197	71.8244	8.7720	.2767	1.7790
3.0	2.2827	1.3604	1.00	.4381	2.2827	.6900	.5920	.6841	.9014	40.6291	69.6094	8.5354	.2899	1.7572
3.0	2.2827	1.3604	1.00	.4381	2.2827	.7400	.6365	.7383	.9738	40.7020	67.5776	8.2988	.3038	1.7354
3.0	2.2827	1.3604	1.00	.4381	2.2827	.7900	.6745	.7931	1.0429	40.4923	65.6816	8.0623	.3184	1.7136
3.0	2.2827	1.3604	1.00	.4381	2.2827	.8400	.7071	.8488	1.1094	40.0883	63.8903	7.8257	.3338	1.6918
3.0	2.2827	1.3604	1.00	.4381	2.2827	.8900	.7348	.9052	1.1738	39.5446	62.1821	7.5891	.3500	1.6699
3.0	2.2827	1.3604	1.00	.4381	2.2827	.9400	.7584	.9623	1.2365	38.8960	60.5409	7.3526	.3670	1.6480
3.0	2.2827	1.3604	1.00	.4381	2.2827	.9900	.7781	1.0203	1.2978	38.1660	58.9546	7.1160	.3849	1.6261
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.0400	.7943	1.0792	1.3579	37.3707	57.4136	6.8794	.4036	1.6042
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.0900	.8072	1.1389	1.4171	36.5214	55.9100	6.6429	.4234	1.5822
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.1400	.8169	1.1995	1.4757	35.6257	54.4375	6.4063	.4441	1.5602
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.1900	.8237	1.2610	1.5336	34.6893	52.9904	6.1697	.4658	1.5382
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.2400	.8275	1.3235	1.5912	33.7158	51.5639	5.9332	.4885	1.5161
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.2900	.8284	1.3870	1.6484	32.7076	50.1539	5.6966	.5122	1.4940
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.3400	.8265	1.4516	1.7055	31.6661	48.7563	5.4600	.5370	1.4719
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.3900	.8218	1.5173	1.7626	30.5916	47.3678	5.2235	.5629	1.4496
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.4400	.8142	1.5841	1.8198	29.4839	45.9847	4.9869	.5898	1.4273
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.4900	.8037	1.6521	1.8771	28.3420	44.6040	4.7503	.6176	1.4050
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.5400	.7902	1.7213	1.9347	27.1641	43.2223	4.5138	.6465	1.3825
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.5900	.7737	1.7919	1.9926	25.9478	41.8365	4.2772	.6762	1.3599
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.6400	.7540	1.8639	2.0514	24.6900	40.4432	4.0406	.7066	1.3372
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.6900	.7309	1.9373	2.1107	23.3865	39.0390	3.8041	.7377	1.3144
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.7400	.7041	2.0123	2.1709	22.0323	37.6200	3.5675	.7691	1.2914
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.7900	.6736	2.0890	2.2320	20.6211	36.1823	3.3309	.8006	1.2682
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.8400	.6388	2.1675	2.2944	19.1450	34.7212	3.0944	.8320	1.2447
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.8900	.5993	2.2480	2.3583	17.5939	33.2316	2.8578	.8626	1.2210
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.9400	.5546	2.3306	2.4240	15.9553	31.7074	2.6212	.8921	1.1968
3.0	2.2827	1.3604	1.00	.4381	2.2827	1.9900	.5040	2.4157	2.4920	14.2128	30.1415	2.3847	.9197	1.1721
3.0	2.2827	1.3604	1.00	.4381	2.2827	2.0400	.4465	2.5037	2.5629	12.3466	28.5250	2.1481	.9446	1.1467
3.0	2.2827	1.3604	1.00	.4381	2.2827	2.0900	.3806	2.5949	2.6376	10.3213	26.8471	1.9115	.9659	1.1205
3.0	2.2827	1.3604	1.00	.4381	2.2827	2.1400	.3046	2.6903	2.7174	8.1017	25.0934	1.6750	.9827	1.0929
3.0	2.2827	1.3604	1.00	.4381	2.2827	2.1900	.2157	2.7909	2.8044	5.6255	23.2452	1.4384	.9939	1.0635
3.0	2.2827	1.3604	1.00	.4381	2.2827	2.2400	.1095	2.8990	2.9025	2.7998	21.2760	1.2018	.9992	1.0313
3.0	2.2827	1.3604	1.04	.4644	2.1513	.4700	.0876	.4529	.4607	10.5618	47.1629	2.4874	.2287	2.0123
3.0	2.2827	1.3604	1.04	.4644	2.1513	.5200	.2819	.5039	.5731	28.4608	80.6841	2.2413	.2385	1.9897
3.0	2.2827	1.3604	1.04	.4644	2.1513	.5700	.3825	.5555	.6690	34.8643	77.0866	1.9953	.2486	1.9670
3.0	2.2827	1.3604	1.04	.4644	2.1513	.6200	.4564	.6077	.7546	36.3554	74.4519	1.7492	.2593	1.9443
3.0	2.2827	1.3604	1.04	.4644	2.1513	.6700	.5151	.6606	.8333	37.5525	71.2184	1.5032	.2704	1.9216
3.0	2.2827	1.3604	1.04	.4644	2.1513	.7200	.5634	.7142	.9066	38.0454	69.2404	1.2572	.2820	1.8989
3.0	2.2827	1.3604	1.04	.4644	2.1513	.7700	.6039	.7684	.9765	38.1085	67.6421	1.0112	.2941	1.8761
3.0	2.2827	1.3604	1.04	.4644	2.1513	.8200	.6381	.8233	1.0432	37.8862	65.7779	1.7651	.3068	1.8534
3.0	2.2827	1.3604	1.04	.4644	2.1513	.8700	.6669	.8789	1.1074	37.4701	64.1179	1.5191	.3199	1.8306
3.0	2.2827	1.3604	1.04	.4644	2.1513	.9200	.6909	.9353	1.1697	36.9072	62.5410	1.2731	.3337	1.8077
3.0	2.2827	1.3604	1.04	.4644	2.1513	.9700	.7108	.9924	1.2304	36.2341	60.9322	1.0270	.3480	1.7849
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.0200	.7269	1.0503	1.2897	35.4739	59.3196	0.7810	.3628	1.7620
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.0700	.7393	1.1090	1.3480	34.6427	57.6743	0.5350	.3783	1.7390
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.1200	.7484	1.1686	1.4055	33.7514	56.0091	0.2890	.3943	1.7161
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.1700	.7542	1.2290	1.4622	32.8079	54.3180	0.0429	.4108	1.6930
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.2200	.7569	1.2904	1.5186	31.8169	52.6064	5.7969	.4280	1.6699
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.2700	.7565	1.3527	1.5745	30.7822	50.8803	5.5509	.4456	1.6468
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.3200	.7531	1.4160	1.6302	29.7055	49.1464	5.3048	.4637	1.6236
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.3700	.7466	1.4804	1.6857	28.5875	47.4122	5.0588	.4823	1.6003
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.4200	.7369	1.5456	1.7414	27.4280	45.6755	4.8127	.5012	1.5769
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.4700	.7241	1.6121	1.7971	26.2255	43.9359	4.5667	.5204	1.5534
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.5200	.7081	1.6797	1.8531	24.9778	42.1921	4.3207	.5398	1.5297
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.5700	.6888	1.7487	1.9095	23.6817	40.4427	4.0747	.5595	1.5059
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.6200	.6655	1.8190	1.9664	22.3327	38.6863	3.8287	.5793	1.4820
3.0	2.2827	1.3604	1.04	.4644	2.1513	1.6700	.6380	1.8911	2.0240	20.9252	36.9211	3.5827	.5994	1.4579







LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.2

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2Ue)	Y(M2Ve)	M2U	M2	THETA	SIGMA	PR21	PIR21	TR21
3.5	2.4609	1.4336	1.00	.4064	2.4609	.4100	.0822	.3941	.4020	11.4314	47.0452	13.2509	.1202	2.1896
3.5	2.4609	1.4336	1.00	.4064	2.4609	.4600	.3136	.4449	.5385	34.2873	81.0915	12.9523	.1267	2.1623
3.5	2.4609	1.4336	1.00	.4064	2.4609	.5100	.4300	.4964	.6493	40.1558	77.5702	12.6536	.1336	2.1350
3.5	2.4609	1.4336	1.00	.4064	2.4609	.5600	.5162	.5486	.7461	42.6702	74.0073	12.3549	.1409	2.1077
3.5	2.4609	1.4336	1.00	.4064	2.4609	.6100	.5857	.6015	.8339	43.8376	72.4397	12.0563	.1487	2.0803
3.5	2.4609	1.4336	1.00	.4064	2.4609	.6600	.6440	.6551	.9153	44.2778	70.8231	11.7576	.1570	2.0530
3.5	2.4609	1.4336	1.00	.4064	2.4609	.7100	.6939	.7095	.9920	44.3416	68.2823	11.4589	.1659	2.0256
3.5	2.4609	1.4336	1.00	.4064	2.4609	.7600	.7370	.7646	1.0651	44.1208	66.5725	11.1603	.1753	1.9983
3.5	2.4609	1.4336	1.00	.4064	2.4609	.8100	.7746	.8206	1.1356	43.7206	64.8642	10.8616	.1853	1.9709
3.5	2.4609	1.4336	1.00	.4064	2.4609	.8600	.8074	.8773	1.2034	43.1932	63.1368	10.5629	.1960	1.9435
3.5	2.4609	1.4336	1.00	.4064	2.4609	.9100	.8360	.9350	1.2696	42.5719	61.4750	10.2643	.2074	1.9161
3.5	2.4609	1.4336	1.00	.4064	2.4609	.9600	.8607	.9935	1.3343	41.8790	60.1675	9.9656	.2195	1.8887
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.0100	.8820	1.0529	1.3978	41.1299	58.7050	9.6669	.2325	1.8613
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.0600	.9001	1.1132	1.4604	40.3351	57.2803	9.3682	.2463	1.8339
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.1100	.9151	1.1746	1.5223	39.5022	55.8874	9.0696	.2610	1.8064
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.1600	.9272	1.2369	1.5835	38.6366	54.5210	8.7709	.2768	1.7789
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.2100	.9366	1.3003	1.6444	37.7420	53.1767	8.4722	.2935	1.7514
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.2600	.9433	1.3649	1.7050	36.8210	51.8507	8.1736	.3114	1.7239
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.3100	.9474	1.4305	1.7654	35.8753	50.5396	7.8749	.3305	1.6963
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.3600	.9490	1.4973	1.8258	34.9059	49.2400	7.5762	.3509	1.6687
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.4100	.9479	1.5654	1.8863	33.9131	47.9493	7.2776	.3725	1.6411
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.4600	.9444	1.6347	1.9469	32.8969	46.6645	6.9789	.3956	1.6134
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.5100	.9383	1.7054	2.0079	31.8565	45.3830	6.6802	.4202	1.5857
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.5600	.9296	1.7775	2.0692	30.7909	44.1024	6.3816	.4463	1.5579
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.6100	.9183	1.8511	2.1310	29.6988	42.8199	6.0829	.4740	1.5301
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.6600	.9042	1.9262	2.1935	28.5781	41.5330	5.7842	.5033	1.5022
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.7100	.8874	2.0030	2.2566	27.4264	40.2391	5.4856	.5343	1.4743
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.7600	.8676	2.0815	2.3206	26.2407	38.9352	5.1869	.5670	1.4462
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.8100	.8447	2.1618	2.3856	25.0174	37.6185	4.8882	.6015	1.4180
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.8600	.8185	2.2440	2.4516	23.7521	36.2856	4.5896	.6371	1.3897
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.9100	.7888	2.3283	2.5190	22.4392	34.9330	4.2909	.6744	1.3612
3.5	2.4609	1.4336	1.00	.4064	2.4609	1.9600	.7552	2.4148	2.5878	21.0722	33.5564	3.9922	.7129	1.3326
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.0100	.7174	2.5037	2.6584	19.6427	32.1514	3.6936	.7523	1.3037
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.0600	.6749	2.5952	2.7309	18.1403	30.7123	3.3949	.7921	1.2745
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.1100	.6271	2.6896	2.8056	16.5515	29.2327	3.0962	.8317	1.2449
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.1600	.5731	2.7872	2.8836	14.8590	27.7046	2.7976	.8703	1.2148
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.2100	.5118	2.8885	2.9649	13.0391	26.1180	2.4989	.9066	1.1841
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.2600	.4417	2.9942	3.0506	11.0590	24.4601	2.2002	.9394	1.1524
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.3100	.3606	3.1055	3.1429	8.8717	22.7149	1.9016	.9667	1.1194
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.3600	.2649	3.2234	3.2447	6.4050	20.8557	1.6029	.9867	1.0842
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.4100	.1492	3.3519	3.3585	3.5420	18.8509	1.3042	.9976	1.0457
3.5	2.4609	1.4336	1.00	.4064	2.4609	2.4600	.0031	3.4971	3.4771	.0725	16.6450	1.0056	1.0000	1.0009
3.5	2.4609	1.4336	1.04	.4297	2.3273	.4300	.0237	.4155	.4141	3.1490	89.2166	13.0287	.1189	2.3660
3.5	2.4609	1.4336	1.04	.4297	2.3273	.4800	.2916	.4644	.5434	31.2906	81.4214	12.7181	.1248	2.3375
3.5	2.4609	1.4336	1.04	.4297	2.3273	.5300	.4057	.5159	.6497	37.4314	77.4429	12.4075	.1310	2.3091
3.5	2.4609	1.4336	1.04	.4297	2.3273	.5800	.4890	.5681	.7450	40.1561	75.0430	12.0969	.1376	2.2806
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6300	.5557	.6209	.8340	41.4154	72.6914	11.7863	.1446	2.2522
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6800	.6111	.6745	.9186	41.9463	70.5769	11.4756	.1520	2.2237
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7300	.6582	.7288	.9999	42.0349	68.4420	11.1650	.1597	2.1952
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7800	.6986	.7838	1.0782	41.8457	66.4407	10.8544	.1680	2.1667
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8300	.7334	.8396	1.1540	41.4656	64.5428	10.5438	.1767	2.1382
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8800	.7635	.8962	1.2284	40.9446	62.7276	10.2332	.1859	2.1096
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9300	.7893	.9536	1.3017	40.3265	61.0799	9.9226	.1956	2.0811
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9800	.8112	.0118	1.3745	39.6176	60.0479	9.6120	.2059	2.0525
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.0300	.8297	1.0709	1.4471	38.8516	59.0426	9.3013	.2167	2.0239
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.0800	.8448	1.1309	1.5198	38.0540	57.6573	8.9907	.2282	1.9952
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.1300	.8569	1.1919	1.5928	37.1727	56.2855	8.6801	.2403	1.9666
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.1800	.8659	1.2539	1.6662	36.2731	54.9225	8.3695	.2530	1.9379
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.2300	.8722	1.3167	1.7401	35.3595	53.6041	8.0589	.2665	1.9092
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.2800	.8758	1.3807	1.8147	34.3758	52.3069	7.7483	.2806	1.8806
3.5	2.4609	1.4336	1.04	.4297	2.3273	1.3300	.8768	1.4457	1.8901	33.4221	[illegible]	[illegible]	[illegible]	[illegible]

3.5	2.4609	1.4336	1.04	.4297	2.3273	.6300	.5557	.6204	.4540	41.1552	75.4610	12.0969	.1376	2.2806
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6400	.6111	.6745	.9068	41.2464	72.6914	11.7863	.1446	2.2522
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6500	.6682	.7286	.9613	41.2969	69.8420	11.4756	.1520	2.2237
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6600	.7256	.7826	1.0522	41.3467	66.9407	11.1650	.1597	2.1952
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6700	.7834	.8366	1.1204	41.4056	65.1428	10.9544	.1680	2.1667
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6800	.8415	.8906	1.1904	40.9444	64.2276	10.7332	.1767	2.1382
3.5	2.4609	1.4336	1.04	.4297	2.3273	.6900	.8999	.9447	1.2507	40.3205	61.5769	9.9226	.1859	2.1096
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7000	.9586	.9987	1.3135	39.6176	60.4879	9.6120	.1956	2.0811
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7100	1.0176	1.0527	1.3751	38.8516	59.4428	9.3013	.2059	2.0525
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7200	1.0769	1.1067	1.4358	38.0340	57.6373	8.9907	.2167	2.0239
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7300	1.1365	1.1608	1.4958	37.1727	56.6695	8.6801	.2282	1.9952
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7400	1.1965	1.2148	1.5552	36.2731	54.9225	8.3695	.2403	1.9666
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7500	1.2569	1.2688	1.6141	35.3393	53.6041	8.0589	.2530	1.9379
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7600	1.3176	1.3228	1.6728	34.3738	52.3069	7.7483	.2665	1.9092
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7700	1.3787	1.3769	1.7312	33.3781	51.0277	7.4377	.2806	1.8804
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7800	1.4402	1.4309	1.7897	32.3529	49.7641	7.1270	.2955	1.8516
3.5	2.4609	1.4336	1.04	.4297	2.3273	.7900	1.5021	1.4849	1.8482	31.2983	48.5136	6.8164	.3112	1.8227
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8000	1.5644	1.5389	1.9069	30.2136	47.2744	6.5058	.3276	1.7938
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8100	1.6272	1.5929	1.9658	29.0977	46.0449	6.1952	.3447	1.7648
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8200	1.6905	1.6469	2.0251	27.9486	44.8237	5.8846	.3626	1.7358
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8300	1.7543	1.7009	2.0849	26.7640	43.6102	5.5740	.3813	1.7067
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8400	1.8186	1.7549	2.1453	25.5406	42.4039	5.2634	.4006	1.6774
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8500	1.8836	1.8089	2.2064	24.2746	41.2053	4.9527	.4205	1.6481
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8600	1.9492	1.8629	2.2684	22.9609	40.0155	4.6421	.4410	1.6186
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8700	2.0156	1.9169	2.3314	21.5935	38.8376	4.3315	.4618	1.5890
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8800	2.0829	1.9709	2.3956	20.1647	37.6765	4.0209	.4828	1.5593
3.5	2.4609	1.4336	1.04	.4297	2.3273	.8900	2.1512	2.0249	2.4613	18.6648	36.5413	3.7103	.5038	1.5294
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9000	2.2208	2.0789	2.5288	17.0813	35.4474	3.3997	.5243	1.4996
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9100	2.2919	2.1329	2.5984	15.3983	34.4226	3.0891	.5441	1.4697
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9200	2.3647	2.1869	2.6706	13.5940	33.4183	2.7784	.5626	1.4396
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9300	2.4396	2.2409	2.7464	11.6383	32.4379	2.4678	.5791	1.4094
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9400	2.5169	2.2949	2.8265	9.4877	32.6161	2.1572	.5927	1.3719
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9500	2.5971	2.3489	2.9130	7.0730	33.5002	1.8466	.6025	1.3378
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9600	2.6807	2.4029	3.0092	4.2603	35.0925	1.5360	.6073	1.3018
3.5	2.4609	1.4336	1.04	.4297	2.3273	.9700	2.7685	2.4569	3.1200	1.0000	37.5000	1.2254	.6060	1.2610
3.5	2.4609	1.4336	1.08	.4545	2.2004	.4600	.0940	.4451	.4522	11.5445	87.1408	12.7324	.1185	2.5432
3.5	2.4609	1.4336	1.08	.4545	2.2004	.5100	.2927	.4941	.5697	29.8563	81.6463	12.4099	.1239	2.5137
3.5	2.4609	1.4336	1.08	.4545	2.2004	.5600	.3970	.5458	.6690	35.3356	77.6150	12.0873	.1296	2.4841
3.5	2.4609	1.4336	1.08	.4545	2.2004	.6100	.4739	.5981	.7574	37.8455	74.5126	11.7648	.1355	2.4545
3.5	2.4609	1.4336	1.08	.4545	2.2004	.6600	.5354	.6510	.8482	39.0506	72.5252	11.4422	.1417	2.4248
3.5	2.4609	1.4336	1.08	.4545	2.2004	.7100	.5864	.7047	.9139	39.5515	70.5242	11.1196	.1483	2.3952
3.5	2.4609	1.4336	1.08	.4545	2.2004	.7600	.6293	.7590	.9854	39.6257	68.6272	10.7971	.1552	2.3655
3.5	2.4609	1.4336	1.08	.4545	2.2004	.8100	.6658	.8141	1.0538	39.4202	66.6607	10.4745	.1624	2.3359
3.5	2.4609	1.4336	1.08	.4545	2.2004	.8600	.6969	.8699	1.1196	39.0207	65.1963	10.1520	.1699	2.3062
3.5	2.4609	1.4336	1.08	.4545	2.2004	.9100	.7233	.9264	1.1844	38.4601	63.2140	9.8294	.1779	2.2764
3.5	2.4609	1.4336	1.08	.4545	2.2004	.9600	.7455	.9838	1.2456	37.8327	62.0995	9.5068	.1862	2.2467
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.0100	.7639	1.0419	1.3064	37.1018	60.0418	9.1843	.1948	2.2169
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.0600	.7787	1.1009	1.3661	36.3032	59.0325	8.8617	.2039	2.1871
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.1100	.7902	1.1608	1.4250	35.4479	57.0650	8.5391	.2134	2.1572
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.1600	.7985	1.2216	1.4831	34.5436	56.0341	8.2166	.2232	2.1273
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.2100	.8038	1.2833	1.5407	33.5957	55.0354	7.8940	.2335	2.0974
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.2600	.8060	1.3460	1.5979	32.6077	53.9658	7.5715	.2442	2.0674
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.3100	.8053	1.4097	1.6548	31.5818	52.9226	7.2489	.2553	2.0373
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.3600	.8017	1.4745	1.7116	30.5190	51.9041	6.9263	.2667	2.0072
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.4100	.7951	1.5403	1.7683	29.4194	50.9089	6.6038	.2785	1.9770
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.4600	.7855	1.6073	1.8252	28.2821	49.9361	6.2812	.2906	1.9467
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.5100	.7729	1.6754	1.8822	27.1056	47.9843	5.9587	.3030	1.9164
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.5600	.7571	1.7446	1.9395	25.8875	46.0649	5.6361	.3155	1.8859
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.6100	.7379	1.8156	1.9972	24.6242	45.1695	5.3135	.3282	1.8552
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.6600	.7153	1.8877	2.0555	23.3115	44.1073	4.9910	.3408	1.8244
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.7100	.6889	1.9614	2.1145	21.9436	43.0861	4.6684	.3534	1.7934
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.7600	.6585	2.0365	2.1744	20.5133	42.1181	4.3459	.3656	1.7621
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.8100	.6236	2.1134	2.2352	19.0113	41.2225	4.0233	.3772	1.7305
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.8600	.5838	2.1921	2.2975	17.4256	41.4302	3.7007	.3880	1.6986
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.9100	.5383	2.2728	2.3614	15.7405	40.7223	3.3782	.3976	1.6662
3.5	2.4609	1.4336	1.08	.4545	2.2004	1.9600	.4863	2.3558	2.4272	13.9343	39.9987	3.0556	.4056	1.6331
3.5	2.4609	1.4336	1.08	.4545	2.2004	2.0100	.4264	2.4414	2.4957	11.9764	40.2207	2.7331	.4115	1.5992
3.5	2.4609	1.4336	1.08	.4545	2.2004	2.0600	.3566	2.5301	2.5677	9.8201	40.6232	2.4105	.4147	1.5646
3.5	2.4609	1.4336	1.08	.4545	2.2004	2.1100	.2734	2.6226	2.6445	7.3933	41.3419	2.0879	.4144	1.5272
3.5	2.4609	1.4336	1.08	.4545	2.2004	2.1600	.1686	2.7201	2.7285	4.6638	50.5729	1.7654	.4099	1.4878
3.5	2.4609	1.4336	1.12	.4810	2.0791	.4900	.1144	.4727	.4754	15.1406	96.4336	12.4214	.1177	2.7264
3.5	2.4609	1.4336	1.12	.4810	2.0791	.5400	.2876	.5234	.5935	29.0377	90.6468	12.0988	.1226	2.6961
3.5	2.4609	1.4336	1.12	.4810	2.0791	.5900	.3839	.5757	.6768	33.0521	87.2254	11.7529	.1277	2.6655
3.5	2.4609	1.4336	1.12	.4810	2.0791	.6400	.4551	.6291	.7707	35.4189	84.2774	11.4143	.1330	2.6346
3.5	2.4609	1.4336	1.12	.4810	2.0791	.6900	.5117	.6841	.8681	36.5692	82.2600	11.0758	.1386	2.6036
3.5	2.4609	1.4336	1.12	.4810	2.0791	.7400	.5585	.7396	.9207	37.0441	80.2427	10.7493	.1443	2.5724
3.5	2.4609	1.4336	1.12	.4810	2.0791	.7900	.5975	.7959	.9936	37.1007	80.1365	10.4144	.1504	2.5411
3.5	2.4609	1.4336	1.12	.4810	2.0791	.8400	.6302	.8544	1.0556	36.8785	80.0303			
3.5	2.4609	1.4336	1.12	.4810	2.0791	.8900	.6566	.9166						

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3.5	2.4609	1.4436	1.20	.5410	1.8484	.9500	.5682	.9556	1.1126	30.8419	66.3361	8.8904	.1488	2.8471
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.0000	.5832	1.0175	1.1778	28.2513	64.9263	8.5320	.1533	2.8137
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.0500	.5982	1.0747	1.2446	25.8438	63.6017	8.1736	.1578	2.7801
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.1000	.6005	1.1324	1.3126	23.6311	62.3556	7.8152	.1623	2.7465
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.1500	.6032	1.1916	1.3856	21.6776	61.1849	7.4568	.1668	2.7128
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.2000	.6020	1.2513	1.4599	20.6427	60.0892	7.0984	.1712	2.6790
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.2500	.5971	1.3117	1.5337	25.5319	59.0715	6.7400	.1755	2.6450
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.3000	.5883	1.3731	1.5071	24.3477	58.1382	6.3816	.1796	2.6109
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.3500	.5755	1.4355	1.5603	23.0700	57.2003	6.0232	.1835	2.5767
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.4000	.5587	1.4986	1.6145	21.7560	56.3745	5.6648	.1871	2.5422
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.4500	.5375	1.5628	1.6667	20.3402	55.6865	5.3064	.1904	2.5074
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.5000	.5116	1.6281	1.7202	18.8340	55.1746	4.9480	.1932	2.4724
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.5500	.4805	1.6946	1.7741	17.2241	55.0985	4.5896	.1954	2.4370
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.6000	.4435	1.7623	1.8287	15.4911	55.5543	4.2312	.1969	2.4011
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.6500	.3993	1.8313	1.8842	13.6048	56.6005	3.8728	.1976	2.3646
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.7000	.3463	1.9018	1.9409	11.5148	57.6374	3.5144	.1972	2.3273
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.7500	.2810	1.9741	1.9994	9.1236	60.4866	3.1560	.1956	2.2890
3.5	2.4609	1.4436	1.20	.5410	1.8484	1.8000	.1947	2.0484	2.0603	6.1739	66.4393	2.7976	.1926	2.2492

3.5	2.4609	1.4436	1.24	.5759	1.7364	.5800	.0656	.5618	.5654	6.4482	87.6971	11.4040	.1135	3.3152
3.5	2.4609	1.4436	1.24	.5759	1.7364	.6300	.2324	.6154	.6538	20.2456	81.6336	11.0336	.1169	3.2809
3.5	2.4609	1.4436	1.24	.5759	1.7364	.6400	.3144	.6656	.7332	24.8110	78.2892	10.6633	.1203	3.2466
3.5	2.4609	1.4436	1.24	.5759	1.7364	.7300	.3726	.7183	.8064	27.0479	75.6703	10.2929	.1238	3.2123
3.5	2.4609	1.4436	1.24	.5759	1.7364	.7800	.4171	.7716	.8750	28.1335	73.7402	9.9226	.1273	3.1778
3.5	2.4609	1.4436	1.24	.5759	1.7364	.8300	.4520	.8256	.9401	28.5699	71.6256	9.5522	.1309	3.1434
3.5	2.4609	1.4436	1.24	.5759	1.7364	.8800	.4794	.8802	1.0023	28.5793	70.1768	9.1819	.1344	3.1088
3.5	2.4609	1.4436	1.24	.5759	1.7364	.9300	.5006	.9354	1.0623	28.2911	68.6408	8.8115	.1379	3.0742
3.5	2.4609	1.4436	1.24	.5759	1.7364	.9800	.5163	.9913	1.1205	27.7831	67.2281	8.4412	.1415	3.0395
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.0300	.5272	1.0479	1.1772	27.1044	65.9265	8.0708	.1449	3.0048
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.0800	.5335	1.1052	1.2327	26.2867	64.7283	7.7005	.1483	2.9699
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.1300	.5354	1.1633	1.2872	25.3509	63.6311	7.3301	.1516	2.9349
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.1800	.5330	1.2221	1.3410	24.3101	62.6373	6.9598	.1547	2.8997
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.2300	.5265	1.2817	1.3941	23.1718	61.7546	6.5894	.1576	2.8644
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.2800	.5156	1.3421	1.4469	21.9391	60.9965	6.2191	.1603	2.8289
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.3300	.5002	1.4034	1.4994	20.6107	60.3853	5.8488	.1627	2.7932
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.3800	.4801	1.4657	1.5518	19.1816	59.9545	5.4784	.1648	2.7572
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.4300	.4548	1.5289	1.6043	17.6413	59.7562	5.1081	.1664	2.7208
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.4800	.4236	1.5931	1.6571	15.9730	59.8723	4.7377	.1674	2.6841
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.5300	.3857	1.6585	1.7104	14.1488	60.4374	4.3674	.1678	2.6468
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.5800	.3393	1.7251	1.7644	12.1216	61.6905	3.9970	.1675	2.6089
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.6300	.2815	1.7931	1.8196	9.7998	64.1065	3.6267	.1663	2.5702
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.6800	.2049	1.8626	1.8764	6.9548	68.6595	3.2563	.1640	2.5303
3.5	2.4609	1.4436	1.24	.5759	1.7364	1.7300	.0686	1.9339	1.9354	2.2695	81.6709	2.8860	.1605	2.4889

3.5	2.4609	1.4436	1.28	.6156	1.6245	.6200	.0633	.6019	.6050	5.8253	87.6709	10.9595	.1121	3.5167
3.5	2.4609	1.4436	1.28	.6156	1.6245	.6700	.2159	.6557	.6666	17.8642	81.6357	10.5773	.1149	3.4812
3.5	2.4609	1.4436	1.28	.6156	1.6245	.7200	.2906	.7061	.7614	21.9773	78.7078	10.1950	.1178	3.4457
3.5	2.4609	1.4436	1.28	.6156	1.6245	.7700	.3427	.7591	.8303	23.9895	76.4957	9.8127	.1207	3.4100
3.5	2.4609	1.4436	1.28	.6156	1.6245	.8200	.3816	.8126	.8965	24.9550	74.6740	9.4304	.1236	3.3743
3.5	2.4609	1.4436	1.28	.6156	1.6245	.8700	.4111	.8668	.9587	25.2946	73.1149	9.0481	.1264	3.3386
3.5	2.4609	1.4436	1.28	.6156	1.6245	.9200	.4333	.9216	1.0187	25.2190	71.8552	8.6658	.1292	3.3027
3.5	2.4609	1.4436	1.28	.6156	1.6245	.9700	.4492	.9770	1.0767	24.8466	70.8600	8.2835	.1318	3.2668
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.0200	.4595	1.0331	1.1330	24.2488	69.9107	7.9012	.1344	3.2307
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.0700	.4646	1.0898	1.1881	23.4705	69.0991	7.5189	.1369	3.1945
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.1200	.4646	1.1473	1.2422	22.5595	68.4257	7.1366	.1391	3.1581
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.1700	.4602	1.2055	1.2954	21.4729	67.9986	6.7543	.1412	3.1216
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.2200	.4508	1.2645	1.3481	20.2792	67.7554	6.3720	.1430	3.0849
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.2700	.4363	1.3243	1.4003	18.9600	67.6655	5.9897	.1445	3.0478
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.3200	.4164	1.3849	1.4522	17.5097	67.6356	5.6074	.1457	3.0105
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.3700	.3906	1.4465	1.5041	15.9144	67.6200	5.2251	.1464	2.9729
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.4200	.3579	1.5090	1.5562	14.1477	67.6401	4.8428	.1466	2.9347
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.4700	.3166	1.5725	1.6086	12.1615	67.6087	4.4605	.1462	2.8961
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.5200	.2641	1.6372	1.6617	9.8542	67.6427	4.0783	.1452	2.8568
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.5700	.1924	1.7033	1.7156	6.9768	72.3629	3.6960	.1433	2.8163
3.5	2.4609	1.4436	1.28	.6156	1.6245	1.6200	.0553	1.7705	1.7715	1.9556	84.2101	3.3137	.1405	2.7747

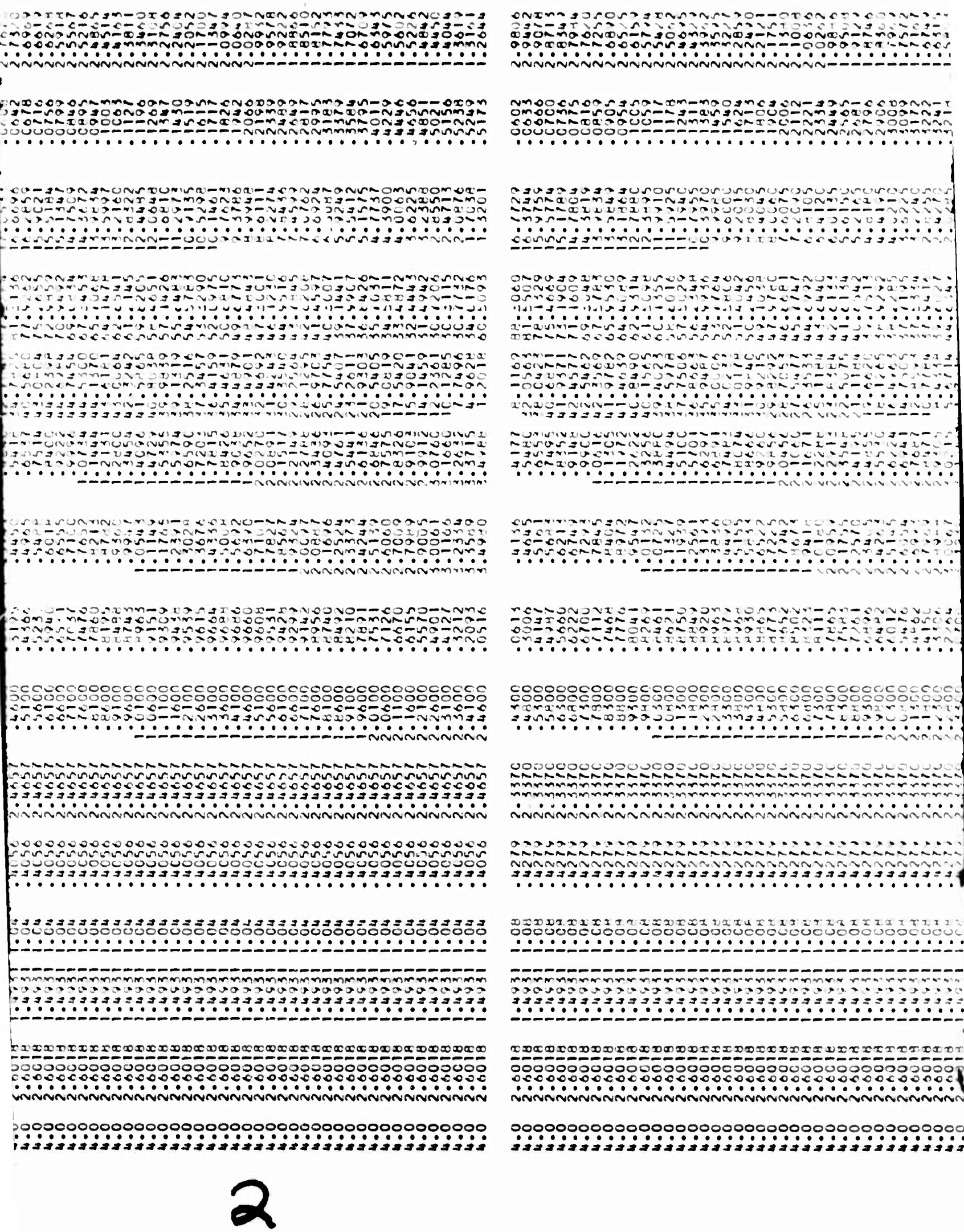
3.5	2.4609	1.4436	1.32	.6623	1.5099	.6700	.0761	.6524	.6566	6.4801	87.6404	10.4172	.1106	3.7166
3.5	2.4609	1.4436	1.32	.6623	1.5099	.7200	.2016	.7046	.7417	15.6447	81.6293	10.0229	.1130	3.6778
3.5	2.4609	1.4436	1.32	.6623	1.5099	.7700	.2660	.7574	.8015	19.0554	78.6269	9.6287	.1153	3.6389
3.5	2.4609	1.4436	1.32	.6623	1.5099	.8200	.3099	.8107	.8666	20.7054	76.6051	9.2344	.1175	3.6000
3.5	2.4609	1.4436	1.32	.6623	1.5099	.8700	.3416	.8646	.9285	21.4351	74.9069	8.8402	.1197	3.5610
3.5	2.4609	1.4436	1.32	.6623	1.5099	.9200	.3641	.9190	.9884	21.5228	73.4071	8.4460	.1218	3.5218
3.5	2.4609	1.4436	1.32	.6623	1.5099	.9700	.3795	.9741	1.0466	21.3566	72.0665	8.0517	.1237	3.4825
3.5	2.4609	1.4436	1.32	.6623	1.5099	1.0200	.3890	1.0299	1.1031	20.9272	70.8228	7.6575	.1255	3.4431
3.5	2.4609	1.4436	1.32	.6623	1.5099	1.0700	.3936	1.0865	1.1585	20.3044	69.6665	7.2632	.1271	3.4035
3.5	2.4609	1.4436	1.32	.6623	1.5099	1.1200	.3942	1.1438	1.2130	19.5355	68.6146	6.8690	.1285	3.3637
3.5	2.4609	1.4436	1.32	.6623	1.5099	1.1700	.3913	1.2018	1.2668	18.6229	67.6744	6.4747	.1296	3.3237
3.5	2.4609	1.4436	1.32	.6623	1.5099	1.2200	.3848	1.2604	1.3198	17.5669	66.8126	6.0805	.1305	3.2836

3.5	2.4609	1.4336	1.24	.5759	1.7364	1.4800	.4236	1.5961	1.6571	15.[illegible]	[illegible]	4.7377	.1674	2.6841
3.5	2.4609	1.4336	1.24	.5759	1.7364	1.5300	.3857	1.6585	1.7104	14.[illegible]	[illegible]	4.5674	.1678	2.6468
3.5	2.4609	1.4336	1.24	.5759	1.7364	1.5800	.3373	1.7251	1.7644	12.1216	61.[illegible]	4.3970	.1675	2.6089
3.5	2.4609	1.4336	1.24	.5759	1.7364	1.6300	.2815	1.7931	1.8196	9.7988	64.1065	4.0267	.1663	2.5702
3.5	2.4609	1.4336	1.24	.5759	1.7364	1.6800	.2047	1.8626	1.8764	6.9548	67.[illegible]	3.6563	.1640	2.5303
3.5	2.4609	1.4336	1.24	.5759	1.7364	1.7300	.0886	1.9339	1.9354	2.2695	71.[illegible]	2.8860	.1605	2.4889
3.5	2.4609	1.4336	1.28	.6156	1.6245	.6200	.0653	.6019	.6050	5.8253	87.[illegible]	10.[illegible]	.1121	3.5167
3.5	2.4609	1.4336	1.28	.6156	1.6245	.6700	.2159	.6537	.6668	17.8642	81.[illegible]	10.5773	.1149	3.4812
3.5	2.4609	1.4336	1.28	.6156	1.6245	.7200	.2906	.7061	.7614	21.9773	78.[illegible]	10.1950	.1178	3.4457
3.5	2.4609	1.4336	1.28	.6156	1.6245	.7700	.3427	.7591	.8309	23.9895	76.[illegible]	9.8127	.1207	3.4100
3.5	2.4609	1.4336	1.28	.6156	1.6245	.8200	.3816	.8126	.8964	24.9550	74.[illegible]	9.4304	.1236	3.3743
3.5	2.4609	1.4336	1.28	.6156	1.6245	.8700	.4111	.8668	.9587	25.2946	72.[illegible]	9.0481	.1264	3.3386
3.5	2.4609	1.4336	1.28	.6156	1.6245	.9200	.4333	.9216	1.0187	25.2190	70.[illegible]	8.6658	.1292	3.3027
3.5	2.4609	1.4336	1.28	.6156	1.6245	.9700	.4492	.9770	1.0767	24.8466	69.[illegible]	8.2835	.1318	3.2668
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.0200	.4595	1.0351	1.1330	24.2488	68.[illegible]	7.9012	.1344	3.2307
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.0700	.4646	1.0898	1.1881	23.4705	67.1991	7.5189	.1369	3.1945
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.1200	.4648	1.1473	1.2422	22.5395	66.[illegible]	7.1366	.1391	3.1581
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.1700	.4602	1.2055	1.2954	21.4729	65.[illegible]	6.7543	.1412	3.1216
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.2200	.4508	1.2645	1.3481	20.2792	64.7354	6.3720	.1430	3.0848
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.2700	.4363	1.3243	1.4003	18.9600	64.[illegible]	5.9897	.1445	3.0478
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.3200	.4164	1.3849	1.4522	17.5097	64.[illegible]	5.6074	.1457	3.0105
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.3700	.3906	1.4465	1.5041	15.9144	64.1200	5.2251	.1464	2.9729
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.4200	.3579	1.5090	1.5562	14.1477	64.[illegible]	4.8428	.1466	2.9347
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.4700	.3168	1.5725	1.6086	12.1615	65.[illegible]	4.4605	.1462	2.8961
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.5200	.2641	1.6372	1.6617	9.8582	66.[illegible]	4.0783	.1452	2.8566
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.5700	.1924	1.7031	1.7158	6.9868	72.[illegible]	3.6960	.1433	2.8163
3.5	2.4609	1.4336	1.28	.6156	1.6245	1.6200	.0553	1.7705	1.7715	1.9556	84.[illegible]	3.3137	.1405	2.7747
3.5	2.4609	1.4336	1.32	.6623	1.5099	.6700	.0761	.6524	.6566	6.4801	87.[illegible]	10.4172	.1106	3.7166
3.5	2.4609	1.4336	1.32	.6623	1.5099	.7200	.2016	.7046	.7317	15.6447	81.[illegible]	10.0229	.1130	3.6798
3.5	2.4609	1.4336	1.32	.6623	1.5099	.7700	.2660	.7574	.8018	19.0554	79.[illegible]	9.6287	.1153	3.6429
3.5	2.4609	1.4336	1.32	.6623	1.5099	.8200	.3099	.8107	.8666	20.7054	76.[illegible]	9.2344	.1175	3.6060
3.5	2.4609	1.4336	1.32	.6623	1.5099	.8700	.3416	.8646	.9288	21.4351	74.[illegible]	8.8402	.1197	3.5690
3.5	2.4609	1.4336	1.32	.6623	1.5099	.9200	.3641	.9190	.9884	21.5928	73.4071	8.4460	.1218	3.5318
3.5	2.4609	1.4336	1.32	.6623	1.5099	.9700	.3793	.9741	1.0460	21.3566	72.[illegible]	8.0517	.1237	3.4945
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.0200	.3880	1.0299	1.1019	20.8272	70.[illegible]	7.6575	.1255	3.4571
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.0700	.3908	1.0863	1.1565	20.0644	69.[illegible]	7.2632	.1271	3.4195
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.1200	.3879	1.1454	1.2100	19.1035	69.[illegible]	6.8690	.1285	3.3817
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.1700	.3793	1.2062	1.2628	17.9629	68.[illegible]	6.4748	.1296	3.3437
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.2200	.3648	1.2598	1.3149	16.6479	68.4120	6.0805	.1305	3.3054
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.2700	.3439	1.3191	1.3666	15.1503	68.4777	5.6863	.1309	3.2667
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.3200	.3156	1.3793	1.4182	13.4445	68.[illegible]	5.2920	.1310	3.2277
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.3700	.2781	1.4404	1.4698	11.4750	70.1881	4.8978	.1305	3.1881
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.4200	.2279	1.5025	1.5218	9.1171	72.4822	4.5036	.1295	3.1479
3.5	2.4609	1.4336	1.32	.6623	1.5099	1.4700	.1544	1.5657	1.5743	5.9965	77.[illegible]	4.1093	.1279	3.1068
3.5	2.4609	1.4336	1.36	.7206	1.3877	.7300	.0740	.7137	.7174	5.7874	86.[illegible]	9.7697	.1088	3.9139
3.5	2.4609	1.4336	1.36	.7206	1.3877	.7800	.1786	.7663	.7862	12.8989	82.[illegible]	9.3635	.1106	3.8758
3.5	2.4609	1.4336	1.36	.7206	1.3877	.8300	.2316	.8195	.8508	15.5901	79.7465	8.9573	.1123	3.8376
3.5	2.4609	1.4336	1.36	.7206	1.3877	.8800	.2659	.8733	.9122	16.8109	77.[illegible]	8.5511	.1139	3.7992
3.5	2.4609	1.4336	1.36	.7206	1.3877	.9300	.2883	.9276	.9711	17.2240	76.[illegible]	8.1449	.1153	3.7607
3.5	2.4609	1.4336	1.36	.7206	1.3877	.9800	.3017	.9825	1.0280	17.1091	75.[illegible]	7.7387	.1165	3.7220
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.0300	.3072	1.0381	1.0833	16.6084	74.1242	7.3325	.1176	3.6831
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.0800	.3056	1.0944	1.1374	15.7979	73.4797	6.9263	.1184	3.6440
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.1300	.2968	1.1512	1.1902	14.7149	73.1564	6.5202	.1190	3.6047
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.1800	.2804	1.2088	1.2425	13.3666	73.[illegible]	6.1140	.1192	3.5650
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.2300	.2553	1.2672	1.2942	11.7274	73.[illegible]	5.7078	.1191	3.5250
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.2800	.2192	1.3263	1.3456	9.7163	75.[illegible]	5.3016	.1186	3.4844
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.3300	.1657	1.3863	1.3971	7.1003	78.[illegible]	4.8954	.1176	3.4433
3.5	2.4609	1.4336	1.36	.7206	1.3877	1.3800	.0620	1.4473	1.4487	2.5727	85.1465	4.4892	.1161	3.4014
3.5	2.4609	1.4336	1.40	.8035	1.2446	.8100	.0498	.7905	.7960	5.5216	87.[illegible]	[illegible]	.1066	4.0999
3.5	2.4609	1.4336	1.40	.8035	1.2446	.8600	.1377	.8498	.8606	9.0995	83.[illegible]	[illegible]	.1077	4.0613
3.5	2.4609	1.4336	1.40	.8035	1.2446	.9100	.1757	.9057	.9203	10.9299	81.4573	8.0900	.1086	4.0205
3.5	2.4609	1.4336	1.40	.8035	1.2446	.9600	.1956	.9581	.9778	11.5149	80.[illegible]	7.6718	.1094	3.9805
3.5	2.4609	1.4336	1.40	.8035	1.2446	1.0100	.2031	1.0134	1.0334	11.3691	79.[illegible]	[illegible]	.1099	3.9402
3.5	2.4609	1.4336	1.40	.8035	1.2446	1.0600	.1977	1.0688	1.0876	10.6699	78.[illegible]	6.8355	.1102	3.8997
3.5	2.4609	1.4336	1.40	.8035	1.2446	1.1100	.1853	1.1251	1.1407	[illegible]	79.1848	6.4174	.1102	3.8589
3.5	2.4609	1.4336	1.40	.8035	1.2446	1.1600	.1573	1.1821	1.1926	[illegible]	[illegible]	5.9993	.1099	3.8177
3.5	2.4609	1.4336	1.40	.8035	1.2446	1.2100	.1065	1.2398	1.2446	5.0312	[illegible]	5.5811	.1092	3.7761

LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.2

M1	M1o	DELMAX	DEL	XMIN	XMAX	X(M2Uo)	Y(M2Vo)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
4.0	2.6018	1.4931	1.00	.3844	2.6018	.3900	.1082	.3747	.3888	15.5060	87.1993	17.3220	.0614	2.5613
4.0	2.6018	1.4931	1.00	.3844	2.6018	.4400	.3356	.4255	.5351	27.3300	81.1769	16.9530	.0650	2.5276
4.0	2.6018	1.4931	1.00	.3844	2.6018	.4900	.4566	.4770	.6520	42.9808	77.7989	16.5840	.0689	2.4940
4.0	2.6018	1.4931	1.00	.3844	2.6018	.5400	.5472	.5293	.7535	45.3800	75.1360	16.2150	.0731	2.4603
4.0	2.6018	1.4931	1.00	.3844	2.6018	.5900	.6208	.5823	.8452	46.4573	72.6506	15.8460	.0776	2.4266
4.0	2.6018	1.4931	1.00	.3844	2.6018	.6400	.6829	.6361	.9302	46.8582	70.2064	15.4771	.0824	2.3930
4.0	2.6018	1.4931	1.00	.3844	2.6018	.6900	.7365	.6906	1.0101	46.8659	68.4319	15.1081	.0876	2.3593
4.0	2.6018	1.4931	1.00	.3844	2.6018	.7400	.7832	.7466	1.0863	46.6251	67.1844	14.7391	.0932	2.3256
4.0	2.6018	1.4931	1.00	.3844	2.6018	.7900	.8243	.8023	1.1595	46.2178	65.5355	14.3701	.0992	2.2919
4.0	2.6018	1.4931	1.00	.3844	2.6018	.8400	.8606	.8594	1.2303	45.6935	63.5657	14.0012	.1056	2.2582
4.0	2.6018	1.4931	1.00	.3844	2.6018	.8900	.8926	.9174	1.2993	45.0838	62.4602	13.6322	.1125	2.2245
4.0	2.6018	1.4931	1.00	.3844	2.6018	.9400	.9206	.9764	1.3666	44.4098	61.4081	13.2632	.1200	2.1907
4.0	2.6018	1.4931	1.00	.3844	2.6018	.9900	.9456	1.0363	1.4331	43.6859	59.6007	12.8942	.1280	2.1570
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.0400	.9672	1.0973	1.4985	42.9221	58.2309	12.5252	.1367	2.1232
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.0900	.9858	1.1593	1.5631	42.1257	56.8930	12.1563	.1461	2.0895
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.1400	1.0016	1.2224	1.6272	41.3015	55.5821	11.7873	.1562	2.0557
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.1900	1.0147	1.2866	1.6909	40.4534	54.2941	11.4183	.1671	2.0219
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.2400	1.0252	1.3520	1.7543	39.5839	53.0253	11.0493	.1789	1.9881
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.2900	1.0333	1.4187	1.8177	38.6947	51.7724	10.6803	.1917	1.9543
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.3400	1.0389	1.4866	1.8811	37.7869	50.5327	10.3114	.2055	1.9205
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.3900	1.0422	1.5558	1.9446	36.8612	49.3033	9.9424	.2205	1.8866
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.4400	1.0431	1.6265	2.0083	35.9177	48.0819	9.5734	.2367	1.8527
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.4900	1.0416	1.6986	2.0725	34.9563	46.8660	9.2044	.2543	1.8188
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.5400	1.0378	1.7722	2.1371	33.9765	45.6536	8.8354	.2733	1.7849
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.5900	1.0317	1.8474	2.2022	32.9774	44.4423	8.4665	.2939	1.7509
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.6400	1.0231	1.9243	2.2680	31.9579	43.2300	8.0975	.3162	1.7169
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.6900	1.0121	2.0029	2.3346	30.9167	42.0145	7.7285	.3403	1.6828
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.7400	.9986	2.0834	2.4021	29.8519	40.7936	7.3595	.3665	1.6487
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.7900	.9825	2.1658	2.4706	28.7614	39.5650	6.9906	.3947	1.6145
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.8400	.9637	2.2503	2.5403	27.6426	38.3261	6.6216	.4252	1.5803
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.8900	.9420	2.3370	2.6112	26.4925	37.0744	6.2526	.4580	1.5459
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.9400	.9173	2.4260	2.6835	25.3074	35.8070	5.8836	.4934	1.5115
4.0	2.6018	1.4931	1.00	.3844	2.6018	1.9900	.8895	2.5174	2.7574	24.0828	34.5206	5.5146	.5312	1.4770
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.0400	.8581	2.6115	2.8331	22.8135	33.2117	5.1457	.5716	1.4423
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.0900	.8230	2.7084	2.9106	21.4927	31.8761	4.7767	.6145	1.4075
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.1400	.7837	2.8084	2.9908	20.1124	30.5090	4.4077	.6597	1.3724
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.1900	.7397	2.9118	3.0734	18.6623	29.1043	4.0387	.7069	1.3371
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.2400	.6904	3.0188	3.1589	17.1289	27.6565	3.6697	.7555	1.3014
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.2900	.6346	3.1300	3.2480	15.4998	26.1557	3.3008	.8047	1.2652
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.3400	.5720	3.2459	3.3414	13.7561	24.5913	2.9318	.8531	1.2284
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.3900	.5001	3.3673	3.4402	11.8193	22.9444	2.5628	.8991	1.1907
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.4400	.4169	3.4955	3.5461	9.6449	21.2105	2.1938	.9400	1.1517
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.4900	.3183	3.6326	3.6622	7.2354	19.3475	1.8248	.9726	1.1106
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.5400	.1981	3.7826	3.7941	4.4598	17.3187	1.4559	.9933	1.0668
4.0	2.6018	1.4931	1.00	.3844	2.6018	2.5900	.0438	3.9543	3.9547	.9682	15.0562	1.0869	.9999	1.0140
4.0	2.6018	1.4931	1.04	.4056	2.4657	.4100	.0924	.3941	.4046	12.7040	87.5284	17.0533	.0608	2.7670
4.0	2.6018	1.4931	1.04	.4056	2.4657	.4600	.3195	.4450	.5418	34.7825	81.2136	16.6696	.0642	2.7320
4.0	2.6018	1.4931	1.04	.4056	2.4657	.5100	.4366	.4965	.6547	40.5680	77.5262	16.2859	.0678	2.6969
4.0	2.6018	1.4931	1.04	.4056	2.4657	.5600	.5237	.5488	.7514	43.0804	75.2655	15.9021	.0716	2.6619
4.0	2.6018	1.4931	1.04	.4056	2.4657	.6100	.5940	.6018	.8400	44.2398	72.9559	15.5184	.0756	2.6268
4.0	2.6018	1.4931	1.04	.4056	2.4657	.6600	.6555	.6555	.9222	44.6284	70.4492	15.1347	.0799	2.5918
4.0	2.6018	1.4931	1.04	.4056	2.4657	.7100	.7037	.7100	.9998	44.7454	68.0438	14.7509	.0846	2.5567
4.0	2.6018	1.4931	1.04	.4056	2.4657	.7600	.7476	.7652	1.0734	44.5300	65.6453	14.3672	.0895	2.5216
4.0	2.6018	1.4931	1.04	.4056	2.4657	.8100	.7880	.8215	1.1444	44.1370	63.2668	13.9834	.0947	2.4865
4.0	2.6018	1.4931	1.04	.4056	2.4657	.8600	.8255	.8792	1.2131	43.6181	60.9278	13.5997	.1003	2.4514
4.0	2.6018	1.4931	1.04	.4056	2.4657	.9100	.8608	.9386	1.2800	43.0068	58.6241	13.2160	.1063	2.4163
4.0	2.6018	1.4931	1.04	.4056	2.4657	.9600	.8945	.9997	1.3454	42.3242	56.3145	12.8322	.1127	2.3811
4.0	2.6018	1.4931	1.04	.4056	2.4657	1.0100	.9268	1.0629	1.4097	41.5965	54.0205	12.4485	.1196	2.3460
4.0	2.6018	1.4931	1.04	.4056	2.4657	1.0600	.9581	1.1284	1.4732	40.8458	51.7551	12.0648	.1269	2.3108
4.0	2.6018	1.4931	1.04	.4056	2.4657	1.1100	.9886	1.1965	1.5365	40.0849	49.5278	11.6810	.1347	2.2756



4.0	2.6018	1.4931	1.16	.4766	2.0975	1.6800	.6400	1.9061	2.0498	20.8546	48.5787	5.8187	.1519	2.4706
4.0	2.6018	1.4931	1.16	.4766	2.0975	1.7300	.6074	1.9745	2.0979	19.3451	48.4662	5.3907	.1557	2.4273
4.0	2.6018	1.4931	1.16	.4766	2.0975	1.7800	.5626	2.0544	2.1570	17.7446	48.3385	4.9626	.1590	2.3877
4.0	2.6018	1.4931	1.16	.4766	2.0975	1.8300	.5259	2.1310	2.2174	16.0344	48.1770	4.5346	.1617	2.3455
4.0	2.6018	1.4931	1.16	.4766	2.0975	1.8800	.4753	2.2075	2.2790	14.1870	48.4208	4.1066	.1636	2.3026
4.0	2.6018	1.4931	1.16	.4766	2.0975	1.9300	.4159	2.2901	2.3427	12.1603	49.4274	3.6786	.1644	2.2588
4.0	2.6018	1.4931	1.16	.4766	2.0975	1.9800	.3447	2.3732	2.4090	9.8812	51.2345	3.2506	.1639	2.2158
4.0	2.6018	1.4931	1.16	.4766	2.0975	2.0300	.2561	2.4573	2.4788	7.1896	56.4182	2.8226	.1618	2.1670
4.0	2.6018	1.4931	1.16	.4766	2.0975	2.0800	.1254	2.5472	2.5538	3.4507	69.5141	2.3946	.1577	2.1175
4.0	2.6018	1.4931	1.20	.5039	1.9845	.5100	.0916	.4923	.5002	10.1768	87.1898	15.6837	.0589	3.6526
4.0	2.6018	1.4931	1.20	.5039	1.9845	.5600	.2725	.5436	.6045	25.9453	81.4629	15.2409	.0612	3.6120
4.0	2.6018	1.4931	1.20	.5039	1.9845	.6100	.3676	.5955	.6955	31.0772	78.2343	14.7981	.0636	3.5714
4.0	2.6018	1.4931	1.20	.5039	1.9845	.6600	.4372	.6480	.7773	33.5223	75.6986	14.3554	.0661	3.5307
4.0	2.6018	1.4931	1.20	.5039	1.9845	.7100	.4922	.7012	.8531	34.7294	73.5334	13.9126	.0687	3.4900
4.0	2.6018	1.4931	1.20	.5039	1.9845	.7600	.5370	.7550	.9244	35.2450	71.6081	13.4698	.0715	3.4493
4.0	2.6018	1.4931	1.20	.5039	1.9845	.8100	.5741	.8094	.9921	35.3296	69.8548	13.0270	.0741	3.4085
4.0	2.6018	1.4931	1.20	.5039	1.9845	.8600	.6050	.8646	1.0571	35.1247	68.2332	12.5843	.0769	3.3677
4.0	2.6018	1.4931	1.20	.5039	1.9845	.9100	.6304	.9204	1.1198	34.7142	66.7171	12.1415	.0798	3.3269
4.0	2.6018	1.4931	1.20	.5039	1.9845	.9600	.6512	.9770	1.1806	34.1504	65.2888	11.6987	.0829	3.2860
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.0100	.6677	1.0344	1.2400	33.4677	63.9360	11.2560	.0859	3.2451
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.0600	.6802	1.0925	1.2981	32.6892	62.6498	10.8132	.0891	3.2041
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.1100	.6891	1.1514	1.3553	31.8307	61.4243	10.3704	.0923	3.1630
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.1600	.6943	1.2112	1.4116	30.9028	60.2556	9.9276	.0956	3.1219
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.2100	.6961	1.2718	1.4673	29.9127	59.1418	9.4849	.0989	3.0807
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.2600	.6945	1.3334	1.5225	28.8648	58.0827	9.0421	.1023	3.0394
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.3100	.6896	1.3958	1.5774	27.7616	57.0800	8.5993	.1056	2.9981
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.3600	.6811	1.4592	1.6320	26.6035	56.1376	8.1565	.1089	2.9566
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.4100	.6692	1.5236	1.6865	25.3896	55.2621	7.7138	.1121	2.9149
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.4600	.6536	1.5891	1.7411	24.1170	54.4633	7.2710	.1153	2.8731
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.5100	.6342	1.6557	1.7958	22.7813	53.7560	6.8282	.1182	2.8311
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.5600	.6106	1.7234	1.8507	21.3761	53.1619	6.3854	.1210	2.7888
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.6100	.5826	1.7924	1.9061	19.8922	52.7150	5.9427	.1235	2.7462
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.6600	.5495	1.8627	1.9621	18.3171	52.4577	5.4999	.1256	2.7033
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.7100	.5108	1.9343	2.0188	16.6330	52.4725	5.0571	.1273	2.6599
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.7600	.4655	2.0076	2.0766	14.8139	52.8233	4.6143	.1284	2.6159
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.8100	.4119	2.0825	2.1357	12.8192	53.9137	4.1716	.1287	2.5712
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.8600	.3474	2.1593	2.1967	10.5783	56.0051	3.7288	.1282	2.5254
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.9100	.2664	2.2384	2.2601	7.9396	60.1979	3.2860	.1265	2.4782
4.0	2.6018	1.4931	1.20	.5039	1.9845	1.9600	.1498	2.3202	2.3270	4.3718	70.1507	2.8432	.1235	2.4284
4.0	2.6018	1.4931	1.24	.5334	1.8748	.5400	.0905	.5220	.5293	9.5105	87.1171	15.2586	.0583	3.8848
4.0	2.6018	1.4931	1.24	.5334	1.8748	.5900	.2596	.5735	.6265	23.7494	81.5453	14.8011	.0604	3.8468
4.0	2.6018	1.4931	1.24	.5334	1.8748	.6400	.3488	.6255	.7124	28.5922	78.3809	14.3436	.0625	3.8047
4.0	2.6018	1.4931	1.24	.5334	1.8748	.6900	.4136	.6781	.7906	30.9386	75.8992	13.8860	.0647	3.7626
4.0	2.6018	1.4931	1.24	.5334	1.8748	.7400	.4642	.7314	.8634	32.1026	73.7857	13.4285	.0669	3.7204
4.0	2.6018	1.4931	1.24	.5334	1.8748	.7900	.5051	.7853	.9320	32.5924	71.9128	12.9710	.0692	3.6782
4.0	2.6018	1.4931	1.24	.5334	1.8748	.8400	.5383	.8398	.9975	32.6547	70.2145	12.5134	.0716	3.6360
4.0	2.6018	1.4931	1.24	.5334	1.8748	.8900	.5654	.8950	1.0603	32.4251	68.6517	12.0559	.0740	3.5937
4.0	2.6018	1.4931	1.24	.5334	1.8748	.9400	.5870	.9509	1.1211	31.9849	67.1996	11.5984	.0764	3.5514
4.0	2.6018	1.4931	1.24	.5334	1.8748	.9900	.6039	1.0075	1.1802	31.3850	65.8418	11.1408	.0789	3.5090
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.0400	.6165	1.0649	1.2379	30.6591	64.5677	10.6833	.0814	3.4665
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.0900	.6250	1.1230	1.2945	29.8294	63.3703	10.2258	.0839	3.4240
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.1400	.6296	1.1819	1.3501	28.9109	62.2460	9.7682	.0864	3.3814
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.1900	.6304	1.2416	1.4050	27.9136	61.1938	9.3107	.0888	3.3387
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.2400	.6276	1.3021	1.4594	26.8435	60.2157	8.8532	.0913	3.2958
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.2900	.6209	1.3635	1.5133	25.7037	59.3165	8.3956	.0937	3.2528
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.3400	.6105	1.4259	1.5669	24.4947	58.5047	7.9381	.0959	3.2097
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.3900	.5962	1.4892	1.6204	23.2146	57.7933	7.4806	.0981	3.1664
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.4400	.5777	1.5535	1.6737	21.8591	57.1922	7.0230	.1001	3.1229
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.4900	.5547	1.6188	1.7273	20.4211	56.7602	6.5655	.1018	3.0791
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.5400	.5269	1.6852	1.7812	18.8896	56.5110	6.1080	.1033	3.0349
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.5900	.4937	1.7529	1.8354	17.2489	56.5213	5.6504	.1044	2.9904
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.6400	.4540	1.8217	1.8903	15.4751	56.8945	5.1929	.1051	2.9455
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.6900	.4067	1.8920	1.9460	13.5307	57.6259	4.7354	.1053	2.8996
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.7400	.3493	1.9638	2.0030	11.3509	59.0464	4.2778	.1048	2.8531
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.7900	.2771	2.0374	2.0616	8.8012	63.1076	3.8203	.1036	2.8054
4.0	2.6018	1.4931	1.24	.5334	1.8748	1.8400	.1763	2.1129	2.1226	5.4728	70.4503	3.3628	.1014	2.7560
4.0	2.6018	1.4931	1.28	.5659	1.7670	.5700	.1671	.5518	.5556	6.7153	87.6760	14.8159	.0576	4.1325
4.0	2.6018	1.4931	1.28	.5659	1.7670	.6200	.2394	.6034	.6468	21.1142	81.8879	14.3436	.0598	4.0888
4.0	2.6018	1.4931	1.28	.5659	1.7670	.6700	.3244	.6555	.7284	25.4550	78.7421	13.8714	.0612	4.0452
4.0	2.6018	1.4931	1.28	.5659	1.7670	.7200	.3850	.7084	.8032	28.1367	76.3016	13.3990	.0631	4.0017
4.0	2.6018	1.4931	1.28	.5659	1.7670	.7700	.4317	.7616	.8732	29.2740	74.2588	12.9267	.0650	3.9581
4.0	2.6018	1.4931	1.28	.5659	1.7670	.8200	.4647	.8156	.9394	29.7510	72.4245	12.4544	.0670	3.9144
4.0	2.6018	1.4931	1.28	.5659	1.7670	.8700	.4921	.8702	1.0027	29.7217	70.7220	11.9821	.0689	3.8706
4.0	2.6018	1.4931	1.28	.5659	1.7670	.9200	.5216	.9255	1.0637	29.5446	69.1038	11.5098	.0709	3.8269
4.0	2.6018	1.4931	1.28	.5659	1.7670	.9700	.5249	.9814	1.1227	29.0570	67.5361	11.0375	.0728	3.7830

5

LOOP BRANCH (*) FROM 1 TO 5)

GAMMA = 1.2

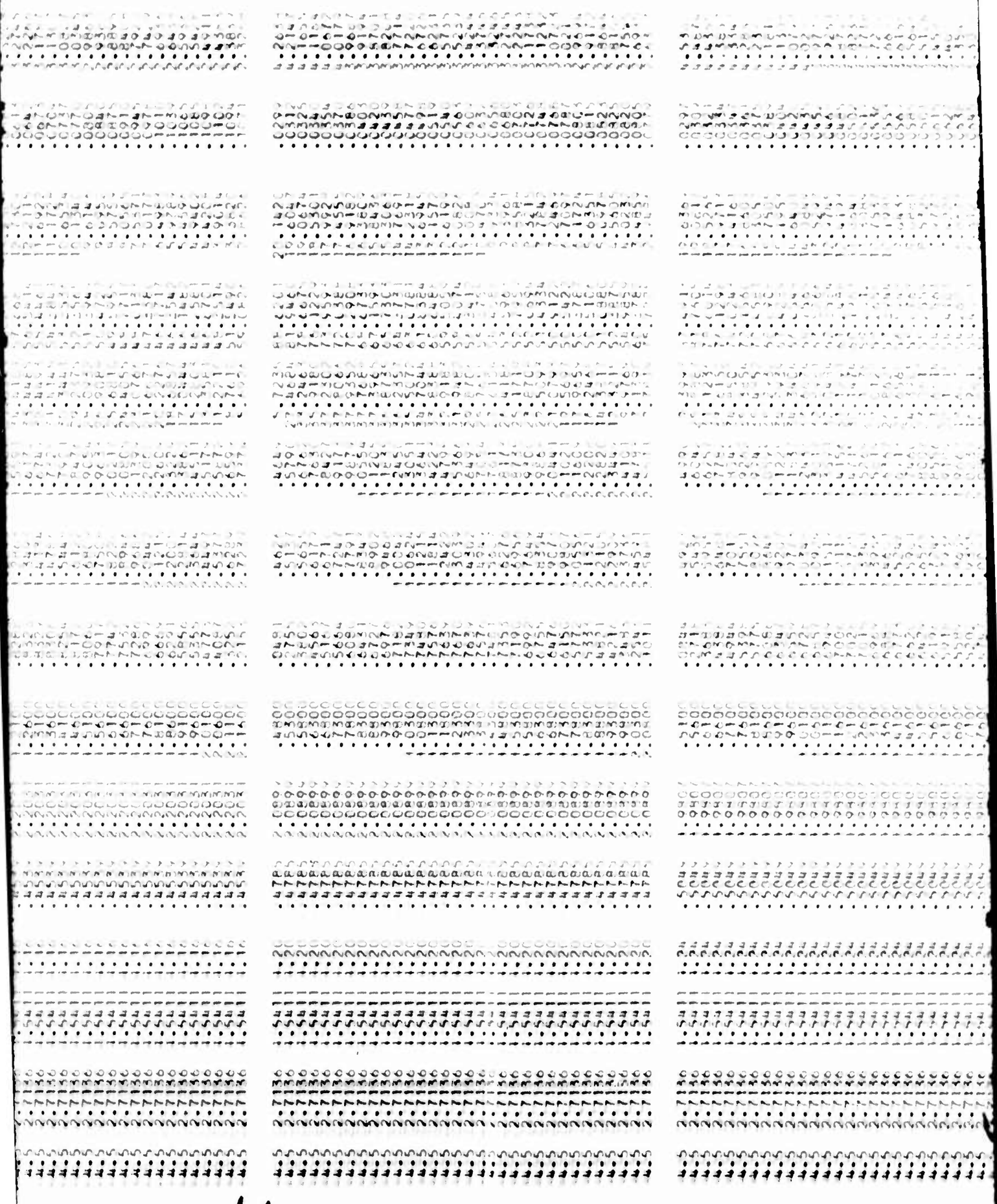
M1	M1∞	DELMAX	DEL	XMIN	XMAX	X(M2L∞)	Y(M2L∞)	M2∞	THETA	SIGMA	PR21	PTR21	TR21
4.5	2.7136	1.5411	1.00	.3685	2.7136	.3700	.2575	.3591	.4694	.5436	21.4467	.0310	2.3864
4.5	2.7136	1.5411	1.00	.3685	2.7136	.4200	.3369	.4055	.5100	.5946	21.0589	.0330	2.3657
4.5	2.7136	1.5411	1.00	.3685	2.7136	.4700	.4067	.4573	.5641	.6477	21.0012	.0351	2.3084
4.5	2.7136	1.5411	1.00	.3685	2.7136	.5200	.4611	.5065	.6146	.7026	20.9457	.0374	2.3461
4.5	2.7136	1.5411	1.00	.3685	2.7136	.5700	.4933	.5626	.6744	.7680	20.1.557	.0399	2.4235
4.5	2.7136	1.5411	1.00	.3685	2.7136	.6200	.5054	.6164	.7336	.8340	19.8780	.0426	2.4821
4.5	2.7136	1.5411	1.00	.3685	2.7136	.6700	.7625	.6710	1.0165	.8955	19.5002	.0455	2.5411
4.5	2.7136	1.5411	1.00	.3685	2.7136	.7200	.4126	.7265	1.0955	.9756	19.1225	.0486	2.5700
4.5	2.7136	1.5411	1.00	.3685	2.7136	.7700	.8564	.7822	1.1714	1.0542	18.8447	.0520	2.6000
4.5	2.7136	1.5411	1.00	.3685	2.7136	.8200	.8962	.8402	1.2447	1.1317	17.9570	.0556	2.6142
4.5	2.7136	1.5411	1.00	.3685	2.7136	.8700	.9313	.8945	1.3102	1.2006	17.5092	.0595	2.5715
4.5	2.7136	1.5411	1.00	.3685	2.7136	.9200	.9624	.9577	1.3660	1.2577	17.0615	.0636	2.5575
4.5	2.7136	1.5411	1.00	.3685	2.7136	.9700	.9901	1.0140	1.4187	1.3070	16.9138	.0680	2.4867
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.0200	1.0146	1.0714	1.4694	1.3526	16.1660	.0727	2.4554
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.0700	1.0361	1.1312	1.5208	1.3965	15.7184	.0777	2.4150
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.1200	1.0548	1.1956	1.5755	1.4405	15.2705	.0831	2.3741
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.1700	1.0707	1.2702	1.6421	1.4960	14.8225	.0889	2.3332
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.2200	1.0844	1.3643	1.7478	1.5814	14.3750	.0951	2.2923
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.2700	1.0955	1.4856	1.8530	1.6770	13.9274	.1018	2.2514
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.3200	1.1043	1.6472	2.0166	1.8254	13.4795	.1155	2.2105
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.3700	1.1107	1.8548	2.2197	2.0090	13.0318	.1250	2.1696
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.4200	1.1150	2.0181	2.3771	2.1510	12.5841	.1353	2.1287
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.4700	1.1170	2.0971	2.4522	2.2190	12.1365	.1466	2.0877
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.5200	1.1167	2.1014	2.4564	2.2230	11.6888	.1590	2.0468
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.5700	1.1143	2.1044	2.4592	2.2256	11.2408	.1727	2.0059
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.6200	1.1097	2.1065	2.4612	2.2275	10.7931	.1877	1.9649
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.6700	1.1029	2.1079	2.4625	2.2287	10.3454	.2042	1.9240
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.7200	1.0937	2.1087	2.4633	2.2295	9.8976	.2224	1.8831
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.7700	1.0822	2.1091	2.4637	2.2298	9.4499	.2424	1.8421
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.8200	1.0684	2.1093	2.4639	2.2300	9.0021	.2645	1.8012
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.8700	1.0521	2.1093	2.4639	2.2300	8.5544	.2888	1.7603
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.9200	1.0332	2.1092	2.4638	2.2299	8.1066	.3156	1.7193
4.5	2.7136	1.5411	1.00	.3685	2.7136	1.9700	1.0116	2.1090	2.4636	2.2297	7.6589	.3451	1.6784
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.0200	.9871	2.1087	2.4633	2.2295	7.2111	.3776	1.6375
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.0700	.9596	2.1084	2.4630	2.2292	6.7634	.4132	1.5965
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.1200	.9291	2.1080	2.4626	2.2288	6.3156	.4523	1.5556
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.1700	.8954	2.1076	2.4622	2.2284	5.8679	.4951	1.5147
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.2200	.8585	2.1071	2.4617	2.2279	5.4202	.5419	1.4737
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.2700	.8183	2.1066	2.4612	2.2274	4.9724	.5931	1.4328
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.3200	.7747	2.1060	2.4606	2.2268	4.5247	.6490	1.3919
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.3700	.7275	2.1054	2.4600	2.2262	4.0770	.7100	1.3509
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.4200	.6767	2.1048	2.4594	2.2256	3.6292	.7766	1.3100
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.4700	.6220	2.1041	2.4587	2.2249	3.1815	.8494	1.2691
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.5200	.5633	2.1034	2.4580	2.2242	2.7338	.9291	1.2281
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.5700	.5004	2.1027	2.4573	2.2235	2.2860	1.0164	1.1872
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.6200	.4330	2.1020	2.4566	2.2228	1.8383	1.1122	1.1463
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.6700	.3609	2.1013	2.4559	2.2221	1.3905	1.2178	1.1053
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.7200	.2837	2.1005	2.4551	2.2213	.9428	1.3350	1.0644
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.7700	.2011	2.0998	2.4544	2.2206	.4951	1.4650	1.0235
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.8200	.1125	2.0991	2.4537	2.2199	.0473	1.6050	.9825
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.8700	.0174	2.0984	2.4530	2.2192	.3996	1.7564	.9416
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.9200	.0853	2.0978	2.4524	2.2186	.8518	1.9206	.9007
4.5	2.7136	1.5411	1.00	.3685	2.7136	2.9700	.1858	2.0973	2.4519	2.2181	1.3041	2.0991	.8597
4.5	2.7136	1.5411	1.00	.3685	2.7136	3.0200	.2925	2.0969	2.4515	2.2177	1.7563	2.2926	.8188
4.5	2.7136	1.5411	1.00	.3685	2.7136	3.0700	.4060	2.0966	2.4512	2.2174	2.2086	2.5048	.7778

4.5	2.7136	1.5411	1.04	.3883	2.5753	.4800	.3236	.4253	.5240	36.3329	41.7100	21.2022	.0526	3.1831
4.5	2.7136	1.5411	1.04	.3883	2.5753	.4900	.4483	.4769	.6463	42.4533	78.[illegible]331	20.7366	.0346	3.1407
4.5	2.7136	1.5411	1.04	.3883	2.5753	.5000	.5405	.5291	.7486	45.0289	75.7017	20.2709	.0367	3.0982
4.5	2.7136	1.5411	1.04	.3883	2.5753	.5900	.6152	.5821	.8410	46.1972	73.4554	19.8053	.0389	3.0557
4.5	2.7136	1.5411	1.04	.3883	2.5753	.6400	.6780	.6359	.9264	46.6532	71.4527	19.3396	.0414	3.0133
4.5	2.7136	1.5411	1.04	.3883	2.5753	.6900	.7322	.6904	1.0067	46.6778	69.6210	18.8740	.0440	2.9708
4.5	2.7136	1.5411	1.04	.3883	2.5753	.7400	.7793	.7458	1.0831	46.4835	67.9167	18.4083	.0467	2.9283
4.5	2.7136	1.5411	1.04	.3883	2.5753	.7900	.8208	.8020	1.1566	46.0960	66.3116	17.9427	.0497	2.8858
4.5	2.7136	1.5411	1.04	.3883	2.5753	.8400	.8574	.8591	1.2277	45.5872	64.7860	17.4770	.0530	2.8433
4.5	2.7136	1.5411	1.04	.3883	2.5753	.8900	.8897	.9172	1.2966	44.9900	63.3254	17.0114	.0564	2.8008
4.5	2.7136	1.5411	1.04	.3883	2.5753	.9400	.9182	.9761	1.3645	44.3263	61.9189	16.5457	.0602	2.7583
4.5	2.7136	1.5411	1.04	.3883	2.5753	.9900	.9431	1.0361	1.4310	43.6111	60.5578	16.0800	.0642	2.7157
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.0400	.9649	1.0970	1.4965	42.8546	59.2355	15.6144	.0685	2.6732
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.0900	.9837	1.1590	1.5612	42.0644	57.9463	15.1487	.0732	2.6307
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.1400	.9996	1.2221	1.6254	41.2458	56.6854	14.6831	.0782	2.5881
4.5	2.7136	1.5411	1.04	.3883	.5753	1.1900	1.0129	1.2864	1.6892	40.4025	55.4489	14.2174	.0837	2.5455
4.5	2.7136	1.5411	1.04	.3883	.5753	1.2400	1.0235	1.3518	1.7528	39.5371	54.2335	13.7518	.0896	2.5029
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.2900	1.0317	1.4184	1.8162	38.6516	53.0361	13.2861	.0959	2.4603
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.3400	1.0374	1.4863	1.8797	37.7471	51.8542	12.8205	.1028	2.4176
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.3900	1.0408	1.5556	1.9433	36.8242	50.6853	12.3548	.1102	2.3750
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.4400	1.0417	1.6262	2.0071	35.8832	49.5275	11.8892	.1183	2.3323
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.4900	1.0404	1.6983	2.0713	34.9238	48.3787	11.4235	.1270	2.2896
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.5400	1.0366	1.7719	2.1359	33.9457	47.2372	10.9579	.1364	2.2468
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.5900	1.0305	1.8471	2.2011	32.9479	46.1015	10.4922	.1465	2.2040
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.6400	1.0220	1.9240	2.2670	31.9293	44.9700	10.0265	.1575	2.1612
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.6900	1.0110	2.0026	2.3336	30.8886	43.8415	9.5609	.1694	2.1183
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.7400	.9975	2.0831	2.4011	29.8238	42.7146	9.0952	.1822	2.0754
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.7900	.9813	2.1655	2.4695	28.7328	41.5884	8.6296	.1960	2.0324
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.8400	.9625	2.2499	2.5391	27.6128	40.4619	8.1639	.2109	1.9893
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.8900	.9407	2.3365	2.6100	26.4609	39.3345	7.6983	.2269	1.9461
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.9400	.9159	2.4255	2.6822	25.2730	38.2059	7.2326	.2439	1.9029
4.5	2.7136	1.5411	1.04	.3883	2.5753	1.9900	.8879	2.5168	2.7560	24.0445	37.0763	6.7670	.2621	1.8595
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.0400	.8563	2.6108	2.8315	22.7699	35.9468	6.3013	.2813	1.8159
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.0900	.8208	2.7076	2.9090	21.4421	34.8194	5.8357	.3016	1.7722
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.1400	.7811	2.8075	2.9886	20.0524	33.6985	5.3700	.3227	1.7282
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.1900	.7366	2.9106	3.0708	18.5895	32.5917	4.9043	.3444	1.6839
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.2400	.6865	3.0174	3.1559	17.0390	31.5130	4.4387	.3663	1.6392
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.2900	.6300	3.1282	3.2444	15.3813	30.4882	3.9730	.3878	1.5940
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.3400	.5656	3.2436	3.3370	13.5894	29.5674	3.5074	.4081	1.5480
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.3900	.4916	3.3645	3.4349	11.6237	28.8564	3.0417	.4259	1.5009
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.4400	.4050	3.4920	3.5398	9.4236	28.4118	2.5761	.4397	1.4522
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.4900	.3007	3.6264	3.6547	6.8848	29.4159	2.1104	.4472	1.4008
4.5	2.7136	1.5411	1.04	.3883	2.5753	2.5400	.1679	3.7779	3.7862	3.7816	35.7599	1.6448	.4458	1.3445

4.5	2.7136	1.5411	1.08	.4090	2.4448	.4100	.0432	.3940	.3962	6.0090	88.[illegible]768	21.3348	.0306	3.4734
4.5	2.7136	1.5411	1.08	.4090	2.4448	.4600	.3097	.4449	.5363	33.9467	81.[illegible]088	20.8512	.0323	3.4297
4.5	2.7136	1.5411	1.08	.4090	2.4448	.5100	.4300	.4964	.6493	40.1376	78.4334	20.3676	.0341	3.3856
4.5	2.7136	1.5411	1.08	.4090	2.4448	.5600	.5186	.5427	.7478	42.8045	75.[illegible]099	19.8841	.0360	3.3415
4.5	2.7136	1.5411	1.08	.4090	2.4448	.6100	.5900	.6016	.8370	44.0447	73.5733	19.4005	.0380	3.2974
4.5	2.7136	1.5411	1.08	.4090	2.4448	.6600	.6498	.6554	.9197	44.5528	71.5813	18.9170	.0402	3.2532
4.5	2.7136	1.5411	1.08	.4090	2.4448	.7100	.7010	.7098	.9975	44.6333	69.7608	18.4334	.0425	3.2091
4.5	2.7136	1.5411	1.08	.4090	2.4448	.7600	.7453	.7651	1.0716	44.4423	68.0685	17.9498	.0450	3.1649
4.5	2.7136	1.5411	1.08	.4090	2.4448	.8100	.7841	.8212	1.1429	44.0679	66.4760	17.4663	.0476	3.1207
4.5	2.7136	1.5411	1.08	.4090	2.4448	.8600	.8179	.8781	1.2119	43.5639	64.9637	16.9827	.0504	3.0765
4.5	2.7136	1.5411	1.08	.4090	2.4448	.9100	.8475	.9359	1.2790	42.9644	63.5172	16.4991	.0534	3.0323
4.5	2.7136	1.5411	1.08	.4090	2.4448	.9600	.8733	.9946	1.3446	42.2924	62.1257	16.0156	.0567	2.9881
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.0100	.8956	1.0543	1.4090	41.5634	60.7808	15.5320	.0601	2.9439
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.0600	.9146	1.1149	1.4725	40.7885	59.4756	15.0484	.0638	2.8996
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.1100	.9306	1.1765	1.5352	39.9753	58.2049	14.5649	.0677	2.8554
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.1600	.9437	1.2391	1.5974	39.1293	56.9641	14.0813	.0719	2.8111
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.2100	.9540	1.3028	1.6591	38.2545	55.7494	13.5978	.0765	2.7668
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.2600	.9617	1.3677	1.7205	37.3535	54.5578	13.1142	.0811	2.7226
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.3100	.9668	1.4337	1.7818	36.4282	53.3864	12.6306	.0862	2.6781
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.3600	.9693	1.5009	1.8431	35.4795	52.2332	12.1471	.0917	2.6337
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.4100	.9694	1.5694	1.9044	34.5079	51.0961	11.6635	.0975	2.5893
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.4600	.9668	1.6391	1.9660	33.5134	49.9736	11.1799	.1037	2.5448
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.5100	.9618	1.7103	2.0278	32.4955	48.8645	10.6964	.1103	2.5003
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.5600	.9542	1.7829	2.0900	31.4532	47.7678	10.2128	.1173	2.4557
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.6100	.9440	1.8570	2.1527	30.3850	46.6829	9.7292	.1247	2.4111
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.6600	.9311	1.9327	2.2160	29.2892	45.6096	9.2457	.1326	2.3664
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.7100	.9155	2.0100	2.2799	28.1635	44.5482	8.7621	.1409	2.3216
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.7600	.8970	2.0890	2.3447	27.0049	43.4986	8.2786	.1497	2.2767
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.8100	.8754	2.1699	2.4104	25.8098	42.4656	7.7950	.1589	2.2317
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.8600	.8506	2.2528	2.4771	24.5740	41.4492	7.3114	.1684	2.1866
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.9100	.8223	2.3377	2.5451	23.2921	40.4551	6.8279	.1784	2.1415
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.9600	.7902	2.4247	2.6144	21.9574	39.4904	6.3443	.1885	2.0964
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.0100	.7540	2.5142	2.6852	20.5616	38.[illegible]664	5.8607	.1988	2.0511
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.0600	.7131	2.6062	2.7579	19.0941	37.[illegible]079	5.3772	.2090	2.0061
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.1100	.6669	2.7009	2.8326	17.5411	36.[illegible]225	4.8936	.2189	1.9576
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.1600	.6146	2.7987	2.9096	15.8[illegible]39	36.[illegible]800	4.4100	.2283	1.9136
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.2100	.5550	2.8999	2.9899	14.0268	35.[illegible]610	[illegible]	[illegible]	[illegible]
4.5	2.7136	1.5411	1.08	.4090	2.4448	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.5	2.7136	1.5411	1.08	.4090	2.4448	1.7600	.8970	2.0890	2.3447	27.0049	43.4996	8.2786	.1497	2.2767
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.8100	.8754	2.1699	2.4104	25.8098	42.4656	7.7950	.1589	2.2317
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.8600	.8506	2.2528	2.4771	24.5740	41.4492	7.3114	.1684	2.1866
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.9100	.8223	2.3377	2.5451	23.2921	40.4551	6.8279	.1784	2.1413
4.5	2.7136	1.5411	1.08	.4090	2.4448	1.9600	.7902	2.4247	2.6144	21.9574	39.4904	6.3443	.1885	2.0958
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.0100	.7540	2.5142	2.6852	20.5616	38.5664	5.8607	.1988	2.0501
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.0600	.7131	2.6062	2.7579	19.0941	37.7009	5.3772	.2090	2.0041
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.1100	.6669	2.7009	2.8326	17.5411	36.9225	4.8936	.2189	1.9576
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.1600	.6146	2.7987	2.9098	15.8939	36.2800	4.4100	.2283	1.9106
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.2100	.5550	2.8999	2.9899	14.0268	35.7610	3.9265	.2365	1.8629
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.2600	.4862	3.0051	3.0738	12.1422	35.3369	3.4429	.2432	1.8142
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.3100	.4057	3.1150	3.1627	9.9606	36.0893	2.9593	.2474	1.7640
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.3600	.3084	3.2310	3.2584	7.4446	39.1617	2.4758	.2482	1.7114
4.5	2.7136	1.5411	1.08	.4090	2.4448	2.4100	.1821	3.3554	3.3650	4.3200	47.2548	1.9922	.2444	1.6547
4.5	2.7136	1.5411	1.12	.4308	2.3210	.4400	.1278	.4236	.4411	16.1973	86.5567	20.8870	.0306	3.7221
4.5	2.7136	1.5411	1.12	.4308	2.3210	.4900	.3202	.4746	.5670	33.1668	81.2229	20.3856	.0322	3.6764
4.5	2.7136	1.5411	1.12	.4308	2.3210	.5400	.4287	.5264	.6721	38.4471	78.0411	19.8841	.0338	3.6306
4.5	2.7136	1.5411	1.12	.4308	2.3210	.5900	.5100	.5788	.7650	40.8393	75.5153	19.3826	.0356	3.5848
4.5	2.7136	1.5411	1.12	.4308	2.3210	.6400	.5757	.6319	.8499	41.9707	73.3436	18.8811	.0374	3.5389
4.5	2.7136	1.5411	1.12	.4308	2.3210	.6900	.6307	.6857	.9290	42.4275	71.4012	18.3797	.0394	3.4931
4.5	2.7136	1.5411	1.12	.4308	2.3210	.7400	.6776	.7402	1.0037	42.4790	69.6220	17.8782	.0415	3.4473
4.5	2.7136	1.5411	1.12	.4308	2.3210	.7900	.7180	.7956	1.0751	42.2672	67.9659	17.3767	.0437	3.4014
4.5	2.7136	1.5411	1.12	.4308	2.3210	.8400	.7530	.8517	1.1438	41.8743	66.4067	16.8752	.0461	3.3556
4.5	2.7136	1.5411	1.12	.4308	2.3210	.8900	.7833	.9086	1.2104	41.3511	64.9259	16.3738	.0485	3.3097
4.5	2.7136	1.5411	1.12	.4308	2.3210	.9400	.8094	.9664	1.2753	40.7304	63.5101	15.8723	.0512	3.2638
4.5	2.7136	1.5411	1.12	.4308	2.3210	.9900	.8317	1.0250	1.3388	40.0343	62.1492	15.3708	.0539	3.2178
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.0400	.8506	1.0846	1.4011	39.2781	60.8354	14.8693	.0569	3.1719
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.0900	.8662	1.1450	1.4625	38.4722	59.5623	14.3679	.0600	3.1259
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.1400	.8787	1.2065	1.5233	37.6242	58.3252	13.8664	.0633	3.0799
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.1900	.8883	1.2689	1.5834	36.7395	57.1199	13.3649	.0668	3.0339
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.2400	.8950	1.3324	1.6432	35.8217	55.9434	12.8635	.0704	2.9878
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.2900	.8990	1.3969	1.7027	34.8732	54.7931	12.3620	.0743	2.9417
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.3400	.9003	1.4626	1.7620	33.8954	53.6670	11.8605	.0784	2.8956
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.3900	.8989	1.5294	1.8213	32.8891	52.5637	11.3590	.0827	2.8494
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.4400	.8947	1.5975	1.8807	31.8541	51.4825	10.8576	.0872	2.8031
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.4900	.8879	1.6667	1.9402	30.7899	50.4229	10.3561	.0919	2.7568
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.5400	.8782	1.7374	2.0000	29.6952	49.3853	9.8546	.0968	2.7104
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.5900	.8657	1.8093	2.0602	28.5681	48.3708	9.3531	.1020	2.6639
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.6400	.8503	1.8828	2.1208	27.4061	47.3815	8.8517	.1073	2.6173
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.6900	.8318	1.9577	2.1820	26.2061	46.4207	8.3502	.1127	2.5706
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.7400	.8100	2.0343	2.2439	24.9639	45.4933	7.8487	.1183	2.5238
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.7900	.7848	2.1125	2.3066	23.6746	44.6070	7.3472	.1240	2.4768
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.8400	.7558	2.1925	2.3702	22.3316	43.7725	6.8458	.1297	2.4296
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.8900	.7227	2.2744	2.4350	20.9268	43.0064	6.3443	.1353	2.3821
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.9400	.6851	2.3583	2.5010	19.4500	42.3356	5.8428	.1407	2.3344
4.5	2.7136	1.5411	1.12	.4308	2.3210	1.9900	.6423	2.4445	2.5686	17.8873	41.7932	5.3413	.1457	2.2862
4.5	2.7136	1.5411	1.12	.4308	2.3210	2.0400	.5935	2.5330	2.6380	16.2204	41.4493	4.8399	.1503	2.2375
4.5	2.7136	1.5411	1.12	.4308	2.3210	2.0900	.5375	2.6242	2.7096	14.4232	41.4133	4.3384	.1540	2.1881
4.5	2.7136	1.5411	1.12	.4308	2.3210	2.1400	.4728	2.7185	2.7840	12.4574	41.6955	3.8369	.1567	2.1377
4.5	2.7136	1.5411	1.12	.4308	2.3210	2.1900	.3964	2.8163	2.8621	10.2599	43.2428	3.3355	.1578	2.0859
4.5	2.7136	1.5411	1.12	.4308	2.3210	2.2400	.3032	2.9186	2.9452	7.7090	46.9076	2.8340	.1569	2.0320
4.5	2.7136	1.5411	1.12	.4308	2.3210	2.2900	.1782	3.0268	3.0354	4.4486	56.5783	2.3325	.1533	1.9746
4.5	2.7136	1.5411	1.16	.4539	2.2031	.4600	.1003	.4431	.4535	12.2983	87.2124	20.5217	.0303	3.9814
4.5	2.7136	1.5411	1.16	.4539	2.2031	.5100	.2997	.4942	.5732	30.4394	81.5178	20.0023	.0317	3.9410
4.5	2.7136	1.5411	1.16	.4539	2.2031	.5600	.4057	.5459	.6742	35.9229	78.5024	19.4829	.0332	3.8935
4.5	2.7136	1.5411	1.16	.4539	2.2031	.6100	.4842	.5983	.7639	38.4404	76.7719	18.9635	.0348	3.8460
4.5	2.7136	1.5411	1.16	.4539	2.2031	.6600	.5471	.6514	.8461	39.6558	75.6058	18.4441	.0364	3.7985
4.5	2.7136	1.5411	1.16	.4539	2.2031	.7100	.5993	.7052	.9229	40.1693	74.8742	17.9248	.0382	3.7510
4.5	2.7136	1.5411	1.16	.4539	2.2031	.7600	.6436	.7597	.9955	40.2578	74.5094	17.4054	.0400	3.7034
4.5	2.7136	1.5411	1.16	.4539	2.2031	.8100	.6815	.8149	1.0649	40.0682	74.4706	16.8860	.0420	3.6559
4.5	2.7136	1.5411	1.16	.4539	2.2031	.8600	.7136	.8709	1.1317	39.6859	74.6313	16.3666	.0440	3.6083
4.5	2.7136	1.5411	1.16	.4539	2.2031	.9100	.7412	.9277	1.1965	39.1636	74.9730	15.8472	.0462	3.5607
4.5	2.7136	1.5411	1.16	.4539	2.2031	.9600	.7646	.9853	1.2596	38.5357	75.4824	15.3278	.0484	3.5131
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.0100	.7841	1.0437	1.3213	37.8252	76.1495	14.8085	.0508	3.4654
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.0600	.8002	1.1030	1.3819	37.0480	76.9668	14.2891	.0532	3.4177
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.1100	.8128	1.1631	1.4417	36.2151	77.9286	13.7697	.0558	3.3700
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.1600	.8224	1.2242	1.5007	35.3343	78.9305	13.2503	.0585	3.3223
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.2100	.8288	1.2863	1.5591	34.4109	79.9687	12.7309	.0613	3.2745
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.2600	.8323	1.3493	1.6172	33.4485	81.0403	12.2115	.0642	3.2266
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.3100	.8329	1.4134	1.6749	32.4493	82.1434	11.6922	.0673	3.1787
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.3600	.8306	1.4786	1.7325	31.4145	83.2761	11.1728	.0704	3.1307
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.4100	.8254	1.5448	1.7901	30.3441	84.4366	10.6534	.0737	3.0827
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.4600	.8172	1.6122	1.8476	29.2375	85.6235	10.1340	.0770	3.0345
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.5100	.8060	1.6809	1.9054	28.0932	86.8349	9.6146	.0805	2.9863
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.5600	.7917	1.7508	1.9634	26.9088	88.0688	9.0952	.0840	2.9380
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.6100	.7742	1.8220	2.0217	25.6810	89.3255	8.5759	.0875	2.8897
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.6600	.7532	1.8946	2.0805	24.4055	90.6017	8.0565	.0910	2.8414
4.5	2.7136	1.5411	1.16	.4539	2.2031	1.7100	.7286	1.9686	2.1398	23.0782	91.8945	7.5371	.0948	2.7930

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.5	2.7136	1.5411	1.24	.5049	1.9807	1.4600	.6620	1.5961	1.7460	24.3405	55.2763	9.0881	.0585	3.5646
.5	2.7136	1.5411	1.24	.5049	1.9807	1.5100	.6429	1.6568	1.8007	23.0612	55.2559	8.5329	.0601	3.5124
.5	2.7136	1.5411	1.24	.5049	1.9807	1.5600	.6196	1.7246	1.8556	21.6614	54.7561	7.9777	.0615	3.4599
.5	2.7136	1.5411	1.24	.5049	1.9807	1.6100	.5918	1.7936	1.9109	20.1815	54.4101	7.4225	.0627	3.4071
.5	2.7136	1.5411	1.24	.5049	1.9807	1.6600	.5589	1.8639	1.9667	18.6079	54.2680	6.8673	.0638	3.3540
.5	2.7136	1.5411	1.24	.5049	1.9807	1.7100	.5202	1.9355	2.0231	16.9217	54.4081	6.3121	.0645	3.3004
.5	2.7136	1.5411	1.24	.5049	1.9807	1.7600	.4747	2.0087	2.0805	15.0944	54.9582	5.7569	.0650	3.2462
.5	2.7136	1.5411	1.24	.5049	1.9807	1.8100	.4206	2.0835	2.1390	13.0808	56.1434	5.2017	.0651	3.1912
.5	2.7136	1.5411	1.24	.5049	1.9807	1.8600	.3548	2.1601	2.1990	10.8006	58.4051	4.6464	.0647	3.1351
.5	2.7136	1.5411	1.24	.5049	1.9807	1.9100	.2710	2.2388	2.2612	8.0753	62.7820	4.0912	.0636	3.0776
.5	2.7136	1.5411	1.24	.5049	1.9807	1.9600	.1452	2.3200	2.3264	4.2354	73.0713	3.5360	.0618	3.0179
.5	2.7136	1.5411	1.28	.5335	1.8744	.5400	.0904	.5220	.5294	9.5054	87.4148	19.1104	.0294	4.8211
.5	2.7136	1.5411	1.28	.5335	1.8744	.5900	.2614	.5735	.6273	23.8932	81.7765	18.5573	.0305	4.7685
.5	2.7136	1.5411	1.28	.5335	1.8744	.6400	.3514	.6256	.7137	28.7728	78.6981	17.9642	.0316	4.7160
.5	2.7136	1.5411	1.28	.5335	1.8744	.6900	.4169	.6782	.7924	31.1391	76.6877	17.3910	.0327	4.6633
.5	2.7136	1.5411	1.28	.5335	1.8744	.7400	.4681	.7315	.8656	32.3172	74.6381	16.8179	.0339	4.6107
.5	2.7136	1.5411	1.28	.5335	1.8744	.7900	.5095	.7854	.9346	32.8184	72.4249	16.2448	.0350	4.5580
.5	2.7136	1.5411	1.28	.5335	1.8744	.8400	.5432	.8400	1.0004	32.8908	70.0837	15.6717	.0362	4.5053
.5	2.7136	1.5411	1.28	.5335	1.8744	.8900	.5707	.8953	1.0636	32.6707	69.4764	15.0986	.0375	4.4525
.5	2.7136	1.5411	1.28	.5335	1.8744	.9400	.5929	.9512	1.1246	32.2396	67.8792	14.5255	.0387	4.3997
.5	2.7136	1.5411	1.28	.5335	1.8744	.9900	.6102	1.0079	1.1840	31.6488	66.2761	13.9524	.0400	4.3468
.5	2.7136	1.5411	1.28	.5335	1.8744	1.0400	.6232	1.0655	1.2420	30.9518	65.5569	13.3793	.0413	4.2938
.5	2.7136	1.5411	1.28	.5335	1.8744	1.0900	.6321	1.1235	1.2988	30.1111	64.4151	12.8061	.0426	4.2408
.5	2.7136	1.5411	1.28	.5335	1.8744	1.1400	.6372	1.1825	1.3546	29.2016	63.1475	12.2330	.0439	4.1877
.5	2.7136	1.5411	1.28	.5335	1.8744	1.1900	.6384	1.2423	1.4097	28.2134	62.1535	11.6599	.0452	4.1345
.5	2.7136	1.5411	1.28	.5335	1.8744	1.2400	.6360	1.3029	1.4643	27.1523	61.4352	11.0868	.0464	4.0811
.5	2.7136	1.5411	1.28	.5335	1.8744	1.2900	.6298	1.3644	1.5183	26.0215	60.3979	10.5137	.0476	4.0277
.5	2.7136	1.5411	1.28	.5335	1.8744	1.3400	.6198	1.4268	1.5720	24.8214	59.2503	9.9406	.0488	3.9741
.5	2.7136	1.5411	1.28	.5335	1.8744	1.3900	.6058	1.4902	1.6256	23.5500	59.0059	9.3675	.0499	3.9203
.5	2.7136	1.5411	1.28	.5335	1.8744	1.4400	.5877	1.5545	1.6790	22.2028	58.4843	8.7944	.0509	3.8662
.5	2.7136	1.5411	1.28	.5335	1.8744	1.4900	.5652	1.6199	1.7325	20.7723	58.1147	8.2212	.0518	3.8120
.5	2.7136	1.5411	1.28	.5335	1.8744	1.5400	.5377	1.6864	1.7862	19.2471	57.9401	7.6481	.0526	3.7575
.5	2.7136	1.5411	1.28	.5335	1.8744	1.5900	.5047	1.7540	1.8403	17.6106	58.0260	7.0750	.0531	3.7025
.5	2.7136	1.5411	1.28	.5335	1.8744	1.6400	.4652	1.8229	1.8948	15.8376	58.4769	6.5019	.0535	3.6469
.5	2.7136	1.5411	1.28	.5335	1.8744	1.6900	.4179	1.8931	1.9501	13.8882	59.4688	5.9288	.0535	3.5906
.5	2.7136	1.5411	1.28	.5335	1.8744	1.7400	.3601	1.9648	2.0064	11.6926	61.2282	5.3557	.0532	3.5336
.5	2.7136	1.5411	1.28	.5335	1.8744	1.7900	.2869	2.0381	2.0641	9.1057	64.1575	4.7826	.0525	3.4754
.5	2.7136	1.5411	1.28	.5335	1.8744	1.8400	.1831	2.1133	2.1237	5.6841	71.6451	4.2095	.0513	3.4156
.5	2.7136	1.5411	1.32	.5650	1.7699	.5700	.0752	.5518	.5566	7.5202	87.5954	18.5623	.0291	5.1124
.5	2.7136	1.5411	1.32	.5650	1.7699	.6200	.2438	.6034	.6484	21.4663	82.0324	17.9713	.0300	5.0581
.5	2.7136	1.5411	1.32	.5650	1.7699	.6700	.3291	.6556	.7305	26.1588	78.5931	17.3803	.0310	5.0038
.5	2.7136	1.5411	1.32	.5650	1.7699	.7200	.3902	.7084	.8058	28.4537	76.4323	16.7893	.0320	4.9494
.5	2.7136	1.5411	1.32	.5650	1.7699	.7700	.4373	.7618	.8761	29.5958	74.4379	16.1983	.0329	4.8950
.5	2.7136	1.5411	1.32	.5650	1.7699	.8200	.4748	.8158	.9427	30.0707	72.4854	15.6072	.0339	4.8406
.5	2.7136	1.5411	1.32	.5650	1.7699	.8700	.5047	.8705	1.0064	30.1163	71.3112	15.0162	.0350	4.7861
.5	2.7136	1.5411	1.32	.5650	1.7699	.9200	.5283	.9258	1.0676	29.8646	69.8786	14.4252	.0360	4.7315
.5	2.7136	1.5411	1.32	.5650	1.7699	.9700	.5464	.9818	1.1269	29.3947	68.5653	13.8342	.0370	4.6768
.5	2.7136	1.5411	1.32	.5650	1.7699	1.0200	.5597	1.0385	1.1846	28.7568	67.3573	13.2431	.0380	4.6221
.5	2.7136	1.5411	1.32	.5650	1.7699	1.0700	.5685	1.0960	1.2411	27.9831	66.2470	12.6521	.0390	4.5673
.5	2.7136	1.5411	1.32	.5650	1.7699	1.1200	.5730	1.1541	1.2964	27.0952	65.2311	12.0611	.0400	4.5124
.5	2.7136	1.5411	1.32	.5650	1.7699	1.1700	.5735	1.2131	1.3509	26.1066	64.2106	11.4701	.0409	4.4575
.5	2.7136	1.5411	1.32	.5650	1.7699	1.2200	.5696	1.2728	1.4047	25.0257	63.4905	10.8791	.0418	4.4025
.5	2.7136	1.5411	1.32	.5650	1.7699	1.2700	.5616	1.3334	1.4580	23.8562	62.7805	10.2880	.0427	4.3474
.5	2.7136	1.5411	1.32	.5650	1.7699	1.3200	.5494	1.3948	1.5108	22.5981	62.1963	9.6970	.0435	4.2922
.5	2.7136	1.5411	1.32	.5650	1.7699	1.3700	.5327	1.4572	1.5635	21.2478	61.7616	9.1060	.0441	4.2369
.5	2.7136	1.5411	1.32	.5650	1.7699	1.4200	.5112	1.5205	1.6160	19.7973	61.5116	8.5150	.0447	4.1814
.5	2.7136	1.5411	1.32	.5650	1.7699	1.4700	.4843	1.5847	1.6685	18.2334	61.4998	7.9239	.0451	4.1258
.5	2.7136	1.5411	1.32	.5650	1.7699	1.5200	.4512	1.6500	1.7212	16.5348	61.6088	7.3329	.0454	4.0701
.5	2.7136	1.5411	1.32	.5650	1.7699	1.5700	.4109	1.7165	1.7743	14.6676	62.5739	6.7419	.0455	4.0143
.5	2.7136	1.5411	1.32	.5650	1.7699	1.6200	.3615	1.7841	1.8279	12.5731	64.0330	6.1509	.0453	3.9583
.5	2.7136	1.5411	1.32	.5650	1.7699	1.6700	.2985	1.8530	1.8824	10.1353	66.2610	5.5598	.0448	3.8917
.5	2.7136	1.5411	1.32	.5650	1.7699	1.7200	.2127	1.9235	1.9381	7.0504	71.6645	4.9688	.0439	3.8315
.5	2.7136	1.5411	1.36	.6002	1.6660	.6100	.0985	.5970	.5996	9.1683	86.7181	17.8710	.0288	5.4008
.5	2.7136	1.5411	1.36	.6002	1.6660	.6600	.2374	.6438	.6542	12.7825	81.2949	17.2621	.0296	5.3447
.5	2.7136	1.5411	1.36	.6002	1.6660	.7100	.3132	.6905	.7610	25.4051	79.0366	16.6532	.0305	5.2887
.5	2.7136	1.5411	1.36	.6002	1.6660	.7600	.3674	.7373	.8423	26.7992	76.8044	16.0442	.0313	5.2325
.5	2.7136	1.5411	1.36	.6002	1.6660	.8100	.4086	.7843	.9193	26.7655	74.5243	15.4353	.0321	5.1763
.5	2.7136	1.5411	1.36	.6002	1.6660	.8600	.4405	.8317	.9931	27.1239	72.4440	14.8264	.0329	5.1201
.5	2.7136	1.5411	1.36	.6002	1.6660	.9100	.4651	.8798	1.0644	27.0728	71.2265	14.2174	.0335	5.0638
.5	2.7136	1.5411	1.36	.6002	1.6660	.9600	.4835	.9285	1.0335	26.7325	70.5128	13.6085	.0340	5.0074
.5	2.7136	1.5411	1.36	.6002	1.6660	1.0100	.4964	1.0237	1.1007	26.1748	69.2456	12.9996	.0345	4.9509
.5	2.7136	1.5411	1.36	.6002	1.6660	1.0600	.5043	1.0806	1.1667	25.4415	68.2958	12.3906	.0351	4.8943
.5	2.7136	1.5411	1.36	.6002	1.6660	1.1100	.5074	1.1382	1.2315	24.5639	67.2676	11.7817	.0356	4.8376
.5	2.7136	1.5411	1.36	.6002	1.6660	1.1600	.5058	1.1965	1.2953	23.5587	66.2655	11.1728	.0361	4.7808
.5	2.7136	1.5411	1.36	.6002	1.6660	1.2100	.4996	1.2556	1.3585	22.4356	65.4003	10.5638	.0365	4.7239

.5	2.7136	1.5411	1.36	.6002	1.6660	1.0100	.4964	1.0237	1.1407	26.1738	69.3459	12.9996	.0353	5.9508
.5	2.7136	1.5411	1.36	.6002	1.6660	1.0600	.5043	1.0806	1.1967	25.4415	68.2958	12.3906	.0361	5.8942
.5	2.7136	1.5411	1.36	.6002	1.6660	1.1100	.5074	1.1382	1.2515	24.5639	67.2676	11.7817	.0368	5.8374
.5	2.7136	1.5411	1.36	.6002	1.6660	1.1600	.5058	1.1965	1.3053	23.5587	66.2655	11.1728	.0375	5.7805
.5	2.7136	1.5411	1.36	.6002	1.6660	1.2100	.4996	1.2556	1.3585	22.4356	65.2903	10.5638	.0381	5.7234
.5	2.7136	1.5411	1.36	.6002	1.6660	1.2600	.4887	1.3155	1.4110	21.1980	65.3408	9.9549	.0386	5.6661
.5	2.7136	1.5411	1.36	.6002	1.6660	1.3100	.4727	1.3763	1.4631	19.8433	65.4166	9.3460	.0391	5.6085
.5	2.7136	1.5411	1.36	.6002	1.6660	1.3600	.4514	1.4378	1.5150	18.3625	64.4731	8.7370	.0394	5.5506
.5	2.7136	1.5411	1.36	.6002	1.6660	1.4100	.4240	1.5003	1.5667	16.7380	65.1807	8.1281	.0396	5.4924
.5	2.7136	1.5411	1.36	.6002	1.6660	1.4600	.3895	1.5638	1.6185	14.9394	65.4027	7.5192	.0396	5.4336
.5	2.7136	1.5411	1.36	.6002	1.6660	1.5100	.3462	1.6283	1.6705	12.9122	67.0344	6.9102	.0395	5.3743
.5	2.7136	1.5411	1.36	.6002	1.6660	1.5600	.2905	1.6939	1.7230	10.5493	69.4522	6.3013	.0391	5.3145
.5	2.7136	1.5411	1.36	.6002	1.6660	1.6100	.2143	1.7606	1.7762	7.5805	74.2599	5.6924	.0385	5.2542
.5	2.7136	1.5411	1.36	.6002	1.6660	1.6600	.0710	1.8288	1.8305	2.4504	88.5198	5.0834	.0376	5.1909
.5	2.7136	1.5411	1.40	.6407	1.5608	.6500	.0891	.6322	.6382	7.8086	86.6953	17.1511	.0284	5.6970
.5	2.7136	1.5411	1.40	.6407	1.5608	.7000	.2184	.6844	.7169	17.4291	82.1949	16.5242	.0291	5.6372
.5	2.7136	1.5411	1.40	.6407	1.5608	.7500	.2874	.7370	.7893	20.9654	79.4525	15.8974	.0298	5.5813
.5	2.7136	1.5411	1.40	.6407	1.5608	.8000	.3356	.7903	.8570	22.7557	77.3363	15.2705	.0305	5.5253
.5	2.7136	1.5411	1.40	.6407	1.5608	.8500	.3712	.8441	.9211	23.5895	75.[illegible]	14.6437	.0312	5.4693
.5	2.7136	1.5411	1.40	.6407	1.5608	.9000	.3976	.8986	.9824	23.8364	74.[illegible]	14.0168	.0318	5.4072
.5	2.7136	1.5411	1.40	.6407	1.5608	.9500	.4167	.9536	1.0413	23.6943	72.7668	13.3900	.0324	5.3490
.5	2.7136	1.5411	1.40	.6407	1.5608	1.0000	.4294	1.0093	1.0985	23.2401	71.6332	12.7632	.0330	5.2906
.5	2.7136	1.5411	1.40	.6407	1.5608	1.0500	.4364	1.0657	1.1541	22.5680	70.6611	12.1363	.0335	5.2321
.5	2.7136	1.5411	1.40	.6407	1.5608	1.1000	.4379	1.1228	1.2085	21.7071	69.6503	11.5095	.0340	5.1735
.5	2.7136	1.5411	1.40	.6407	1.5608	1.1500	.4341	1.1806	1.2619	20.6602	69.[illegible]109	10.8826	.0345	5.1146
.5	2.7136	1.5411	1.40	.6407	1.5608	1.2000	.4249	1.2391	1.3144	19.4980	68.[illegible]641	10.2558	.0348	5.0555
.5	2.7136	1.5411	1.40	.6407	1.5608	1.2500	.4100	1.2983	1.3664	18.1612	68.[illegible]462	9.6289	.0351	4.9962
.5	2.7136	1.5411	1.40	.6407	1.5608	1.3000	.3890	1.3584	1.4179	16.6595	68.[illegible]149	9.0021	.0353	4.9365
.5	2.7136	1.5411	1.40	.6407	1.5608	1.3500	.3609	1.4193	1.4692	14.9683	69.[illegible]641	8.3753	.0353	4.8765
.5	2.7136	1.5411	1.40	.6407	1.5608	1.4000	.3242	1.4811	1.5203	13.0393	70.[illegible]538	7.7484	.0352	4.8159
.5	2.7136	1.5411	1.40	.6407	1.5608	1.4500	.2759	1.5438	1.5715	10.7735	71.[illegible]854	7.1216	.0349	4.7547
.5	2.7136	1.5411	1.40	.6407	1.5608	1.5000	.2088	1.6076	1.6231	7.9257	75.[illegible]541	6.4947	.0345	4.6927
.5	2.7136	1.5411	1.40	.6407	1.5608	1.5500	.0897	1.6724	1.6752	3.3110	83.1223	5.8679	.0338	4.6297
.5	2.7136	1.5411	1.44	.6890	1.4513	.6900	.0264	.6726	.6731	2.1725	89.6369	16.4024	.0279	6.0008
.5	2.7136	1.5411	1.44	.6890	1.4513	.7400	.1838	.7250	.7470	13.9461	83.1126	15.7577	.0285	5.9411
.5	2.7136	1.5411	1.44	.6890	1.4513	.7900	.2490	.7779	.8156	17.4930	80.5954	15.1129	.0290	5.8814
.5	2.7136	1.5411	1.44	.6890	1.4513	.8400	.2922	.8314	.8802	19.1810	78.[illegible]827	14.4682	.0295	5.8216
.5	2.7136	1.5411	1.44	.6890	1.4513	.8900	.3224	.8854	.9417	19.9156	76.[illegible]681	13.8234	.0300	5.7617
.5	2.7136	1.5411	1.44	.6890	1.4513	.9400	.3432	.9401	1.0008	20.0575	75.4399	13.1787	.0305	5.7016
.5	2.7136	1.5411	1.44	.6890	1.4513	.9900	.3562	.9953	1.0578	19.7870	74.3496	12.5339	.0309	5.6414
.5	2.7136	1.5411	1.44	.6890	1.4513	1.0400	.3623	1.0512	1.1132	19.2042	73.4795	11.8892	.0313	5.5810
.5	2.7136	1.5411	1.44	.6890	1.4513	1.0900	.3619	1.1078	1.1673	18.3655	72.6323	11.2444	.0316	5.5205
.5	2.7136	1.5411	1.44	.6890	1.4513	1.1400	.3551	1.1651	1.2203	17.3004	72.[illegible]293	10.5997	.0318	5.4597
.5	2.7136	1.5411	1.44	.6890	1.4513	1.1900	.3416	1.2230	1.2724	16.0174	72.[illegible]136	9.9549	.0320	5.3986
.5	2.7136	1.5411	1.44	.6890	1.4513	1.2400	.3208	1.2817	1.3239	14.5063	72.5611	9.3102	.0320	5.3371
.5	2.7136	1.5411	1.44	.6890	1.4513	1.2900	.2915	1.3412	1.3750	12.7267	74.[illegible]348	8.6654	.0320	5.2753
.5	2.7136	1.5411	1.44	.6890	1.4513	1.3400	.2505	1.4015	1.4255	10.5872	74.6917	8.0207	.0318	5.2129
.5	2.7136	1.5411	1.44	.6890	1.4513	1.3900	.1916	1.4627	1.4765	7.8489	77.5976	7.3759	.0314	5.1499
.5	2.7136	1.5411	1.44	.6890	1.4513	1.4400	.0846	1.5247	1.5274	3.3616	84.1203	6.7311	.0309	5.0861
.5	2.7136	1.5411	1.48	.7511	1.3314	.7600	.0689	.7446	.7477	5.1786	87.[illegible]183	15.2275	.0275	6.2752
.5	2.7136	1.5411	1.48	.7511	1.3314	.8100	.1687	.7975	.8146	11.7622	83.[illegible]292	14.5649	.0279	6.2136
.5	2.7136	1.5411	1.48	.7511	1.3314	.8600	.2176	.8510	.8778	14.2000	80.[illegible]782	13.9022	.0283	6.1519
.5	2.7136	1.5411	1.48	.7511	1.3314	.9100	.2480	.9050	.9380	15.2444	79.[illegible]640	13.2396	.0287	6.0901
.5	2.7136	1.5411	1.48	.7511	1.3314	.9600	.2663	.9596	.9959	15.5050	78.[illegible]618	12.5769	.0289	6.0281
.5	2.7136	1.5411	1.48	.7511	1.3314	1.0100	.2751	1.0149	1.0518	15.2357	77.[illegible]992	11.9142	.0292	5.9659
.5	2.7136	1.5411	1.48	.7511	1.3314	1.0600	.2753	1.0707	1.1063	14.5595	76.[illegible]649	11.2516	.0294	5.9035
.5	2.7136	1.5411	1.48	.7511	1.3314	1.1100	.2671	1.1272	1.1594	13.5322	76.5908	10.5889	.0295	5.8409
.5	2.7136	1.5411	1.48	.7511	1.3314	1.1600	.2500	1.1844	1.2116	12.1600	76.[illegible]581	9.9263	.0295	5.7778
.5	2.7136	1.5411	1.48	.7511	1.3314	1.2100	.2219	1.2423	1.2630	10.3917	77.[illegible]334	9.2636	.0294	5.7144
.5	2.7136	1.5411	1.48	.7511	1.3314	1.2600	.1785	1.3009	1.3139	8.0554	79.[illegible]891	8.6009	.0292	5.6505
.5	2.7136	1.5411	1.48	.7511	1.3314	1.3100	.1018	1.3603	1.3644	4.4429	83.2006	7.9383	.0289	5.5860
.5	2.7136	1.5411	1.52	.8468	1.1809	.8500	.0311	.8385	.8490	2.0970	88.[illegible]803	15.7304	.0270	6.5293
.5	2.7136	1.5411	1.52	.8468	1.1809	.9000	.1170	.8922	.8997	7.4091	84.[illegible]594	15.0497	.0272	6.4676
.5	2.7136	1.5411	1.52	.8468	1.1809	.9500	.1474	.9464	.9578	8.8216	83.[illegible]787	12.3691	.0273	6.4057
.5	2.7136	1.5411	1.52	.8468	1.1809	1.0000	.1586	1.0013	1.0138	9.0099	82.4792	11.6884	.0274	6.3436
.5	2.7136	1.5411	1.52	.8468	1.1809	1.0500	.1549	1.0567	1.0681	8.4494	82.[illegible]577	11.0080	.0275	6.2812
.5	2.7136	1.5411	1.52	.8468	1.1809	1.1000	.1354	1.1128	1.1212	7.0175	82.5490	10.3274	.0274	6.2186
.5	2.7136	1.5411	1.52	.8468	1.1809	1.1500	.0912	1.1695	1.1732	4.5337	85.[illegible]415	9.6469	.0273	6.1554

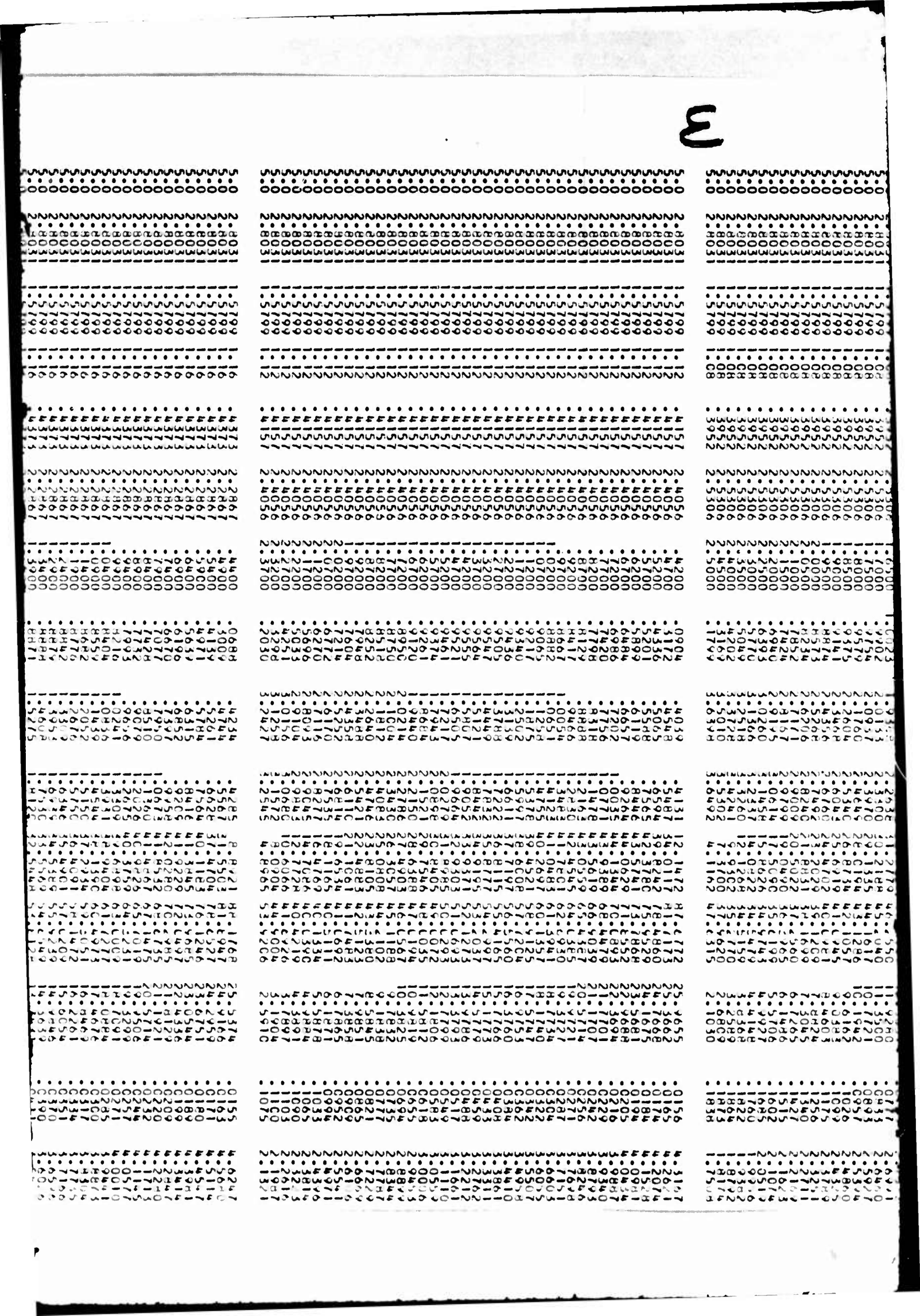
LOOP BRANCH (M1 FROM 1 TO 5)

GAMMA = 1.2

M1	M1e	DELMAX	DEL	XMIN	XMAX	X(M2U=)	Y(M2V=)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
5.0	2.8031	1.5799	1.00	.3568	2.8031	.3600	.0873	.3454	.3554	13.6255	87.9544	27.1471	.0159	3.4563
5.0	2.8031	1.5799	1.00	.3568	2.8031	.4100	.3496	.3962	.5207	40.4534	81.0886	26.6119	.0170	3.4076
5.0	2.8031	1.5799	1.00	.3568	2.8031	.4600	.4815	.4477	.6481	46.3073	78.3877	26.0768	.0182	3.3589
5.0	2.8031	1.5799	1.00	.3568	2.8031	.5100	.5800	.5000	.7572	48.6766	75.6045	25.5417	.0194	3.3102
5.0	2.8031	1.5799	1.00	.3568	2.8031	.5600	.6604	.5531	.8552	49.7014	73.5955	25.0065	.0208	3.2615
5.0	2.8031	1.5799	1.00	.3568	2.8031	.6100	.7285	.6071	.9456	50.0595	71.6242	24.4714	.0223	3.2127
5.0	2.8031	1.5799	1.00	.3568	2.8031	.6600	.7876	.6619	1.0305	50.0387	69.6202	23.9363	.0239	3.1640
5.0	2.8031	1.5799	1.00	.3568	2.8031	.7100	.8397	.7175	1.1113	49.7629	68.1411	23.4012	.0256	3.1153
5.0	2.8031	1.5799	1.00	.3568	2.8031	.7600	.8858	.7742	1.1889	49.3722	66.5593	22.8660	.0275	3.0665
5.0	2.8031	1.5799	1.00	.3568	2.8031	.8100	.9270	.8317	1.2641	48.8546	65.0554	22.3309	.0296	3.0178
5.0	2.8031	1.5799	1.00	.3568	2.8031	.8600	.9639	.8903	1.3373	48.2603	63.6153	21.7958	.0318	2.9691
5.0	2.8031	1.5799	1.00	.3568	2.8031	.9100	.9969	.9499	1.4089	47.6094	62.2283	21.2606	.0343	2.9203
5.0	2.8031	1.5799	1.00	.3568	2.8031	.9600	1.0264	1.0105	1.4794	46.9153	60.8859	20.7255	.0370	2.8715
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.0100	1.0528	1.0723	1.5489	46.1976	59.5815	20.1904	.0399	2.8228
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.0600	1.0761	1.1352	1.6177	45.4329	58.3094	19.6553	.0431	2.7740
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.1100	1.0966	1.1994	1.6861	44.6562	57.0650	19.1201	.0467	2.7252
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.1600	1.1148	1.2648	1.7541	43.8607	55.8445	18.5850	.0506	2.6765
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.2100	1.1305	1.3315	1.8220	43.0490	54.6442	18.0499	.0548	2.6277
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.2600	1.1434	1.3996	1.8899	42.2229	53.4613	17.5147	.0595	2.5789
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.3100	1.1543	1.4691	1.9580	41.3836	52.2932	16.9796	.0647	2.5301
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.3600	1.1629	1.5401	2.0263	40.5318	51.1373	16.4445	.0705	2.4812
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.4100	1.1693	1.6126	2.0950	39.6680	49.9914	15.9094	.0768	2.4324
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.4600	1.1735	1.6869	2.1642	38.7922	48.8536	15.3742	.0838	2.3836
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.5100	1.1757	1.7628	2.2341	37.9045	47.7218	14.8391	.0916	2.3347
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.5600	1.1757	1.8405	2.3047	37.0045	46.5943	14.3040	.1003	2.2858
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.6100	1.1737	1.9202	2.3762	36.0917	45.4693	13.7688	.1099	2.2369
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.6600	1.1695	2.0018	2.4487	35.1654	44.3450	13.2337	.1206	2.1880
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.7100	1.1632	2.0855	2.5223	34.2246	43.2197	12.6986	.1325	2.1391
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.7600	1.1547	2.1715	2.5972	33.2685	42.0916	12.1634	.1459	2.0901
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.8100	1.1440	2.2598	2.6734	32.2955	40.9590	11.6283	.1608	2.0412
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.8600	1.1311	2.3507	2.7512	31.3044	39.8200	11.0932	.1775	1.9921
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.9100	1.1158	2.4441	2.8306	30.2933	38.6726	10.5581	.1962	1.9431
5.0	2.8031	1.5799	1.00	.3568	2.8031	1.9600	1.0981	2.5404	2.9119	29.2601	37.5148	10.0229	.2171	1.8940
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.0100	1.0779	2.6397	2.9954	28.2026	36.3444	9.4878	.2407	1.8448
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.0600	1.0550	2.7422	3.0808	27.1178	35.1589	8.9527	.2671	1.7956
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.1100	1.0292	2.8481	3.1684	26.0025	33.9555	8.4175	.2967	1.7464
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.1600	1.0005	2.9577	3.2595	24.8527	32.7312	7.8824	.3300	1.6970
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.2100	.9684	3.0712	3.3532	23.6636	31.4826	7.3473	.3674	1.6475
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.2600	.9329	3.1891	3.4501	22.4295	30.2055	6.8121	.4092	1.5980
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.3100	.8934	3.3116	3.5506	21.1432	28.8952	6.2770	.4558	1.5482
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.3600	.8494	3.4392	3.6552	19.7956	27.5460	5.7419	.5076	1.4983
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.4100	.8005	3.5724	3.7643	18.3751	26.1508	5.2068	.5647	1.4481
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.4600	.7458	3.7119	3.8788	16.8664	24.7010	4.6716	.6271	1.3975
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.5100	.6842	3.8585	3.9994	15.2487	23.1853	4.1365	.6942	1.3465
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.5600	.6142	4.0132	4.1271	13.4925	21.5889	3.6014	.7646	1.2947
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.6100	.5336	4.1776	4.2640	11.5540	19.8914	3.0662	.8357	1.2412
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.6600	.4386	4.3542	4.4130	9.3641	18.0632	2.5311	.9029	1.1845
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.7100	.3233	4.5475	4.5797	6.8029	16.0586	1.9960	.9588	1.1200
5.0	2.8031	1.5799	1.00	.3568	2.8031	2.7600	.1753	4.7674	4.7770	3.6344	13.8000	1.4608	.9951	1.0624
5.0	2.8031	1.5799	1.04	.3756	2.6627	.3800	.0987	.3649	.3770	14.5552	87.8148	26.1703	.0158	3.7315
5.0	2.8031	1.5799	1.04	.3756	2.6627	.4300	.3413	.4157	.5308	38.4438	81.8251	26.2138	.0168	3.6817
5.0	2.8031	1.5799	1.04	.3756	2.6627	.4800	.4672	.4673	.6521	44.2284	78.3622	25.6573	.0179	3.6312
5.0	2.8031	1.5799	1.04	.3756	2.6627	.5300	.5614	.5196	.7569	46.6459	75.8010	25.1007	.0191	3.5805
5.0	2.8031	1.5799	1.04	.3756	2.6627	.5800	.6379	.5727	.8513	47.7229	73.6082	24.5442	.0203	3.5294
5.0	2.8031	1.5799	1.04	.3756	2.6627	.6300	.7027	.6266	.9386	48.1224	71.6506	23.9877	.0217	3.4781
5.0	2.8031	1.5799	1.04	.3756	2.6627	.6800	.7587	.6815	1.0208	48.1314	69.8586	23.4311	.0231	3.4264
5.0	2.8031	1.5799	1.04	.3756	2.6627	.7300	.8078	.7369	1.0990	47.8954	68.1906	22.8746	.0247	3.3745
5.0	2.8031	1.5799	1.04	.3756	2.6627	.7800	.8511	.7933	1.1742	47.4963	66.6194	22.3181	.0264	3.3224
5.0	2.8031	1.5799	1.04	.3756	2.6627	.8300	.8895	.8507	1.2469	46.9834	65.1258	21.7615	.0282	3.2702
5.0	2.8031	1.5799	1.04	.3756	2.6627	.8800	.9237	.9090	1.3178	46.3879	63.7959	21.2050	.0301	3.2179
5.0	2.8031	1.5799	1.04	.3756	2.6627	.9300	.9540	.9683	1.3872	45.7307	62.5191	20.6485	.0323	3.1654
5.0	2.8031	1.5799	1.04	.3756	2.6627	.9800	.9809	1.0286	1.4553	45.0259	60.8871	20.0919	.0346	3.1128
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.0300	1.0046	1.0900	1.5225	44.2836	59.6932	19.5354	.0371	3.0602
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.0800	1.0253	1.1524	1.5890	43.5106	58.4320	18.9788	.0399	3.0074
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.1300	1.0432	1.2160	1.6550	42.7121	57.1989	18.4223	.0430	2.9545

5.0	2.8031	1.5799	1.04	.3756	2.6627	.4300	.3413	.4157	.5308	38.4438	81.6251	26.2139	.0168	3.6811
5.0	2.8031	1.5799	1.04	.3756	2.6627	.4800	.4672	.4673	.6521	44.2284	78.5622	25.6573	.0179	3.6312
5.0	2.8031	1.5799	1.04	.3756	2.6627	.5300	.5614	.5199	.7569	46.6459	75.8010	25.1007	.0191	3.5805
5.0	2.8031	1.5799	1.04	.3756	2.6627	.5800	.6379	.5727	.8512	47.7229	73.4082	24.5442	.0203	3.5294
5.0	2.8031	1.5799	1.04	.3756	2.6627	.6300	.7027	.6266	.9326	48.1224	71.4506	23.9877	.0217	3.4771
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5.0	2.8031	1.5799	1.04	.3756	2.6627	.7800	.8511	.7933	1.1742	47.4963	66.6194	22.3181	.0264	3.3290
5.0	2.8031	1.5799	1.04	.3756	2.6627	.8300	.8895	.8507	1.2469	46.9834	65.1258	21.7615	.0282	3.2762
5.0	2.8031	1.5799	1.04	.3756	2.6627	.8800	.9237	.9070	1.3178	46.3879	63.6959	21.2050	.0301	3.2215
5.0	2.8031	1.5799	1.04	.3756	2.6627	.9300	.9540	.9683	1.3872	45.7307	62.3191	20.6485	.0323	3.1747
5.0	2.8031	1.5799	1.04	.3756	2.6627	.9800	.9809	1.0286	1.4553	45.0259	60.9871	20.0919	.0346	3.1240
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.0300	1.0046	1.0900	1.5225	44.2836	59.6932	19.5354	.0371	3.0732
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.0800	1.0253	1.1524	1.5890	43.5106	58.4320	18.9788	.0399	3.0224
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.1300	1.0432	1.2160	1.6550	42.7121	57.1989	18.4223	.0428	2.9717
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.1800	1.0584	1.2808	1.7206	41.8917	55.9901	17.8658	.0461	2.9209
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.2300	1.0712	1.3469	1.7861	41.0520	54.8023	17.3092	.0496	2.8701
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.2800	1.0815	1.4142	1.8514	40.1947	53.6325	16.7527	.0534	2.8192
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.3300	1.0894	1.4829	1.9168	39.3211	52.4782	16.1962	.0576	2.7684
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.3800	1.0950	1.5530	1.9825	38.4318	51.3371	15.6396	.0622	2.7176
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.4300	1.0984	1.6245	2.0486	37.5273	50.2072	15.0831	.0672	2.6667
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.4800	1.0994	1.6976	2.1147	36.6074	49.0865	14.5266	.0726	2.6159
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.5300	1.0983	1.7723	2.1816	35.6719	47.9735	13.9700	.0786	2.5649
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.5800	1.0949	1.8486	2.2491	34.7202	46.8664	13.4135	.0851	2.5139
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.6300	1.0892	1.9268	2.3173	33.7516	45.7637	12.8570	.0922	2.4630
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.6800	1.0812	2.0068	2.3864	32.7649	44.6641	12.3004	.1000	2.4120
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.7300	1.0709	2.0887	2.4565	31.7588	43.5663	11.7439	.1086	2.3609
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.7800	1.0582	2.1727	2.5277	30.7317	42.4690	11.1874	.1179	2.3098
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.8300	1.0430	2.2589	2.6000	29.6816	41.3712	10.6308	.1282	2.2587
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.8800	1.0253	2.3474	2.6737	28.6063	40.2716	10.0743	.1394	2.2075
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.9300	1.0048	2.4383	2.7489	27.5030	39.1696	9.5178	.1516	2.1562
5.0	2.8031	1.5799	1.04	.3756	2.6627	1.9800	.9815	2.5318	2.8258	26.3685	38.0644	8.9612	.1650	2.1049
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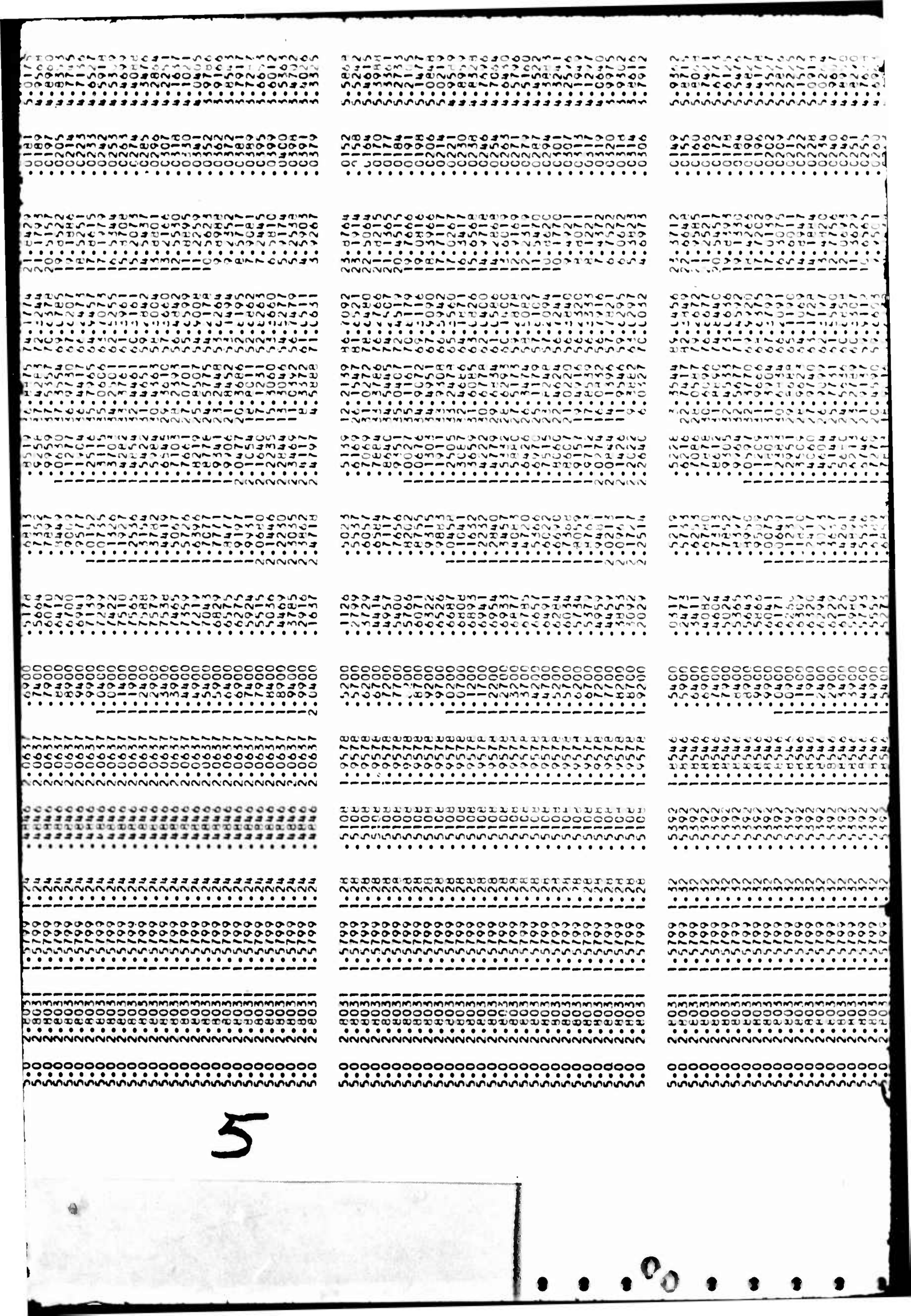
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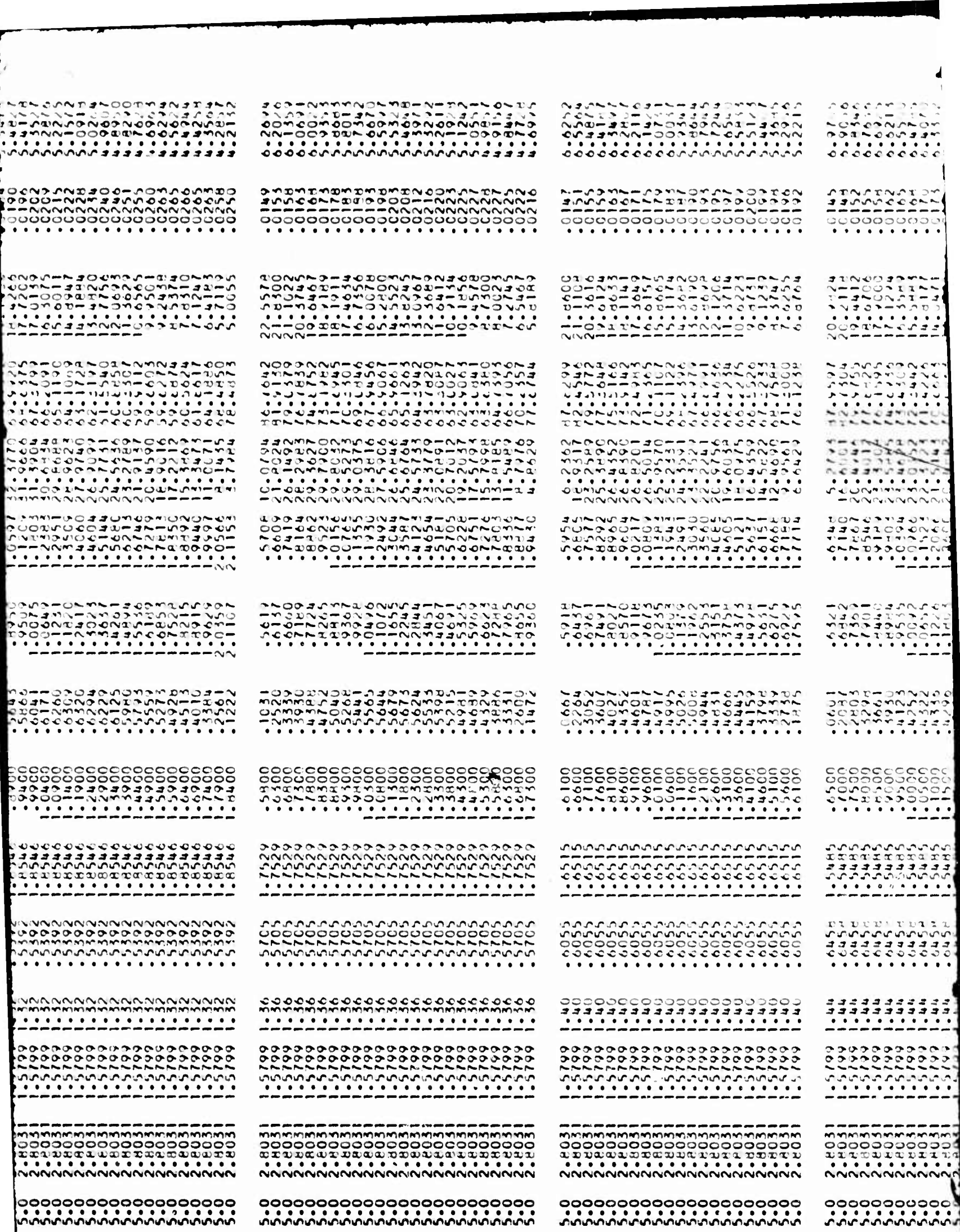
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5.0	2.8031	1.5799	1.20	.4602	2.1730	2.1700	.0580	2.7366	2.7376	1.5322	41.5096	3.1305	.0488	2.8809

5.0	2.8031	1.5799	1.24	.4846	2.0637	.4900	.0903	.4726	.4805	10.4434	87.4491	24.4971	.0153	5.2601
5.0	2.8031	1.5799	1.24	.4846	2.0637	.5400	.2837	.5238	.5918	27.7224	81.6292	23.8335	.0159	5.1975
5.0	2.8031	1.5799	1.24	.4846	2.0637	.5900	.3848	.5757	.6873	33.1127	78.7084	23.1700	.0166	5.1349
5.0	2.8031	1.5799	1.24	.4846	2.0637	.6400	.4589	.6282	.7830	35.6417	76.4631	22.5064	.0173	5.0722
5.0	2.8031	1.5799	1.24	.4846	2.0637	.6900	.5178	.6813	.8519	36.8475	74.1774	21.8429	.0181	5.0095
5.0	2.8031	1.5799	1.24	.4846	2.0637	.7400	.5664	.7352	.9256	37.4283	72.2244	21.1793	.0189	4.9468
5.0	2.8031	1.5799	1.24	.4846	2.0637	.7900	.6070	.7897	.9959	37.5357	70.6378	20.5157	.0197	4.8840
5.0	2.8031	1.5799	1.24	.4846	2.0637	.8400	.6412	.8449	1.0630	37.3554	69.2785	19.8522	.0205	4.8213
5.0	2.8031	1.5799	1.24	.4846	2.0637	.8900	.6700	.9010	1.1277	36.9730	67.6207	19.1886	.0214	4.7585
5.0	2.8031	1.5799	1.24	.4846	2.0637	.9400	.6941	.9577	1.1904	36.4417	66.2473	18.5251	.0223	4.6958
5.0	2.8031	1.5799	1.24	.4846	2.0637	.9900	.7139	1.0152	1.2516	35.7985	64.9457	17.8615	.0233	4.6329
5.0	2.8031	1.5799	1.24	.4846	2.0637	1.0400	.7299	1.0735	1.3115	35.0606	63.7073	17.1979	.0242	4.5701
5.0	2.8031	1.5799	1.24	.4846	2.0637	1.0900	.7422	1.1326	1.3702	34.2501	62.5255	16.5344	.0253	4.5072
5.0	2.8031	1.5799	1.24	.4846	2.0637	1.1400	.7510	1.1927	1.4282	33.3761	61.3961	15.8708	.0263	4.4442
5.0	2.8031	1.5799	1.24	.4846	2.0637	1.1900	.7565	1.2536	1.4854	32.4461	60.3161	15.2073	.0274	4.3813
5.0	2.8031	1.5799	1.24	.4846	2.0637	1.2400	.7588	1.3154	1.5422	31.4651	59.2842	14.5437	.0285	4.3184
5.0	2.8031	1.5799	1.24	.4846	2.0637	1.2900	.7578	1.3782	1.5985	30.4369	58.2984	13.8802	.0297	4.2554



5

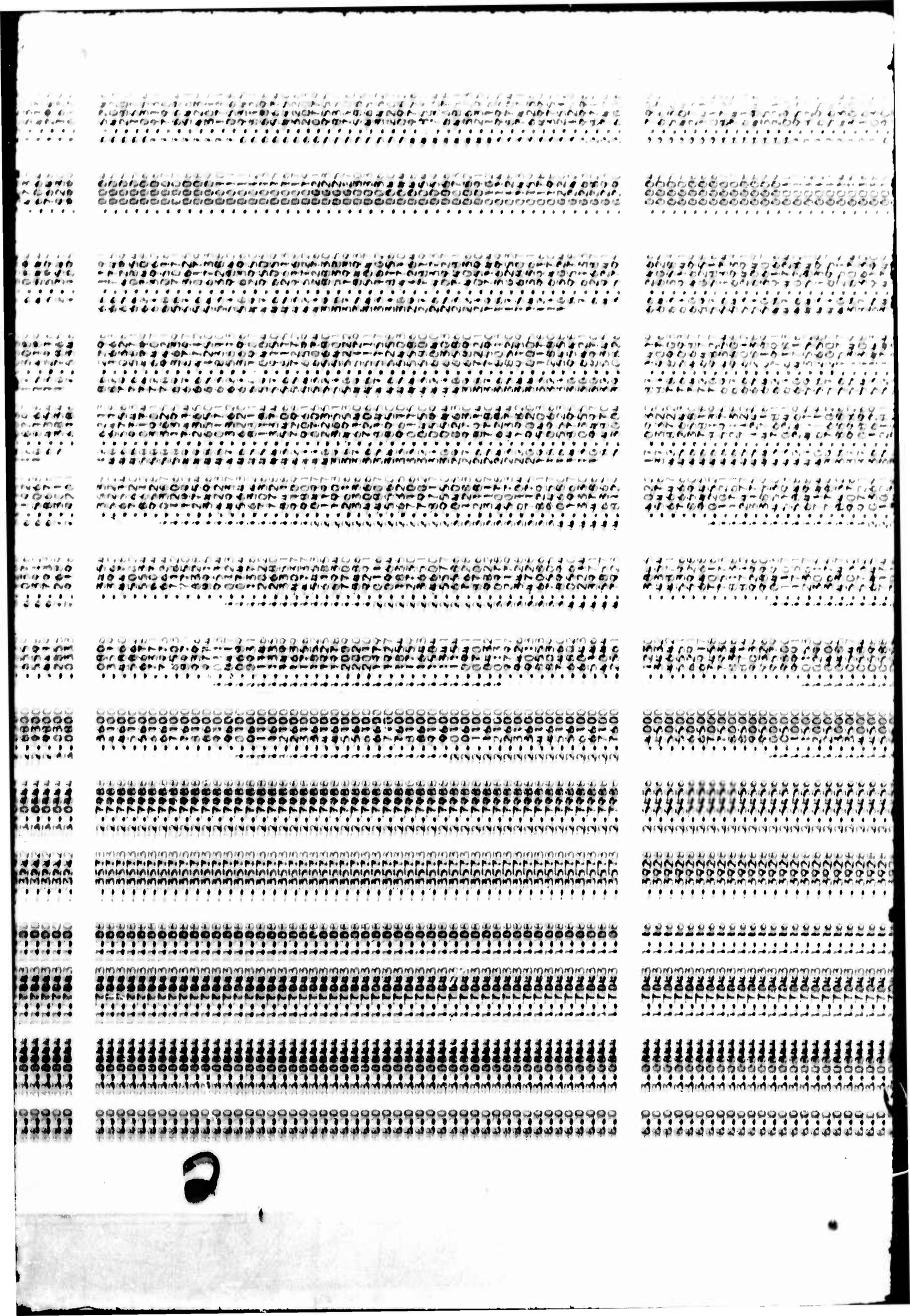


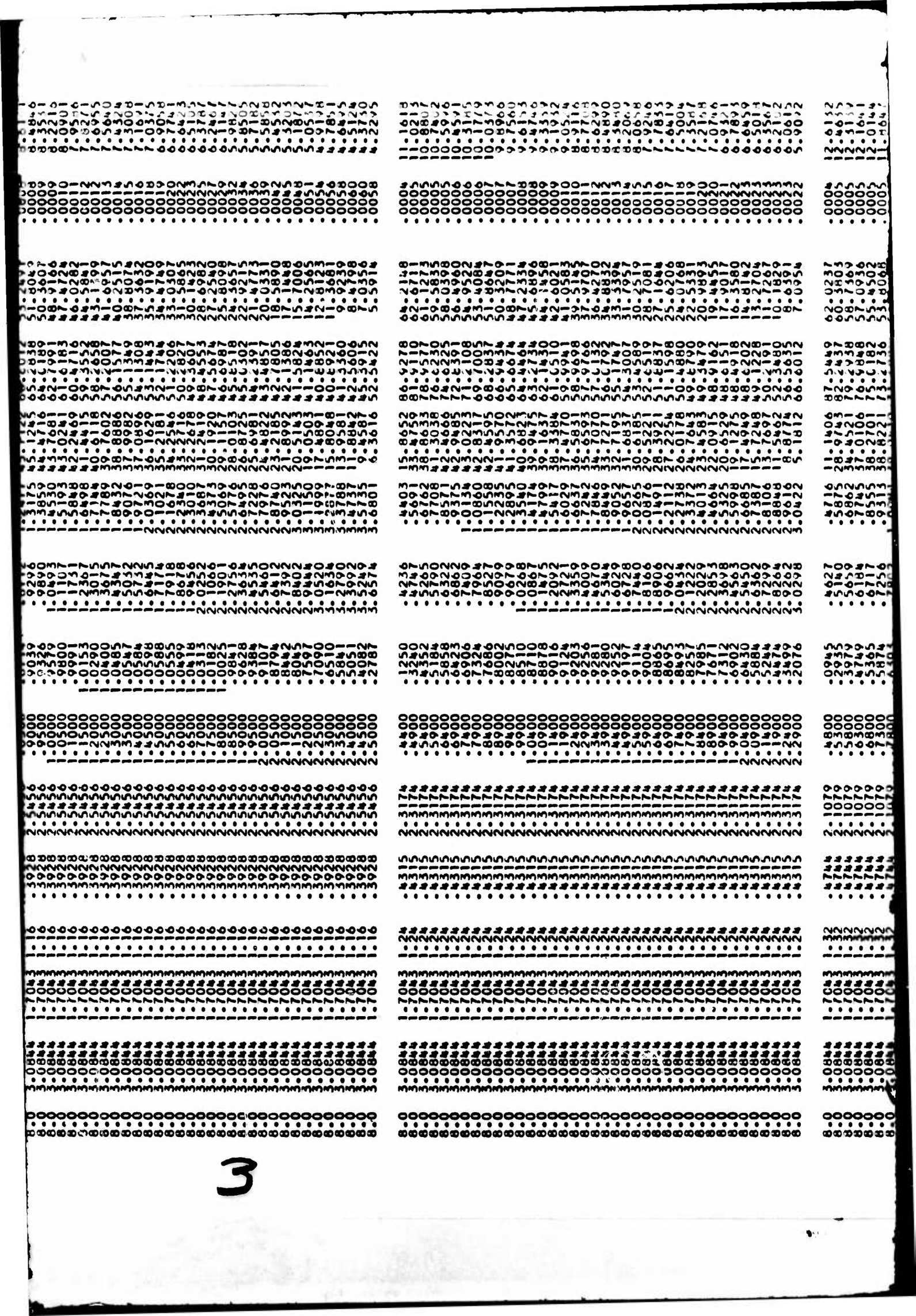
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PROPERTIES ACROSS AN OBLIQUE DETONATION WAVE

GAMMA = 1.2

MI	MI•	DELMAX	DEL	XMIN	XMAX	X(M2U•)	Y(M2V•)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
8.0	3.0844	1.7043	1.00	.3242	3.0844	.3300	.1253	.3164	.3385	20.7867	87.3961	69.5832	.0005	7.3162
8.0	3.0844	1.7043	1.00	.3242	3.0844	.3800	.3853	.3672	.5230	45.3978	81.8913	68.3382	.0005	7.2030
8.0	3.0844	1.7043	1.00	.3242	3.0844	.4300	.5256	.4189	.6615	50.7124	78.8000	67.0932	.0005	7.0898
8.0	3.0844	1.7043	1.00	.3242	3.0844	.4800	.6317	.4713	.7791	52.7696	76.3666	65.8482	.0006	6.9766
8.0	3.0844	1.7043	1.00	.3242	3.0844	.5300	.7189	.5247	.8842	53.6005	74.2818	64.6033	.0006	6.8634
8.0	3.0844	1.7043	1.00	.3242	3.0844	.5800	.7935	.5790	.9812	53.8342	72.4204	63.3583	.0007	6.7502
8.0	3.0844	1.7043	1.00	.3242	3.0844	.6300	.8587	.6343	1.0722	53.7337	70.7171	62.1133	.0007	6.6370
8.0	3.0844	1.7043	1.00	.3242	3.0844	.6800	.9166	.6905	1.1590	53.4292	69.1324	60.8683	.0008	6.5237
8.0	3.0844	1.7043	1.00	.3242	3.0844	.7300	.9685	.7478	1.2424	52.9922	67.6405	59.6234	.0009	6.4105
8.0	3.0844	1.7043	1.00	.3242	3.0844	.7800	1.0152	.8062	1.3233	52.4654	66.2233	58.3784	.0009	6.2973
8.0	3.0844	1.7043	1.00	.3242	3.0844	.8300	1.0576	.8657	1.4022	51.8752	64.8675	57.1334	.0010	6.1841
8.0	3.0844	1.7043	1.00	.3242	3.0844	.8800	1.0960	.9264	1.4796	51.2393	63.5632	55.8884	.0011	6.0709
8.0	3.0844	1.7043	1.00	.3242	3.0844	.9300	1.1310	.9882	1.5559	50.5695	62.3024	54.6435	.0012	5.9577
8.0	3.0844	1.7043	1.00	.3242	3.0844	.9800	1.1627	1.0514	1.6314	49.8739	61.0788	53.3985	.0013	5.8445
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.0300	1.1915	1.1159	1.7064	49.1582	59.8872	52.1535	.0015	5.7312
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.0800	1.2176	1.1818	1.7810	48.4268	58.7233	50.9085	.0016	5.6180
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.1300	1.2411	1.2492	1.8555	47.6824	57.5835	49.6636	.0018	5.5048
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.1800	1.2622	1.3181	1.9301	46.9274	56.4647	48.4186	.0020	5.3916
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.2300	1.2810	1.3886	2.0049	46.1632	55.3640	47.1736	.0022	5.2783
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.2800	1.2976	1.4608	2.0801	45.3910	54.2791	45.9286	.0024	5.1651
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.3300	1.3121	1.5348	2.1559	44.6115	53.2079	44.6837	.0027	5.0519
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.3800	1.3245	1.6106	2.2325	43.8251	52.1483	43.4387	.0030	4.9386
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.4300	1.3350	1.6885	2.3099	43.0321	51.0986	42.1937	.0033	4.8254
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.4800	1.3435	1.7684	2.3883	42.2327	50.0572	40.9487	.0037	4.7122
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.5300	1.3501	1.8505	2.4680	41.4268	49.0225	39.7038	.0042	4.5989
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.5800	1.3549	1.9349	2.5489	40.6141	47.9931	38.4588	.0047	4.4856
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.6300	1.3578	2.0218	2.6314	39.7944	46.9675	37.2138	.0053	4.3724
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.6800	1.3588	2.1114	2.7156	38.9672	45.9445	35.9688	.0060	4.2591
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.7300	1.3581	2.2037	2.8016	38.1322	44.9226	34.7239	.0068	4.1459
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.7800	1.3554	2.2990	2.8897	37.2887	43.9007	33.4789	.0078	4.0326
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.8300	1.3510	2.3975	2.9801	36.4360	42.8775	32.2339	.0089	3.9193
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.8800	1.3446	2.4994	3.0729	35.5734	41.8512	30.9889	.0102	3.8060
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.9300	1.3364	2.6050	3.1685	34.6999	40.8211	29.7440	.0117	3.6927
8.0	3.0844	1.7043	1.00	.3242	3.0844	1.9800	1.3262	2.7144	3.2671	33.8146	39.7855	28.4990	.0136	3.5794
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.0300	1.3141	2.8281	3.3689	32.9164	38.7429	27.2540	.0157	3.4661
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.0800	1.2999	2.9463	3.4744	32.0039	37.6918	26.0090	.0183	3.3527
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.1300	1.2837	3.0695	3.5838	31.0757	36.6306	24.7640	.0214	3.2394
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.1800	1.2652	3.1980	3.6976	30.1302	35.5574	23.5191	.0252	3.1260
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.2300	1.2445	3.3324	3.8162	29.1654	34.4703	22.2741	.0298	3.0126
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.2800	1.2215	3.4731	3.9401	28.1793	33.3671	21.0291	.0354	2.8992
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.3300	1.1959	3.6208	4.0699	27.1691	32.2452	19.7841	.0423	2.7858
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.3800	1.1676	3.7762	4.2062	26.1321	31.1020	18.5392	.0509	2.6723
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.4300	1.1365	3.9401	4.3498	25.0646	29.9342	17.2942	.0616	2.5587
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.4800	1.1022	4.1135	4.5015	23.9624	28.7380	16.0492	.0751	2.4452
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.5300	1.0646	4.2975	4.6625	22.8204	27.5091	14.8042	.0922	2.3315
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.5800	1.0232	4.4934	4.8339	21.6322	26.2421	13.5593	.1139	2.2178
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.6300	.9776	4.7028	5.0172	20.3897	24.9306	12.3143	.1420	2.1039
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.6800	.9271	4.9276	5.2141	19.0826	23.5662	11.0693	.1783	1.9900
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.7300	.8711	5.1700	5.4268	17.6969	22.1387	9.8243	.2255	1.8758
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.7800	.8084	5.4331	5.6582	16.2136	20.6340	8.5794	.2874	1.7613
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.8300	.7374	5.7206	5.9117	14.6053	19.0332	7.3344	.3683	1.6464
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.8800	.6559	6.0376	6.1922	12.8297	17.3089	6.0894	.4733	1.5307
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.9300	.5598	6.3912	6.5068	10.8168	15.4189	4.8444	.6064	1.4139
8.0	3.0844	1.7043	1.00	.3242	3.0844	2.9800	.4419	6.7933	6.8676	8.4354	13.2916	3.5995	.7648	1.2945
8.0	3.0844	1.7043	1.00	.3242	3.0844	3.0300	.2855	7.2689	7.3011	5.3834	10.7865	2.3545	.9230	1.1639
8.0	3.0844	1.7043	1.00	.3242	3.0844	3.0800	.0333	7.9196	7.9201	.6186	7.5346	1.1095	.9999	1.0175
8.0	3.0844	1.7043	1.08	.3573	2.7988	.3600	.0806	.3454	.3539	12.6213	88.2296	68.1191	.0004	8.5246
8.0	3.0844	1.7043	1.08	.3573	2.7988	.4100	.3962	.3962	.5222	40.6418	82.1663	66.7745	.0005	8.4023
8.0	3.0844	1.7043	1.08	.3573	2.7988	.4600	.4860	.4478	.6514	46.5756	79.6326	65.4299	.0005	8.2800
8.0	3.0844	1.7043	1.08	.3573	2.7988	.5100	.5442	.5002	.7831	49.3139	77.8000	64.0853	.0006	8.1577





8.0	3.0844	1.7043	1.24	.4315	2.3174	2.1400	.5244	2.7299	2.8106	13.7697	50.4191	11.7267	.0023	6.3567
8.0	3.0844	1.7043	1.24	.4315	2.3174	2.1900	.4474	2.8264	2.8848	11.5462	52.3480	10.1829	.0023	6.2102
8.0	3.0844	1.7043	1.24	.4315	2.3174	2.2400	.3499	2.9262	2.9616	8.8774	56.5635	8.6391	.0023	6.0615
8.0	3.0844	1.7043	1.24	.4315	2.3174	2.2900	.2076	3.0298	3.0422	5.1812	66.6012	7.0954	.0022	5.9092
8.0	3.0844	1.7043	1.32	.4744	2.1079	.4800	.0945	.4627	.4716	11.1406	87.5449	62.0237	.0004	12.6132
8.0	3.0844	1.7043	1.32	.4744	2.1079	.5300	.2935	.5140	.5875	28.9743	82.2437	60.3803	.0005	12.4635
8.0	3.0844	1.7043	1.32	.4744	2.1079	.5800	.3979	.5659	.6862	34.4521	79.2938	58.7369	.0005	12.3139
8.0	3.0844	1.7043	1.32	.4744	2.1079	.6300	.4749	.6184	.7745	37.0106	76.9848	57.0936	.0005	12.1641
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8.0	3.0844	1.7043	1.32	.4744	2.1079	.7800	.6303	.7802	1.0031	38.9419	71.6884	52.1635	.0006	11.7149
8.0	3.0844	1.7043	1.32	.4744	2.1079	.8300	.6668	.8356	1.0718	38.7767	70.2253	50.5201	.0006	11.5651
8.0	3.0844	1.7043	1.32	.4744	2.1079	.8800	.6978	.8917	1.1380	38.4125	68.8601	48.8767	.0006	11.4153
8.0	3.0844	1.7043	1.32	.4744	2.1079	.9300	.7241	.9486	1.2022	37.9026	67.5764	47.2334	.0006	11.2655
8.0	3.0844	1.7043	1.32	.4744	2.1079	.9800	.7461	1.0064	1.2648	37.2818	66.3623	45.5900	.0007	11.1156
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.0300	.7642	1.0649	1.3260	36.5736	65.2096	43.9466	.0007	10.9657
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.0800	.7787	1.1243	1.3861	35.7939	64.1121	42.3033	.0007	10.8157
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.1300	.7899	1.1846	1.4453	34.9540	63.0655	40.6599	.0008	10.6657
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.1800	.7978	1.2458	1.5038	34.0615	62.0671	39.0165	.0008	10.5156
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.2300	.8025	1.3080	1.5618	33.1217	61.1153	37.3732	.0008	10.3655
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.2800	.8041	1.3711	1.6192	32.1378	60.2097	35.7298	.0009	10.2154
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.3300	.8027	1.4353	1.6764	31.1117	59.3513	34.0864	.0009	10.0651
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.3800	.7982	1.5005	1.7334	30.0438	58.5423	32.4431	.0010	9.9148
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.4300	.7905	1.5668	1.7902	28.9336	57.7863	30.7997	.0010	9.7643
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.4800	.7796	1.6342	1.8471	27.7793	57.0891	29.1563	.0010	9.6138
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.5300	.7654	1.7028	1.9040	26.5779	56.4586	27.5130	.0011	9.4631
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.5800	.7477	1.7727	1.9611	25.3253	55.9061	25.8696	.0011	9.3122
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.6300	.7263	1.8438	2.0185	24.0156	55.4473	24.2262	.0011	9.1612
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.6800	.7007	1.9162	2.0762	22.6409	55.1043	22.5829	.0012	9.0099
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.7300	.6707	1.9900	2.1344	21.1906	54.9090	20.9395	.0012	8.8583
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.7800	.6356	2.0654	2.1931	19.6502	54.9082	19.2961	.0012	8.7064
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.8300	.5946	2.1422	2.2524	17.9991	55.1733	17.6528	.0013	8.5539
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.8800	.5464	2.2207	2.3126	16.2067	55.8191	16.0094	.0013	8.4009
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.9300	.4892	2.3009	2.3737	14.2247	57.0432	14.3660	.0013	8.2470
8.0	3.0844	1.7043	1.32	.4744	2.1079	1.9800	.4197	2.3830	2.4360	11.9671	59.2220	12.7226	.0013	8.0920
8.0	3.0844	1.7043	1.32	.4744	2.1079	2.0300	.3306	2.4672	2.4997	9.2500	63.2048	11.0793	.0012	7.9353
8.0	3.0844	1.7043	1.32	.4744	2.1079	2.0800	.1990	2.5537	2.5654	5.4664	71.7779	9.4359	.0012	7.7761
8.0	3.0844	1.7043	1.40	.5231	1.9116	.5300	.0966	.5121	.5206	10.3277	87.3374	59.3246	.0004	14.1213
8.0	3.0844	1.7043	1.40	.5231	1.9116	.5800	.2726	.5636	.6228	25.1728	82.3401	57.5816	.0004	13.9625
8.0	3.0844	1.7043	1.40	.5231	1.9116	.6300	.3665	.6157	.7123	30.1868	79.4973	55.8386	.0005	13.8036
8.0	3.0844	1.7043	1.40	.5231	1.9116	.6800	.4351	.6685	.7936	32.6139	77.2749	54.0957	.0005	13.6447
8.0	3.0844	1.7043	1.40	.5231	1.9116	.7300	.4892	.7218	.8689	33.8500	75.3892	52.3527	.0005	13.4857
8.0	3.0844	1.7043	1.40	.5231	1.9116	.7800	.5333	.7759	.9399	34.3621	73.7253	50.6097	.0005	13.3264
8.0	3.0844	1.7043	1.40	.5231	1.9116	.8300	.5697	.8306	1.0074	34.4637	72.2233	48.8668	.0005	13.1670
8.0	3.0844	1.7043	1.40	.5231	1.9116	.8800	.5997	.8860	1.0721	34.2739	70.8481	47.1238	.0006	13.0074
8.0	3.0844	1.7043	1.40	.5231	1.9116	.9300	.6243	.9421	1.1347	33.8751	69.5774	45.3808	.0006	12.8476
8.0	3.0844	1.7043	1.40	.5231	1.9116	.9800	.6442	.9989	1.1954	33.3193	68.3964	43.6379	.0006	12.6905
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.0300	.6597	1.0565	1.2547	32.6404	67.2954	41.8949	.0006	12.5313
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.0800	.6712	1.1149	1.3127	31.8612	66.2682	40.1519	.0006	12.3720
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.1300	.6789	1.1741	1.3698	30.9970	65.3114	38.4090	.0007	12.2126
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.1800	.6829	1.2342	1.4259	30.0561	64.4241	36.6660	.0007	12.0532
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.2300	.6832	1.2951	1.4815	29.0508	63.6074	34.9230	.0007	11.8937
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.2800	.6800	1.3569	1.5364	27.9787	62.8650	33.1801	.0007	11.7340
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.3300	.6731	1.4196	1.5910	26.8430	62.2035	31.4371	.0007	11.5743
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.3800	.6624	1.4832	1.6452	25.6425	61.6318	29.6942	.0008	11.4145
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.4300	.6479	1.5478	1.6993	24.3739	61.1648	27.9512	.0008	11.2542
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.4800	.6292	1.6135	1.7532	23.0311	60.8222	26.2082	.0008	11.0939
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.5300	.6059	1.6802	1.8072	21.6053	60.6327	24.4653	.0008	10.9333
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.5800	.5777	1.7480	1.8612	20.0831	60.6381	22.7223	.0008	10.7724
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.6300	.5437	1.8170	1.9154	18.4451	60.9010	20.9793	.0008	10.6110
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.6800	.5028	1.8872	1.9699	16.6618	61.5194	19.2364	.0008	10.4492
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.7300	.4534	1.9586	2.0248	14.6859	62.6560	17.4934	.0008	10.2867
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.7800	.3924	2.0315	2.0802	12.4334	64.6081	15.7504	.0008	10.1232
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.8300	.3137	2.1057	2.1364	9.7263	68.0110	14.0075	.0008	9.9586
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.8800	.1977	2.1816	2.1936	6.0036	74.7816	12.2645	.0008	9.7922
8.0	3.0844	1.7043	1.48	.5805	1.7226	.5900	.1026	.5719	.5805	9.8662	86.9806	56.0578	.0004	15.6805
8.0	3.0844	1.7043	1.48	.5805	1.7226	.6400	.2512	.6238	.6701	21.4298	82.4504	54.2152	.0004	15.5124
8.0	3.0844	1.7043	1.48	.5805	1.7226	.6900	.3327	.6762	.7507	25.7431	79.7795	52.3726	.0004	15.3443
8.0	3.0844	1.7043	1.48	.5805	1.7226	.7400	.3916	.7292	.8250	27.8856	77.6964	50.5301	.0005	15.1761
8.0	3.0844	1.7043	1.48	.5805	1.7226	.7900	.4370	.7828	.8946	28.9513	75.9426	48.6875	.0005	15.0079
8.0	3.0844	1.7043	1.48	.5805	1.7226	.8400	.4730	.8370	.9606	29.3817	74.4123	46.8449	.0005	14.8396
8.0	3.0844	1.7043	1.48	.5805	1.7226	.8900	.5014	.8919	1.0238	29.3975	73.0510	45.0024	.0005	14.6713
8.0	3.0844	1.7043	1.48	.5805	1.7226	.9400	.5237	.9475	1.0846	29.1221	71.8278	43.1598	.0005	14.5029
8.0	3.0844	1.7043	1.48	.5805	1.7226	.9900	.5404	1.0038	1.1436	28.6303	70.7242	41.3172	.0005	14.3345
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.0400	.5523	1.0607	1.2010	27.9692	69.7300	39.4747	.0005	14.1661
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.0900	.5594	1.1184	1.2571	27.1691	68.8406	[illegible]	.0005	[illegible]

8.0	3.0844	1.7043	1.40	.5231	1.9116	1.7800	.3924	2.0315	2.0802	12.4334	64.6081	15.7504	.0008	10.1232
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.8300	.3137	2.1057	2.1364	9.7263	68.0110	14.0075	.0008	9.9546
8.0	3.0844	1.7043	1.40	.5231	1.9116	1.8800	.1977	2.1816	2.1936	6.0036	74.7816	12.2645	.0008	9.7922
8.0	3.0844	1.7043	1.48	.5805	1.7226	.5900	.1026	.5719	.5805	9.8662	86.9806	56.0578	.0004	15.6805
8.0	3.0844	1.7043	1.48	.5805	1.7226	.6400	.2512	.6238	.6701	21.4298	82.4504	54.2152	.0004	15.5124
8.0	3.0844	1.7043	1.48	.5805	1.7226	.6900	.3327	.6762	.7507	25.7431	79.7795	52.3726	.0004	15.3443
8.0	3.0844	1.7043	1.48	.5805	1.7226	.7400	.3916	.7292	.8250	27.8856	77.6964	50.5301	.0005	15.1761
8.0	3.0844	1.7043	1.48	.5805	1.7226	.7900	.4370	.7828	.8946	28.9513	75.9426	48.6875	.0005	15.0079
8.0	3.0844	1.7043	1.48	.5805	1.7226	.8400	.4730	.8370	.9606	29.3817	74.4123	46.8449	.0005	14.8396
8.0	3.0844	1.7043	1.48	.5805	1.7226	.8900	.5014	.8919	1.0238	29.3975	73.0510	45.0024	.0005	14.6713
8.0	3.0844	1.7043	1.48	.5805	1.7226	.9400	.5237	.9475	1.0846	29.1221	71.8278	43.1598	.0005	14.5028
8.0	3.0844	1.7043	1.48	.5805	1.7226	.9900	.5404	1.0038	1.1436	28.6303	70.7242	41.3172	.0005	14.3345
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.0400	.5523	1.0607	1.2010	27.9692	69.7300	39.4747	.0005	14.1658
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.0900	.5594	1.1184	1.2571	27.1691	68.8406	37.6321	.0006	13.9971
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.1400	.5622	1.1768	1.3121	26.2496	68.0560	35.7896	.0006	13.8282
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.1900	.5605	1.2360	1.3662	25.2224	67.3812	33.9470	.0006	13.6593
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.2400	.5545	1.2960	1.4196	24.0934	66.8256	32.1044	.0006	13.4902
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.2900	.5440	1.3568	1.4725	22.8638	66.4050	30.2619	.0006	13.3208
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.3400	.5286	1.4184	1.5248	21.5295	66.1431	28.4193	.0006	13.1515
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.3900	.5082	1.4809	1.5768	20.0812	66.0751	26.5767	.0006	12.9814
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.4400	.4819	1.5444	1.6285	18.5024	66.2538	24.7342	.0006	12.8112
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.4900	.4489	1.6087	1.6802	16.7658	66.7608	22.8916	.0006	12.6406
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.5400	.4076	1.6741	1.7317	14.8257	67.7298	21.0490	.0006	12.4695
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.5900	.3554	1.7405	1.7834	12.5987	69.3984	19.2065	.0006	12.2976
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.6400	.2864	1.8080	1.8353	9.9068	72.4605	17.3639	.0006	12.1248
8.0	3.0844	1.7043	1.48	.5805	1.7226	1.6900	.1834	1.8766	1.8876	6.1938	77.7590	15.5214	.0006	11.9508
8.0	3.0844	1.7043	1.56	.6525	1.5325	.6600	.0798	.6423	.6470	6.8945	87.4747	52.1635	.0004	17.2851
8.0	3.0844	1.7043	1.56	.6525	1.5325	.7100	.2150	.6946	.7257	16.8481	83.0330	50.2213	.0004	17.1077
8.0	3.0844	1.7043	1.56	.6525	1.5325	.7600	.2848	.7474	.7981	20.5454	80.5402	48.2791	.0004	16.9302
8.0	3.0844	1.7043	1.56	.6525	1.5325	.8100	.3333	.8007	.8659	22.3657	78.6439	46.3370	.0004	16.7526
8.0	3.0844	1.7043	1.56	.6525	1.5325	.8600	.3689	.8547	.9300	23.2169	77.0908	44.3948	.0004	16.5750
8.0	3.0844	1.7043	1.56	.6525	1.5325	.9100	.3952	.9093	.9913	23.4722	75.7813	42.4527	.0005	16.3973
8.0	3.0844	1.7043	1.56	.6525	1.5325	.9600	.4139	.9645	1.0503	23.3209	74.6680	40.5105	.0005	16.2194
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.0100	.4260	1.0203	1.1074	22.8698	73.7280	38.5683	.0005	16.0415
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.0600	.4322	1.0768	1.1629	22.1820	72.9531	36.6262	.0005	15.8633
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.1100	.4327	1.1340	1.2171	21.2951	72.3463	34.6840	.0005	15.6850
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.1600	.4275	1.1919	1.2703	20.2291	71.9215	32.7419	.0005	15.5065
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.2100	.4164	1.2505	1.3225	18.9911	71.7047	30.7997	.0005	15.3278
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.2600	.3991	1.3099	1.3740	17.5749	71.7391	28.8575	.0005	15.1488
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.3100	.3746	1.3700	1.4249	15.9595	72.0943	26.9154	.0005	14.9694
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.3600	.3416	1.4309	1.4753	14.1002	72.8865	24.9732	.0005	14.7895
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.4100	.2973	1.4926	1.5254	11.9062	74.3260	23.0310	.0005	14.6091
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.4600	.2356	1.5552	1.5753	9.1659	76.8645	21.0889	.0005	14.4280
8.0	3.0844	1.7043	1.56	.6525	1.5325	1.5100	.1348	1.6187	1.6252	5.1010	82.0035	19.1467	.0005	14.2460
8.0	3.0844	1.7043	1.64	.7564	1.3220	.7600	.0442	.7445	.7458	3.3284	88.4642	46.7653	.0004	18.8544
8.0	3.0844	1.7043	1.64	.7564	1.3220	.8100	.1636	.7975	.8135	11.4164	84.1577	44.7235	.0004	18.6675
8.0	3.0844	1.7043	1.64	.7564	1.3220	.8600	.2159	.8510	.8774	14.0940	82.0620	42.6817	.0004	18.4805
8.0	3.0844	1.7043	1.64	.7564	1.3220	.9100	.2481	.9050	.9381	15.2521	80.5980	40.6400	.0004	18.2933
8.0	3.0844	1.7043	1.64	.7564	1.3220	.9600	.2676	.9597	.9963	15.5755	79.5334	38.5982	.0004	18.1060
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.0100	.2770	1.0149	1.0524	15.3388	78.7950	36.5565	.0004	17.9184
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.0600	.2775	1.0708	1.1069	14.6716	78.3709	34.5147	.0004	17.7307
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.1100	.2691	1.1273	1.1600	13.6294	78.2902	32.4729	.0004	17.5427
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.1600	.2511	1.1845	1.2119	12.2123	78.6301	30.4312	.0004	17.3543
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.2100	.2210	1.2423	1.2628	10.3510	79.5520	28.3894	.0004	17.1656
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.2600	.1730	1.3008	1.3130	7.8171	81.4348	26.3477	.0004	16.9763
8.0	3.0844	1.7043	1.64	.7564	1.3220	1.3100	.0796	1.3600	1.3626	3.4769	85.8558	24.3059	.0004	16.7865

PROPERTIES ACROSS AN OBLIQUE DETONATION WAVE

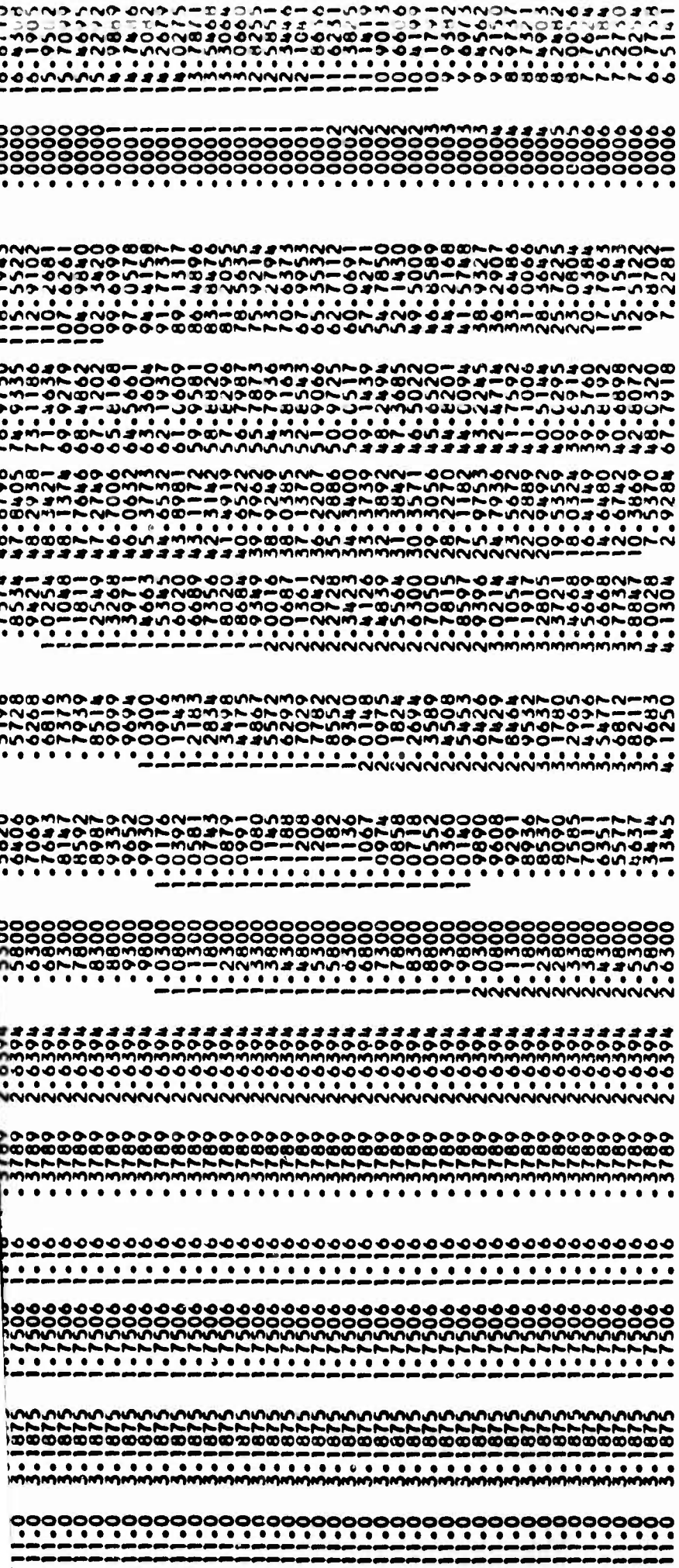
GAMMA = 1.2

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
11.0	3.1875	1.7506	1.00	.3137	3.1875	.3200	.1336	.3068	.3325	22.6610	87.3324	131.6232	.0000	12.9568
11.0	3.1875	1.7506	1.00	.3137	3.1875	.3700	.3965	.3576	.5241	46.9812	81.9893	129.3455	.0000	12.7497
11.0	3.1875	1.7506	1.00	.3137	3.1875	.4200	.5400	.4093	.6666	52.1250	78.9592	127.0679	.0000	12.5427
11.0	3.1875	1.7506	1.00	.3137	3.1875	.4700	.6488	.4618	.7872	54.0810	76.5717	124.7903	.0000	12.3356
11.0	3.1875	1.7506	1.00	.3137	3.1875	.5200	.7385	.5153	.8950	54.8488	74.5258	122.5126	.0000	12.1285
11.0	3.1875	1.7506	1.00	.3137	3.1875	.5700	.8153	.5697	.9943	55.0418	72.6992	120.2350	.0000	11.9214
11.0	3.1875	1.7506	1.00	.3137	3.1875	.6200	.8827	.6251	1.0876	54.9153	71.0279	117.9574	.0000	11.7144
11.0	3.1875	1.7506	1.00	.3137	3.1875	.6700	.9426	.6816	1.1765	54.5946	69.4735	115.6798	.0000	11.5073
11.0	3.1875	1.7506	1.00	.3137	3.1875	.7200	.9964	.7391	1.2620	54.1488	68.0104	113.4021	.0001	11.3002
11.0	3.1875	1.7506	1.00	.3137	3.1875	.7700	1.0451	.7978	1.3450	53.6184	66.6210	111.1245	.0001	11.0932
11.0	3.1875	1.7506	1.00	.3137	3.1875	.8200	1.0893	.8577	1.4261	53.0289	65.2924	108.8469	.0001	10.8861
11.0	3.1875	1.7506	1.00	.3137	3.1875	.8700	1.1296	.9187	1.5057	52.3972	64.0146	106.5692	.0001	10.6790
11.0	3.1875	1.7506	1.00	.3137	3.1875	.9200	1.1664	.9811	1.5842	51.7342	62.7800	104.2916	.0001	10.4719
11.0	3.1875	1.7506	1.00	.3137	3.1875	.9700	1.1999	1.0448	1.6619	51.0479	61.5822	102.0140	.0001	10.2648
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.0200	1.2305	1.1099	1.7392	50.3437	60.4164	99.7363	.0001	10.0578
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.0700	1.2584	1.1765	1.8162	49.6256	59.2783	97.4587	.0001	9.8507
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.1200	1.2837	1.2446	1.8932	48.8962	58.1642	95.1811	.0001	9.6436
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.1700	1.3066	1.3144	1.9703	48.1578	57.0712	92.9034	.0001	9.4365
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.2200	1.3273	1.3858	2.0479	47.4117	55.9966	90.6258	.0001	9.2295
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.2700	1.3458	1.4591	2.1259	46.6590	54.9380	88.3482	.0002	9.0224
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.3200	1.3621	1.5342	2.2047	45.9003	53.8934	86.0706	.0002	8.8153
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.3700	1.3765	1.6114	2.2843	45.1363	52.8609	83.7929	.0002	8.6082
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.4200	1.3890	1.6907	2.3650	44.3671	51.8388	81.5153	.0002	8.4011
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.4700	1.3995	1.7722	2.4469	43.5928	50.8255	79.2377	.0003	8.1940
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.5200	1.4082	1.8561	2.5302	42.8134	49.8195	76.9600	.0003	7.9869
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.5700	1.4151	1.9425	2.6150	42.0288	48.8195	74.6824	.0003	7.7798
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.6200	1.4201	2.0316	2.7016	41.2388	47.8241	72.4048	.0004	7.5727
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.6700	1.4234	2.1235	2.7902	40.4431	46.8322	70.1271	.0004	7.3656
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.7200	1.4250	2.2185	2.8809	39.6412	45.8424	67.8495	.0005	7.1585
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.7700	1.4248	2.3167	2.9741	38.8328	44.8536	65.5719	.0006	6.9514
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.8200	1.4228	2.4185	3.0698	38.0172	43.8647	63.2943	.0007	6.7443
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.8700	1.4191	2.5240	3.1685	37.1939	42.8744	61.0166	.0008	6.5372
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.9200	1.4136	2.6335	3.2703	36.3622	41.8816	58.7390	.0009	6.3301
11.0	3.1875	1.7506	1.00	.3137	3.1875	1.9700	1.4063	2.7474	3.3756	35.5213	40.8850	56.4614	.0011	6.1230
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.0200	1.3972	2.8660	3.4848	34.6703	39.8834	54.1837	.0013	5.9159
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.0700	1.3862	2.9898	3.5982	33.8084	38.8753	51.9061	.0015	5.7087
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.1200	1.3733	3.1191	3.7163	32.9344	37.8596	49.6285	.0018	5.5016
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.1700	1.3584	3.2545	3.8396	32.0471	36.8345	47.3508	.0021	5.2945
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.2200	1.3416	3.3966	3.9687	31.1451	35.7986	45.0732	.0026	5.0873
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.2700	1.3226	3.5461	4.1041	30.2269	34.7501	42.7956	.0032	4.8801
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.3200	1.3014	3.7037	4.2466	29.2909	33.6870	40.5180	.0039	4.6730
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.3700	1.2780	3.8703	4.3971	28.3348	32.6072	38.2403	.0048	4.4658
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.4200	1.2521	4.0469	4.5565	27.3565	31.5083	35.9627	.0060	4.2586
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.4700	1.2236	4.2348	4.7260	26.3532	30.3874	33.6851	.0076	4.0515
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.5200	1.1924	4.4355	4.9070	25.3217	29.2415	31.4074	.0097	3.8443
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.5700	1.1581	4.6506	5.1010	24.2581	28.0667	29.1298	.0126	3.6368
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.6200	1.1207	4.8823	5.3102	23.1579	26.8586	26.8522	.0165	3.4295
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.6700	1.0796	5.1331	5.5368	22.0153	25.6119	24.5745	.0220	3.2221
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.7200	1.0345	5.4061	5.7839	20.8232	24.3199	22.2969	.0297	3.0147
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.7700	.9848	5.7054	6.0552	19.5723	22.9744	20.0193	.0409	2.8072
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.8200	.9299	6.0359	6.3556	18.2506	21.5648	17.7416	.0575	2.5996
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.8700	.8688	6.4042	6.6911	16.8414	20.0768	15.4640	.0826	2.3918
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.9200	.8000	6.8191	7.0703	15.3210	18.4908	13.1864	.1216	2.1837
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.9700	.7215	7.2926	7.5047	13.6535	16.7784	10.9088	.1847	1.9752
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.0200	.6298	7.8423	8.0111	11.7800	14.8952	8.6311	.2845	1.7660
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.0700	.5187	8.4950	8.6155	9.5907	12.7652	6.3535	.4488	1.5553
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.1200	.3740	9.2991	9.3656	6.8356	10.2341	4.0759	.7020	1.3426
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.1700	.1454	10.3951	10.4060	2.6266	6.8708	1.7982	.9746	1.1075
11.0	3.1875	1.7506	1.08	.3452	2.8967	.3500	.1098	.3358	.3519	17.4204	87.6856	128.9611	.0000	15.0929
11.0	3.1875	1.7506	1.08	.3452	2.8967	.4000	.3682	.3866	.5255	42.6305	82.1399	126.5213	.0000	14.8673
[illegible]														

11.0	3.1875	1.7506	1.00	.3137	3.1875	2.7200	1.0345	5.4061	5.7839	20.8232	24.3199	22.2969	.0297	3.0167
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.7700	.9848	5.7054	6.0552	19.5723	22.9744	20.0193	.0409	2.8072
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.8200	.9299	6.0359	6.3556	18.2506	21.5648	17.7416	.0575	2.5976
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.8700	.8688	6.4042	6.6911	16.8414	20.0768	15.4640	.0826	2.3918
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.9200	.8000	6.8191	7.0703	15.3210	18.4908	13.1864	.1216	2.1857
11.0	3.1875	1.7506	1.00	.3137	3.1875	2.9700	.7215	7.2926	7.5047	13.6535	16.7784	10.9088	.1837	1.9752
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.0200	.6298	7.8423	8.0111	11.7800	14.6952	8.6311	.2845	1.7660
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.0700	.5187	8.4950	8.6155	9.5907	12.7652	6.3535	.4488	1.5553
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.1200	.3740	9.2991	9.3656	6.8356	10.2341	4.0759	.7020	1.3406
11.0	3.1875	1.7506	1.00	.3137	3.1875	3.1700	.1454	10.3951	10.4060	2.6266	6.8708	1.7982	.9746	1.1075

11.0	3.1875	1.7506	1.08	.3452	2.8967	.3500	.1098	.3358	.3519	17.4204	87.6856	128.9811	.0000	15.0929
11.0	3.1875	1.7506	1.08	.3452	2.8967	.4000	.3682	.3866	.5255	42.6305	82.1399	126.5213	.0000	14.8693
11.0	3.1875	1.7506	1.08	.3452	2.8967	.4500	.5041	.4383	.6581	48.2444	79.0981	124.0614	.0000	14.6456
11.0	3.1875	1.7506	1.08	.3452	2.8967	.5000	.6063	.4907	.7713	50.4894	76.7115	121.6016	.0000	14.4219
11.0	3.1875	1.7506	1.08	.3452	2.8967	.5500	.6900	.5440	.8728	51.4430	74.6703	119.1418	.0000	14.1982
11.0	3.1875	1.7506	1.08	.3452	2.8967	.6000	.7614	.5982	.9665	51.7597	72.8501	116.6819	.0000	13.9746
11.0	3.1875	1.7506	1.08	.3452	2.8967	.6500	.8235	.6533	1.0545	51.7164	71.1863	114.2221	.0000	13.7509
11.0	3.1875	1.7506	1.08	.3452	2.8967	.7000	.8785	.7093	1.1383	51.4511	69.6399	111.7622	.0000	13.5272
11.0	3.1875	1.7506	1.08	.3452	2.8967	.7500	.9275	.7664	1.2188	51.0401	68.1854	109.3024	.0000	13.3035
11.0	3.1875	1.7506	1.08	.3452	2.8967	.8000	.9715	.8244	1.2969	50.5293	66.8050	106.8425	.0001	13.0798
11.0	3.1875	1.7506	1.08	.3452	2.8967	.8500	1.0111	.8835	1.3730	49.9473	65.4858	104.3827	.0001	12.8561
11.0	3.1875	1.7506	1.08	.3452	2.8967	.9000	1.0468	.9438	1.4477	49.3132	64.2178	101.9229	.0001	12.6325
11.0	3.1875	1.7506	1.08	.3452	2.8967	.9500	1.0791	1.0051	1.5211	48.6398	62.9934	99.4630	.0001	12.4088
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.0000	1.1081	1.0677	1.5937	47.9361	61.8064	97.0032	.0001	12.1851
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.0500	1.1342	1.1315	1.6656	47.2085	60.6517	94.5433	.0001	11.9614
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.1000	1.1576	1.1966	1.7372	46.4615	59.5253	92.0835	.0001	11.7376
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.1500	1.1784	1.2631	1.8085	45.6984	58.4235	89.6237	.0001	11.5139
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.2000	1.1967	1.3310	1.8798	44.9216	57.3434	87.1638	.0001	11.2902
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.2500	1.2127	1.4005	1.9512	44.1329	56.2824	84.7040	.0001	11.0665
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.3000	1.2265	1.4714	2.0229	43.3333	55.2383	82.2441	.0001	10.8428
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.3500	1.2381	1.5440	2.0950	42.5238	54.2089	79.7843	.0001	10.6190
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.4000	1.2476	1.6184	2.1677	41.7047	53.1926	77.3245	.0002	10.3953
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.4500	1.2550	1.6945	2.2410	40.8764	52.1877	74.8646	.0002	10.1715
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.5000	1.2604	1.7725	2.3152	40.0389	51.1927	72.4048	.0002	9.9478
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.5500	1.2638	1.8526	2.3903	39.1920	50.2065	69.9449	.0002	9.7240
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.6000	1.2652	1.9347	2.4665	38.3355	49.2277	67.4851	.0002	9.5002
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.6500	1.2647	2.0191	2.5440	37.4688	48.2552	65.0253	.0003	9.2764
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.7000	1.2621	2.1058	2.6228	36.5915	47.2881	62.5654	.0003	9.0526
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.7500	1.2576	2.1951	2.7031	35.7027	46.3253	60.1056	.0003	8.8288
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.8000	1.2511	2.2870	2.7851	34.8016	45.3661	57.6457	.0004	8.6050
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.8500	1.2425	2.3817	2.8690	33.8872	44.4095	55.1859	.0004	8.3811
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.9000	1.2319	2.4794	2.9549	32.9583	43.4550	52.7261	.0005	8.1572
11.0	3.1875	1.7506	1.08	.3452	2.8967	1.9500	1.2191	2.5803	3.0431	32.0135	42.5017	50.2662	.0005	7.9333
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.0000	1.2042	2.6846	3.1337	31.0513	41.5493	47.8064	.0006	7.7094
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.0500	1.1869	2.7926	3.2269	30.0698	40.5972	45.3465	.0006	7.4854
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.1000	1.1673	2.9045	3.3230	29.0670	39.6453	42.8867	.0007	7.2614
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.1500	1.1451	3.0206	3.4224	28.0403	38.6934	40.4268	.0008	7.0374
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.2000	1.1203	3.1413	3.5252	26.9870	37.7419	37.9670	.0010	6.8132
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.2500	1.0927	3.2669	3.6318	25.9035	36.7914	35.5072	.0011	6.5891
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.3000	1.0621	3.3978	3.7426	24.7858	35.8432	33.0473	.0013	6.3648
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.3500	1.0281	3.5345	3.8580	23.6288	34.8995	30.5875	.0014	6.1404
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.4000	.9905	3.6776	3.9785	22.4264	33.9640	28.1276	.0017	5.9159
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.4500	.9489	3.8276	4.1046	21.1708	33.0425	25.6678	.0019	5.6913
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.5000	.9026	3.9852	4.2370	19.8520	32.1449	23.2080	.0022	5.4664
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.5500	.8511	4.1513	4.3764	18.4566	31.2871	20.7481	.0025	5.2412
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.6000	.7932	4.3269	4.5238	16.9665	30.4970	18.2883	.0029	5.0156
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.6500	.7277	4.5130	4.6801	15.3554	29.6256	15.8284	.0033	4.7894
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.7000	.6524	4.7112	4.8468	13.5833	29.3738	13.3686	.0037	4.5623
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.7500	.5637	4.9235	5.0258	11.5836	29.3677	10.9088	.0041	4.3336
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.8000	.4550	5.1526	5.2202	9.2292	30.4253	8.4489	.0045	4.1020
11.0	3.1875	1.7506	1.08	.3452	2.8967	2.8500	.3097	5.4038	5.4356	6.2022	35.0408	5.9891	.0045	3.8658

11.0	3.1875	1.7506	1.16	.3789	2.6394	.3800	.0504	.3648	.3680	7.5519	88.6812	126.1204	.0000	17.3919
11.0	3.1875	1.7506	1.16	.3789	2.6394	.4300	.3346	.4156	.5267	37.8906	82.4642	123.4784	.0000	17.1516
11.0	3.1875	1.7506	1.16	.3789	2.6394	.4800	.4652	.4673	.6507	44.1036	79.3737	120.8363	.0000	16.9113
11.0	3.1875	1.7506	1.16	.3789	2.6394	.5300	.5620	.5196	.7574	46.6796	76.9750	118.1943	.0000	16.6710
11.0	3.1875	1.7506	1.16	.3789	2.6394	.5800	.6406	.5728	.8534	47.8405	74.9335	115.5522	.0000	16.4308
11.0	3.1875	1.7506	1.16	.3789	2.6394	.6300	.7069	.6268	.9421	48.2938	73.1186	112.9102	.0000	16.1905
11.0	3.1875	1.7506	1.16	.3789	2.6394	.6800	.7643	.6816	1.0254	48.3421	71.4634	110.2681	.0000	15.9502
11.0	3.1875	1.7506	1.16	.3789	2.6394	.7300	.8147	.7373	1.1048	48.1373	69.9279	107.6261	.0000	15.7099
11.0	3.1875	1.7506	1.16	.3789	2.6394	.7800	.8592	.7939	1.1811	47.7646	68.4862	104.9840	.0000	15.4695
11.0	3.1875	1.7506	1.16	.3789	2.6394	.8300	.8987	.8514	1.2549	47.2749	67.1202	102.3420	.0000	15.2292
11.0	3.1875	1.7506	1.16	.3789	2.6394	.8800	.9339	.9099	1.3268	46.7006	65.8168	99.6999	.0001	14.9889
11.0	3.1875	1.7506	1.16	.3789	2.6394	.9300	.9652	.9694	1.3971	46.0632	64.5661	97.0578	.0001	14.7486
11.0	3.1875	1.7506	1.16	.3789	2.6394	.9800	.9930	1.0300	1.4663	45.3773	63.3604	94.4158	.0001	14.5082
11.0	3.1875	1.7506	1.16	.3789	2.6394	1.0300	1.0176	1.0916	1.5345	44.6532	62.1937	91.7737	.0001	14.2679
11.0	3.1875	1.7506	1.16	.3789	2.6394	1.0800	1.0392	1.1543	1.6020	43.8981	61.0609	89.1317	.0001	14.0275
11.0	3.1875	1.7506	1.16	.3789	2.6394	1.1300	1.0581	1.2183	1.6689	43.1172	59.9581	86.4896	.0001	13.7871
11.0	3.1875	1.7506	1.16	.3789	2.6394	1.1800	1.0743	1.2834	1.7356	42.3142	58.8820	83.8476	.0001	13.5468



11.0	3.1875	1.7506	1.24	.4152	2.4084	1.7700	.9190	2.1121	2.3798	27.4376	49.9307	46.2211	.0001	12.8574
11.0	3.1875	1.7506	1.24	.4152	2.4084	1.8200	.8977	2.1939	2.4463	26.2534	49.2689	43.3969	.0001	12.6016
11.0	3.1875	1.7506	1.24	.4152	2.4084	1.8700	.8730	2.2776	2.5136	25.0262	48.6635	40.5726	.0002	12.3436
11.0	3.1875	1.7506	1.24	.4152	2.4084	1.9200	.8448	2.3634	2.5820	23.7497	48.1281	37.7484	.0002	12.0854
11.0	3.1875	1.7506	1.24	.4152	2.4084	1.9700	.8126	2.4513	2.6516	22.4157	47.6820	34.9241	.0002	11.8269
11.0	3.1875	1.7506	1.24	.4152	2.4084	2.0200	.7760	2.5414	2.7225	21.0139	47.3534	32.0998	.0002	11.5682
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11.0	3.1875	1.7506	1.32	.4551	2.1974	.4600	.0919	.4430	.4518	11.3027	87.7251	118.5405	.0000	22.3668
11.0	3.1875	1.7506	1.32	.4551	2.1974	.5100	.3030	.4942	.5749	30.7114	82.3797	115.5340	.0000	22.0953
11.0	3.1875	1.7506	1.32	.4551	2.1974	.5600	.4124	.5461	.6782	36.3722	79.4491	112.5275	.0000	21.8217
11.0	3.1875	1.7506	1.32	.4551	2.1974	.6100	.4934	.5986	.7699	38.9683	77.1579	109.5210	.0000	21.5461
11.0	3.1875	1.7506	1.32	.4551	2.1974	.6600	.5584	.6518	.8538	40.2328	75.2065	106.5146	.0000	21.2686
11.0	3.1875	1.7506	1.32	.4551	2.1974	.7100	.6125	.7058	.9321	40.7835	73.4745	103.5081	.0000	21.0010
11.0	3.1875	1.7506	1.32	.4551	2.1974	.7600	.6584	.7604	1.0061	40.9038	71.8996	100.5016	.0000	20.7275
11.0	3.1875	1.7506	1.32	.4551	2.1974	.8100	.6978	.8159	1.0768	40.7432	70.4443	97.4952	.0000	20.4537
11.0	3.1875	1.7506	1.32	.4551	2.1974	.8600	.7316	.8721	1.1449	40.3886	69.0846	94.4887	.0000	20.1800
11.0	3.1875	1.7506	1.32	.4551	2.1974	.9100	.7607	.9291	1.2110	39.8933	67.8038	91.4822	.0000	19.9064
11.0	3.1875	1.7506	1.32	.4551	2.1974	.9600	.7855	.9869	1.2753	39.2923	66.5899	88.4757	.0000	19.6326
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.0100	.8065	1.0457	1.3382	38.6088	65.4342	85.4693	.0000	19.3589
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.0600	.8240	1.1053	1.3999	37.8588	64.3302	82.4628	.0000	19.0851
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.1100	.8381	1.1658	1.4608	37.0535	63.2733	79.4563	.0001	18.8113
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.1600	.8490	1.2273	1.5209	36.2008	62.2598	76.4498	.0001	18.5375
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.2100	.8569	1.2897	1.5804	35.3062	61.2874	73.4434	.0001	18.2636
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.2600	.8619	1.3532	1.6395	34.3732	60.3547	70.4369	.0001	17.9897
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.3100	.8639	1.4178	1.6983	33.4042	59.4612	67.4304	.0001	17.7157
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.3600	.8631	1.4834	1.7569	32.4004	58.6074	64.4240	.0001	17.4417
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.4100	.8594	1.5502	1.8154	31.3619	57.7946	61.4175	.0001	17.1676
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.4600	.8527	1.6181	1.8739	30.2880	57.0253	58.4110	.0001	16.8934
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.5100	.8431	1.6873	1.9325	29.1773	56.3036	55.4045	.0001	16.6191
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.5600	.8304	1.7577	1.9912	28.0273	55.6348	52.3981	.0001	16.3447
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.6100	.8145	1.8295	2.0503	26.8348	55.0269	49.3916	.0001	16.0701
11.0	3.1875	1.7506	1.32	.4551	2.1974	1.6600	.7952	1.9026	2.1097	25.5951	54.4904	46.3851	.0001	15.7954
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11.0	3.1875	1.7506	1.32	.4551	2.1974	1.8100	.7138	2.1310	2.2907	21.5236	53.4911	37.3657	.0001	14.9700
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11.0	3.1875	1.7506	1.40	.4997	2.0012	.7500	.5565	.7453	.9280	36.5757	74.0249	98.3698	.0000	23.6401
11.0	3.1875	1.7506	1.40	.4997	2.0012	.8000	.5971	.7999	.9981	36.7388	72.5004	95.1811	.0000	23.3498
11.0	3.1875	1.7506	1.40	.4997	2.0012	.8500	.6313	.8552	1.0652	36.5994	71.1020	91.9924	.0000	23.0594
11.0	3.1875	1.7506	1.40	.4997	2.0012	.9000	.6598	.9113	1.1299	36.2473	69.8057	88.8037	.0000	22.7690
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11.0	3.1875	1.7506	1.40	.4997	2.0012	1.0500	.7185	1.0841	1.3136	34.3851	66.3920	79.2377	.0000	21.8976
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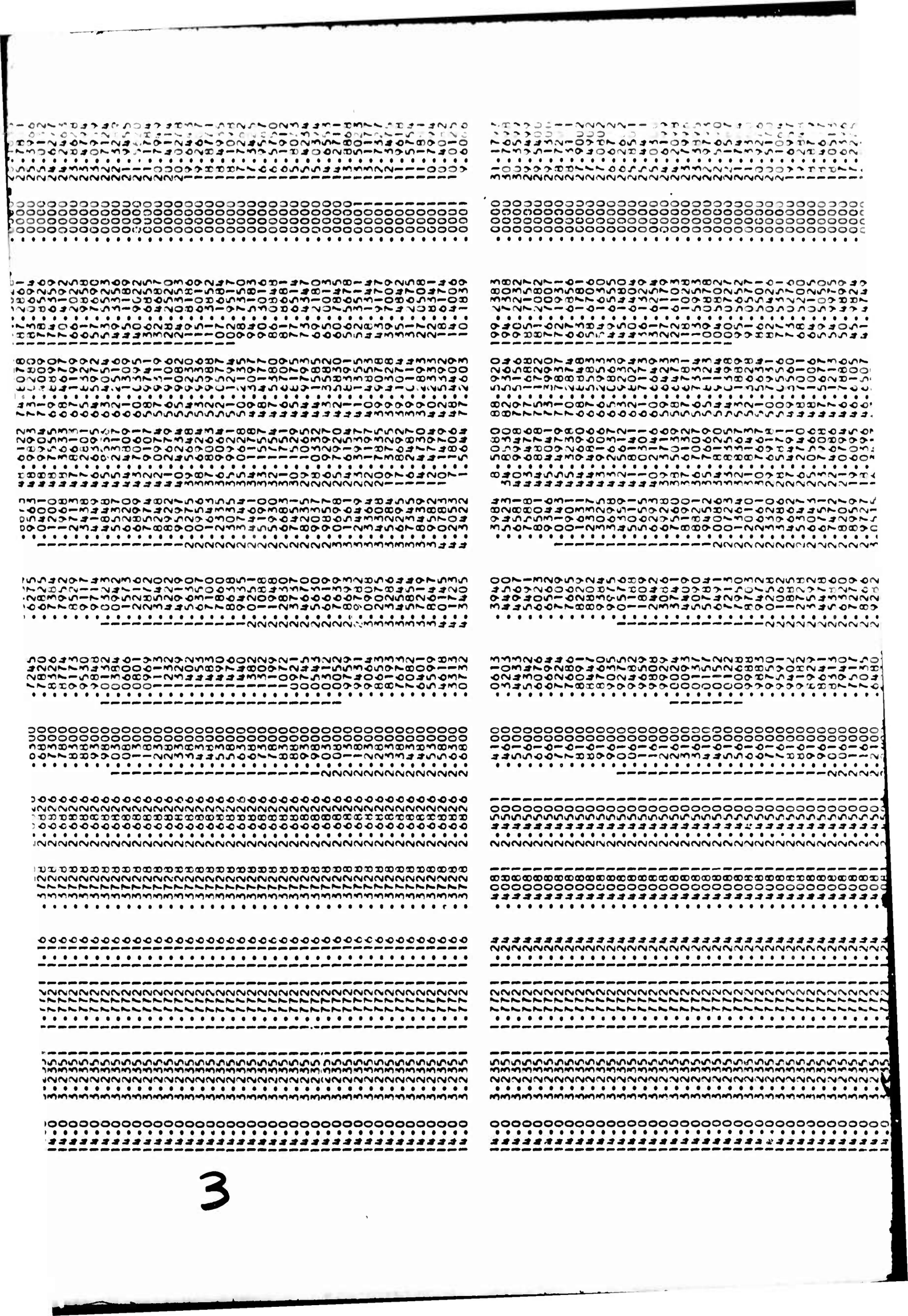
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11.0	3.1875	1.7506	1.56	.6130	1.6314	.6700	.2329	.6540	.6923	19.1667	82.9462	98.5884	.0000	30.4220
11.0	3.1875	1.7506	1.56	.6130	1.6314	.7200	.3105	.7065	.7694	23.3315	80.3794	95.0353	.0000	30.0982
11.0	3.1875	1.7506	1.56	.6130	1.6314	.7700	.3656	.7597	.8410	25.3990	78.4062	91.4822	.0000	29.7744
11.0	3.1875	1.7506	1.56	.6130	1.6314	.8200	.4073	.8135	.9083	26.4155	76.7662	87.9291	.0000	29.4506
11.0	3.1875	1.7506	1.56	.6130	1.6314	.8700	.4395	.8678	.9723	26.8035	75.3557	84.3760	.0000	29.1266
11.0	3.1875	1.7506	1.56	.6130	1.6314	.9200	.4642	.9229	1.0337	26.7745	74.1225	80.8229	.0000	28.8026
11.0	3.1875	1.7506	1.56	.6130	1.6314	.9700	.4825	.9785	1.0929	26.4478	73.0386	77.2698	.0000	28.4785
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.0200	.4952	1.0349	1.1504	25.8950	72.0888	73.7167	.0000	28.1542
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.0700	.5026	1.0919	1.2064	25.1606	71.2669	70.1636	.0000	27.8299
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.1200	.5050	1.1497	1.2612	24.2724	70.5737	66.6105	.0000	27.5054
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.1700	.5026	1.2081	1.3149	23.2465	70.0162	63.0574	.0000	27.1808
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.2200	.4952	1.2674	1.3678	22.0907	69.6087	59.5043	.0000	26.8559
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.2700	.4825	1.3274	1.4200	20.8047	69.3745	55.9512	.0000	26.5308
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.3200	.4643	1.3882	1.4716	19.3807	69.3493	52.3981	.0000	26.2054
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.3700	.4399	1.4498	1.5227	17.8011	69.5880	48.8450	.0000	25.8797
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.4200	.4081	1.5123	1.5735	16.0337	70.1770	45.2919	.0000	25.5536
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.4700	.3671	1.5756	1.6240	14.0206	71.2612	41.7388	.0000	25.2269
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.5200	.3134	1.6399	1.6744	11.6485	73.1107	38.1857	.0000	24.8996
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.5700	.2386	1.7051	1.7247	8.6424	76.3426	34.6326	.0000	24.5714
11.0	3.1875	1.7506	1.56	.6130	1.6314	1.6200	.1054	1.7713	1.7751	3.7222	83.5489	31.0795	.0000	24.2419
11.0	3.1875	1.7506	1.64	.6940	1.4409	.7000	.0662	.6829	.6860	5.4029	87.8807	93.9056	.0000	33.6502
11.0	3.1875	1.7506	1.64	.6940	1.4409	.7500	.1955	.7355	.7600	14.6085	83.5865	90.1703	.0000	33.3096
11.0	3.1875	1.7506	1.64	.6940	1.4409	.8000	.2590	.7885	.8288	17.9378	81.2829	86.4350	.0000	32.9670
11.0	3.1875	1.7506	1.64	.6940	1.4409	.8500	.3016	.8422	.8936	19.5352	79.5740	82.6997	.0000	32.6232
11.0	3.1875	1.7506	1.64	.6940	1.4409	.9000	.3315	.8964	.9553	20.2193	78.2169	78.9644	.0000	32.2783
11.0	3.1875	1.7506	1.64	.6940	1.4409	.9500	.3519	.9513	1.0144	20.3263	77.1204	75.2290	.0000	31.9465
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.0000	.3645	1.0067	1.0715	20.0261	76.2456	71.4937	.0000	31.6052
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.0500	.3700	1.0628	1.1269	19.4124	75.5800	67.7584	.0000	31.2618
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.1000	.3688	1.1195	1.1808	18.5367	75.1291	64.0231	.0000	30.9223
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.1500	.3609	1.1770	1.2335	17.4230	74.9161	60.2878	.0000	30.5805
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.2000	.3457	1.2351	1.2853	16.0728	74.9855	56.5525	.0000	30.2384
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.2500	.3224	1.2939	1.3362	14.4627	75.4148	52.8172	.0000	29.8960
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.3000	.2889	1.3534	1.3864	12.5308	76.3419	49.0818	.0000	29.5532
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.3500	.2412	1.4137	1.4361	10.1312	78.0424	45.3465	.0000	29.2098
11.0	3.1875	1.7506	1.64	.6940	1.4409	1.4000	.1677	1.4748	1.4853	6.8295	81.2473	41.6112	.0000	28.8657
11.0	3.1875	1.7506	1.72	.8283	1.2073	.8300	.0254	.8174	.8178	1.7543	89.0900	81.1691	.0000	36.3296
11.0	3.1875	1.7506	1.72	.8283	1.2073	.8800	.1292	.8709	.8803	8.3534	85.2360	77.4516	.0000	35.9679
11.0	3.1875	1.7506	1.72	.8283	1.2073	.9300	.1667	.9251	.9398	10.1636	83.6596	73.7340	.0000	35.6059
11.0	3.1875	1.7506	1.72	.8283	1.2073	.9800	.1843	.9797	.9969	10.6489	82.7599	69.4165	.0000	35.2517
11.0	3.1875	1.7506	1.72	.8283	1.2073	1.0300	.1876	1.0350	1.0520	10.3207	82.3717	65.4990	.0000	34.8933
11.0	3.1875	1.7506	1.72	.8283	1.2073	1.0800	.1775	1.0908	1.1055	9.3309	82.5141	61.5815	.0000	34.5347
11.0	3.1875	1.7506	1.72	.8283	1.2073	1.1300	.1513	1.1473	1.1576	7.6270	83.3632	57.6640	.0000	34.1756
11.0	3.1875	1.7506	1.72	.8283	1.2073	1.1800	.0971	1.2044	1.2085	4.7028	85.5611	53.7464	.0000	33.8162

PROPERTIES ACROSS AN OBLIQUE DETONATION WAVE

GAMMA = 1.2

M1	M1*	DELMAX	DEL	XMIN	XMAX	X(M2U*)	Y(M2V*)	M2U	M2	THETA	SIGMA	PR21	PTR21	TR21
14.0	3.2351	1.7721	1.00	.3091	3.2351	.3100	.0510	.2969	.3009	9.3371	89.0017	213.6624	.0000	20.4152
14.0	3.2351	1.7721	1.00	.3091	3.2351	.3600	.3815	.3476	.5065	46.6629	82.4411	210.0273	.0000	20.0847
14.0	3.2351	1.7721	1.00	.3091	3.2351	.4100	.5325	.3992	.6543	52.4041	79.3262	206.3922	.0000	19.7542
14.0	3.2351	1.7721	1.00	.3091	3.2351	.4600	.6454	.4517	.7782	54.5196	76.9084	202.7571	.0000	19.4238
14.0	3.2351	1.7721	1.00	.3091	3.2351	.5100	.7379	.5051	.8883	55.3408	74.8495	199.1220	.0000	19.0933
14.0	3.2351	1.7721	1.00	.3091	3.2351	.5600	.8170	.5595	.9895	55.5707	73.0178	195.4869	.0000	18.7628
14.0	3.2351	1.7721	1.00	.3091	3.2351	.6100	.8862	.6149	1.0844	55.4598	71.3457	191.8518	.0000	18.4323
14.0	3.2351	1.7721	1.00	.3091	3.2351	.6600	.9478	.6713	1.1748	55.1491	69.7930	188.2167	.0000	18.1019
14.0	3.2351	1.7721	1.00	.3091	3.2351	.7100	1.0032	.7288	1.2616	54.7105	68.3336	184.5816	.0000	17.7714
14.0	3.2351	1.7721	1.00	.3091	3.2351	.7600	1.0532	.7875	1.3458	54.1861	66.9490	180.9465	.0000	17.4409
14.0	3.2351	1.7721	1.00	.3091	3.2351	.8100	1.0988	.8474	1.4281	53.6024	65.6261	177.3114	.0000	17.1104
14.0	3.2351	1.7721	1.00	.3091	3.2351	.8600	1.1403	.9085	1.5088	52.9762	64.3548	173.6763	.0000	16.7800
14.0	3.2351	1.7721	1.00	.3091	3.2351	.9100	1.1782	.9710	1.5885	52.3191	63.1272	170.0412	.0000	16.4495
14.0	3.2351	1.7721	1.00	.3091	3.2351	.9600	1.2129	1.0348	1.6673	51.6390	61.9371	166.4060	.0000	16.1190
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.0100	1.2446	1.1000	1.7457	50.9414	60.7792	162.7709	.0000	15.7885
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.0600	1.2736	1.1667	1.8238	50.2302	59.6495	159.1358	.0000	15.4581
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.1100	1.3000	1.2350	1.9020	49.5083	58.5442	155.5007	.0000	15.1276
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.1600	1.3240	1.3050	1.9803	48.7778	57.4603	151.8656	.0000	14.7971
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.2100	1.3457	1.3767	2.0590	48.0401	56.3952	148.2305	.0000	14.4666
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.2600	1.3653	1.4502	2.1384	47.2963	55.3465	144.5954	.0000	14.1362
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.3100	1.3827	1.5257	2.2184	46.5472	54.3120	140.9603	.0000	13.8057
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.3600	1.3982	1.6033	2.2994	45.7931	53.2901	137.3252	.0000	13.4752
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.4100	1.4117	1.6830	2.3815	45.0344	52.2788	133.6901	.0000	13.1447
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.4600	1.4233	1.7650	2.4649	44.2713	51.2768	130.0550	.0000	12.8142
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.5100	1.4331	1.8494	2.5498	43.5036	50.2825	126.4199	.0000	12.4837
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.5600	1.4411	1.9365	2.6363	42.7314	49.2946	122.7848	.0000	12.1533
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.6100	1.4473	2.0263	2.7247	41.9544	48.3118	119.1497	.0000	11.8228
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.6600	1.4518	2.1191	2.8151	41.1724	47.3329	115.5146	.0001	11.4923
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.7100	1.4546	2.2150	2.9079	40.3850	46.3568	111.8795	.0001	11.1618
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.7600	1.4556	2.3142	3.0032	39.5918	45.3822	108.2444	.0001	10.8313
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.8100	1.4549	2.4172	3.1012	38.7923	44.4081	104.6093	.0001	10.5008
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.8600	1.4525	2.5240	3.2023	37.9861	43.4333	100.9742	.0001	10.1703
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.9100	1.4483	2.6350	3.3069	37.1724	42.4566	97.3391	.0001	9.8398
14.0	3.2351	1.7721	1.00	.3091	3.2351	1.9600	1.4424	2.7505	3.4151	36.3506	41.4770	93.7040	.0001	9.5093
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.0100	1.4348	2.8710	3.5275	35.5200	40.4932	90.0689	.0002	9.1788
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.0600	1.4253	2.9969	3.6443	34.6797	39.5041	86.4338	.0002	8.8483
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.1100	1.4141	3.1286	3.7662	33.8288	38.5082	82.7987	.0002	8.5178
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.1600	1.4009	3.2668	3.8937	32.9662	37.5043	79.1636	.0003	8.1873
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.2100	1.3858	3.4120	4.0273	32.0908	36.4909	75.5285	.0003	7.8568
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.2600	1.3688	3.5650	4.1678	31.2012	35.4664	71.8934	.0004	7.5262
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.3100	1.3496	3.7266	4.3160	30.2960	34.4291	68.2583	.0005	7.1957
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.3600	1.3284	3.8978	4.4729	29.3735	33.3770	64.6232	.0006	6.8652
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.4100	1.3048	4.0798	4.6394	28.4318	32.3080	60.9881	.0008	6.5346
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.4600	1.2789	4.2740	4.8171	27.4686	31.2198	57.3530	.0010	6.2041
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.5100	1.2504	4.4819	5.0073	26.4814	30.1095	53.7179	.0013	5.8736
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.5600	1.2193	4.7055	5.2120	25.4672	28.9740	50.0828	.0017	5.5429
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.6100	1.1852	4.9472	5.4334	24.4222	27.8096	46.4477	.0023	5.2123
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.6600	1.1479	5.2100	5.6744	23.3422	26.6119	42.8126	.0032	4.8817
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.7100	1.1071	5.4973	5.9384	22.2218	25.3754	39.1775	.0044	4.5510
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.7600	1.0625	5.8140	6.2299	21.0542	24.0938	35.5424	.0063	4.2203
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.8100	1.0134	6.1658	6.5545	19.8310	22.7585	31.9073	.0092	3.8896
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.8600	.9592	6.5608	6.9199	18.5409	21.3591	28.2722	.0139	3.5588
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.9100	.8991	7.0093	7.3362	17.1688	19.8813	24.6371	.0218	3.2278
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.9600	.8316	7.5262	7.8176	15.6930	18.3055	21.0020	.0355	2.8967
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.0100	.7550	8.1326	8.3845	14.0812	16.6031	17.3669	.0609	2.5654
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.0600	.6661	8.8605	9.0681	12.2810	14.7296	13.7318	.1106	2.2336
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.1100	.5594	9.7619	9.9185	10.1968	12.6080	10.0967	.2141	1.9004
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.1600	.4225	10.9298	11.0271	7.6155	10.4820	6.4616	.4391	1.5634
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.2100	.2136	12.5880	12.6158	3.8070	6.7080	2.8265	.8666	1.2178
14.0	3.2351	1.7721	1.08	.3399	2.9418	.3400	.0132	.3259	.3261	2.2295	89.7265	209.5038	.0000	23.7749
14.0	3.2351	1.7721	1.08	.3399	2.9418	.3900	.3565	.3767	.5103	42.4295	82.5414	205.5778	.0000	23.4112
14.0	3.2351	1.7721	1.08	.3399	2.9418	.4400	.4990	.4282	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

14.0	3.2351	1.7721	1.00	.3091	3.2351	2.7100	1.1071	5.4973	5.9384	22.2218	25.3754	39.1775	.0032	4.8811
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.7600	1.0625	5.8140	6.2299	21.0542	24.0938	35.5424	.0043	4.5510
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.8100	1.0134	6.1658	6.5545	19.8310	22.7585	31.9073	.0063	4.2283
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.8600	.9592	6.5608	6.9199	18.5409	21.3592	28.2722	.0092	3.8896
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.9100	.8991	7.0093	7.3362	17.1688	19.8813	24.6371	.0139	3.5588
14.0	3.2351	1.7721	1.00	.3091	3.2351	2.9600	.8316	7.5262	7.8176	15.6930	18.3055	21.0020	.0218	3.2278
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.0100	.7550	8.1326	8.3845	14.0812	16.6031	17.3669	.0355	2.8967
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.0600	.6661	8.8605	9.0681	12.2810	14.7296	13.7318	.0609	2.5654
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.1100	.5594	9.7619	9.9185	10.1968	12.6080	10.0967	.1106	2.2336
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.1600	.4225	10.9298	11.0271	7.6155	10.0820	6.4616	.2141	1.9008
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.2100	.2136	12.5880	12.6158	3.8070	6.7080	2.8265	.4391	1.5694
14.0	3.2351	1.7721	1.00	.3091	3.2351	3.2600	.0000	14.9568	14.9568	.0000	3.3534	.0000	.8666	1.2378
14.0	3.2351	1.7721	1.08	.3399	2.9418	.3400	.0132	.3259	.3261	2.2295	89.7265	209.5038	.0000	23.7749
14.0	3.2351	1.7721	1.08	.3399	2.9418	.3900	.3565	.3767	.5103	42.4295	82.5414	205.5779	.0000	23.4180
14.0	3.2351	1.7721	1.08	.3399	2.9418	.4400	.4990	.4282	.6475	48.5948	79.4259	201.6520	.0000	23.0611
14.0	3.2351	1.7721	1.08	.3399	2.9418	.4900	.6049	.4806	.7636	50.9907	77.0139	197.7261	.0000	22.7041
14.0	3.2351	1.7721	1.08	.3399	2.9418	.5400	.6912	.5339	.8672	52.0029	74.9625	193.8002	.0000	22.3472
14.0	3.2351	1.7721	1.08	.3399	2.9418	.5900	.7647	.5880	.9626	52.3472	73.1390	189.8743	.0000	21.9902
14.0	3.2351	1.7721	1.08	.3399	2.9418	.6400	.8286	.6431	1.0521	52.3191	71.4754	185.9484	.0000	21.6333
14.0	3.2351	1.7721	1.08	.3399	2.9418	.6900	.8852	.6991	1.1372	52.0636	69.9315	182.0224	.0000	21.2763
14.0	3.2351	1.7721	1.08	.3399	2.9418	.7400	.9357	.7562	1.2190	51.6601	68.4810	178.0965	.0000	20.9194
14.0	3.2351	1.7721	1.08	.3399	2.9418	.7900	.9810	.8142	1.2982	51.1557	67.1056	174.1706	.0000	20.5624
14.0	3.2351	1.7721	1.08	.3399	2.9418	.8400	1.0219	.8734	1.3754	50.5800	65.7921	170.2447	.0000	20.2055
14.0	3.2351	1.7721	1.08	.3399	2.9418	.8900	1.0589	.9337	1.4511	49.9524	64.5304	166.3188	.0000	19.8485
14.0	3.2351	1.7721	1.08	.3399	2.9418	.9400	1.0923	.9951	1.5256	49.2858	63.3127	162.3929	.0000	19.4915
14.0	3.2351	1.7721	1.08	.3399	2.9418	.9900	1.1225	1.0578	1.5992	48.5895	62.1327	158.4670	.0000	19.1346
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.0400	1.1498	1.1217	1.6721	47.8698	60.9855	154.5411	.0000	18.7776
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.0900	1.1743	1.1870	1.7447	47.1312	59.8667	150.6152	.0000	18.4206
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.1400	1.1962	1.2536	1.8171	46.3773	58.7729	146.6893	.0000	18.0637
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.1900	1.2156	1.3217	1.8894	45.6103	57.7010	142.7633	.0000	17.7067
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.2400	1.2328	1.3914	1.9619	44.8320	56.6483	138.8374	.0000	17.3497
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.2900	1.2476	1.4626	2.0347	44.0437	55.6127	134.9115	.0000	16.9927
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.3400	1.2604	1.5355	2.1080	43.2461	54.5921	130.9856	.0000	16.6357
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.3900	1.2710	1.6101	2.1818	42.4398	53.5847	127.0597	.0000	16.2787
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.4400	1.2796	1.6867	2.2564	41.6250	52.5890	123.1338	.0000	15.9217
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.4900	1.2862	1.7651	2.3318	40.8019	51.6034	119.2079	.0000	15.5647
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.5400	1.2909	1.8457	2.4083	39.9703	50.6266	115.2820	.0000	15.2076
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.5900	1.2935	1.9284	2.4859	39.1301	49.6575	111.3561	.0000	14.8506
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.6400	1.2943	2.0133	2.5648	38.2807	48.6948	107.4302	.0000	14.4936
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.6900	1.2931	2.1008	2.6452	37.4218	47.7376	103.5043	.0000	14.1365
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.7400	1.2900	2.1908	2.7272	36.5528	46.7849	99.5783	.0000	13.7795
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.7900	1.2850	2.2835	2.8109	35.6727	45.8358	95.6524	.0000	13.4224
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.8400	1.2779	2.3791	2.8967	34.7808	44.8895	91.7265	.0000	13.0653
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.8900	1.2689	2.4779	2.9845	33.8761	43.9451	87.8006	.0001	12.7082
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.9400	1.2578	2.5799	3.0748	32.9574	43.0020	83.8747	.0001	12.3510
14.0	3.2351	1.7721	1.08	.3399	2.9418	1.9900	1.2446	2.6856	3.1676	32.0233	42.0595	79.9488	.0001	11.9939
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.0400	1.2293	2.7950	3.2632	31.0723	41.1171	76.0229	.0001	11.6367
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.0900	1.2117	2.9085	3.3619	30.1026	40.1743	72.0970	.0001	11.2795
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.1400	1.1917	3.0263	3.4640	29.1122	39.2308	68.1711	.0001	10.9223
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.1900	1.1693	3.1490	3.5697	28.0987	38.2865	64.2452	.0001	10.5650
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.2400	1.1443	3.2768	3.6795	27.0592	37.3415	60.3192	.0001	10.2076
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.2900	1.1164	3.4101	3.7938	25.9905	36.3963	56.3933	.0002	9.8502
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.3400	1.0856	3.5496	3.9130	24.8886	35.4520	52.4674	.0002	9.4928
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.3900	1.0516	3.6957	4.0376	23.7487	34.5104	48.5415	.0002	9.1352
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.4400	1.0139	3.8491	4.1682	22.5648	33.5747	44.6156	.0002	8.7775
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.4900	.9723	4.0106	4.3055	21.3294	32.6500	40.6897	.0003	8.4197
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.5400	.9261	4.1810	4.4503	20.0330	31.7448	36.7638	.0003	8.0617
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.5900	.8748	4.3613	4.6034	18.6629	30.8732	32.8379	.0004	7.7036
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.6400	.8173	4.5528	4.7660	17.2015	30.0596	28.9120	.0005	7.3447
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.6900	.7523	4.7568	4.9393	15.6240	29.3487	24.9861	.0005	6.9855
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.7400	.6777	4.9751	5.1250	13.8923	28.8282	21.0601	.0006	6.6254
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.7900	.5902	5.2101	5.3253	11.9436	28.6925	17.1342	.0007	6.2639
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.8400	.4833	5.4647	5.5433	9.6571	29.4624	13.2083	.0008	5.8996
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.8900	.3415	5.7442	5.7842	6.7395	33.1430	9.2824	.0008	5.5292
14.0	3.2351	1.7721	1.08	.3399	2.9418	2.9400	.0605	6.0612	6.0625	1.1795	70.7148	5.3565	.0007	5.1372
14.0	3.2351	1.7721	1.16	.3728	2.6826	.3800	.1287	.3650	.3853	18.7043	87.1928	204.1529	.0000	27.3158
14.0	3.2351	1.7721	1.16	.3728	2.6826	.4300	.3581	.4160	.5413	39.7840	82.0799	199.9362	.0000	26.9304
14.0	3.2351	1.7721	1.16	.3728	2.6826	.4800	.4846	.4677	.6646	45.2748	79.1300	195.7195	.0000	26.5449
14.0	3.2351	1.7721	1.16	.3728	2.6826	.5300	.5801	.5201	.7711	47.5882	76.8024	191.5028	.0000	26.1595
14.0	3.2351	1.7721	1.16	.3728	2.6826	.5800	.6582	.5734	.8673	48.6122	74.8078	187.2861	.0000	25.7741
14.0	3.2351	1.7721	1.16	.3728	2.6826	.6300	.7245	.6275	.9563	48.9893	73.0280	183.0694	.0000	25.3886
14.0	3.2351	1.7721	1.16	.3728	2.6826	.6800	.7820	.6825	1.0401	48.9904	71.4009	178.8526	.0000	25.0032
14.0	3.2351	1.7721	1.16	.3728	2.6826	.7300	.8326	.7384	1.1200	48.7555	69.8890	174.6359	.0000	24.6177
14.0	3.2351	1.7721	1.16	.3728	2.6826	.7800	.8774	.7952	1.1968	48.3633	68.4677	170.4192	.0000	24.2323
14.0	3.2351	1.7721	1.16	.3728	2.6826	.8300	.9173	.8529	1.2713	47.8613	67.1199	166.2025	.0000	23.8468
14.0	3.2351	1.7721	1.16	.3728	2.6826	.8800	.9530	.9117	1.3438	47.2801	65.8329	161.9858	.0000	23.4614
14.0	3.2351	1.7721	1.16	.3728	2.6826	.9300	.9848	.9714	1.4149	46.6395	64.5972	157.7690	.0000	23.0759
14.0	3.2351	1.7721	1.16	.3728	2.6826	.9800	1.0132	1.0323	1.4848	45.9556	63.4054	153.5523	.0000	22.6904
14.0	3.2351	1.7721	1.16	.3728	2.6826	1.0300	1.0384	1.0942	1.5537	45.2313	62.2514	149.3356	.0000	22.3050



14.0	3.2351	1.7721	1.40	.4898	2.0418	1.4400	.7516	1.5745	1.7764	27.5624	59.6531	.0000	30.8411
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.4900	.7381	1.6419	1.8324	26.3538	59.3202	84.5436	.0000	30.2271
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.5400	.7210	1.7102	1.8884	25.0878	58.8784	79.4544	.0000	29.7624
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.5900	.6999	1.7797	1.9445	23.7583	58.5460	74.3653	.0000	29.2985
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.6400	.6745	1.8504	2.0008	22.3563	58.3487	69.2761	.0000	28.8358
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.6900	.6443	1.9223	2.0573	20.8690	58.3237	64.1870	.0000	28.3648
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.7400	.6086	1.9957	2.1142	19.2789	58.5258	59.0979	.0000	27.9014
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.7900	.5664	2.0704	2.1715	17.5597	59.0395	54.0087	.0000	27.4375
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.8400	.5162	2.1465	2.2294	15.6712	60.0025	48.9196	.0000	26.9709
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.8900	.4553	2.2242	2.2878	13.5455	61.6584	43.8304	.0000	26.5044
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.9400	.3789	2.3035	2.3470	11.0504	64.4962	38.7413	.0000	26.0347
14.0	3.2351	1.7721	1.40	.4898	2.0418	1.9900	.2743	2.3845	2.4071	7.8489	69.7645	33.6521	.0000	25.5640
14.0	3.2351	1.7721	1.40	.4898	2.0418	2.0400	.0524	2.4674	2.4682	1.4701	85.6870	28.5630	.0000	25.0905

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14.0	3.2351	1.7721	1.48	.5388	1.8559	.5400	.0394	.5219	.5233	4.1772	88.9339	178.0965	.0000	43.9147
14.0	3.2351	1.7721	1.48	.5388	1.8559	.5900	.2538	.5734	.6242	23.2725	83.0086	172.7166	.0000	43.4362
14.0	3.2351	1.7721	1.48	.5388	1.8559	.6400	.3496	.6255	.7128	28.6474	80.1769	167.3366	.0000	42.9486
14.0	3.2351	1.7721	1.48	.5388	1.8559	.6900	.4184	.6783	.7932	31.2340	78.0039	161.9567	.0000	42.4510
14.0	3.2351	1.7721	1.48	.5388	1.8559	.7400	.4722	.7317	.8679	32.5411	76.1785	156.5767	.0000	41.9614
14.0	3.2351	1.7721	1.48	.5388	1.8559	.7900	.5156	.7857	.9382	33.1298	74.5801	151.1968	.0000	41.4718
14.0	3.2351	1.7721	1.48	.5388	1.8559	.8400	.5511	.8404	1.0051	33.2674	73.1473	145.8168	.0000	40.9821
14.0	3.2351	1.7721	1.48	.5388	1.8559	.8900	.5802	.8958	1.0693	33.0993	71.8449	140.4369	.0000	40.4925
14.0	3.2351	1.7721	1.48	.5388	1.8559	.9400	.6037	.9519	1.1313	32.7116	70.6507	135.0569	.0000	40.0025
14.0	3.2351	1.7721	1.48	.5388	1.8559	.9900	.6224	1.0087	1.1915	32.1583	69.5506	129.6770	.0000	39.5127
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.0400	.6367	1.0663	1.2502	31.4744	68.5358	124.2970	.0000	39.0227
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.0900	.6468	1.1246	1.3077	30.6834	67.6011	118.9171	.0000	38.5327
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.1400	.6529	1.1838	1.3642	29.8007	66.7443	113.5371	.0000	38.0426
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.1900	.6552	1.2437	1.4198	28.8365	65.9661	108.1572	.0000	37.5524
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.2400	.6537	1.3045	1.4747	27.7968	65.2699	102.7772	.0000	37.0621
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.2900	.6484	1.3662	1.5291	26.6843	64.6619	97.3973	.0000	36.5717
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.3400	.6391	1.4288	1.5830	25.4989	64.1520	92.0173	.0000	36.0811
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.3900	.6258	1.4923	1.6365	24.2377	63.7550	86.6374	.0000	35.5903
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.4400	.6081	1.5567	1.6899	22.8947	63.4916	81.2574	.0000	35.0993
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.4900	.5857	1.6222	1.7430	21.4602	63.3918	75.8775	.0000	34.6080
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.5400	.5581	1.6886	1.7961	19.9192	63.4994	70.4975	.0000	34.1164
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.5900	.5243	1.7562	1.8492	18.2494	63.6800	65.1176	.0000	33.6244
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.6400	.4832	1.8248	1.9024	16.4158	64.6370	59.7376	.0000	33.1318
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.6900	.4327	1.8946	1.9557	14.3602	65.9445	54.3577	.0000	32.6386
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.7400	.3690	1.9656	2.0093	11.9736	68.1283	48.9777	.0000	32.1444
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.7900	.2836	2.0378	2.0633	9.0036	71.9294	43.5978	.0000	31.6490
14.0	3.2351	1.7721	1.48	.5388	1.8559	1.8400	.1419	2.1114	2.1177	4.4114	80.1702	38.2178	.0000	31.1518

14.0	3.2351	1.7721	1.56	.5971	1.6749	.6000	.0561	.5818	.5843	5.3397	88.3860	168.1509	.0000	48.4771
14.0	3.2351	1.7721	1.56	.5971	1.6749	.6500	.2322	.6336	.6728	19.6552	83.1765	162.4801	.0000	47.9610
14.0	3.2351	1.7721	1.56	.5971	1.6749	.7000	.3157	.6861	.7526	24.2749	80.5181	156.8094	.0000	47.4448
14.0	3.2351	1.7721	1.56	.5971	1.6749	.7500	.3747	.7391	.8262	26.5497	78.4892	151.1386	.0000	46.9285
14.0	3.2351	1.7721	1.56	.5971	1.6749	.8000	.4198	.7927	.8953	27.6877	76.6028	145.4679	.0000	46.4122
14.0	3.2351	1.7721	1.56	.5971	1.6749	.8500	.4550	.8470	.9607	28.1598	75.3471	139.7971	.0000	45.8959
14.0	3.2351	1.7721	1.56	.5971	1.6749	.9000	.4825	.9019	1.0234	28.1980	74.0663	134.1263	.0000	45.3794
14.0	3.2351	1.7721	1.56	.5971	1.6749	.9500	.5037	.9575	1.0838	27.9312	72.9295	128.4556	.0000	44.8629
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.0000	.5192	1.0138	1.1422	27.4366	71.9191	122.7848	.0000	44.3463
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.0500	.5295	1.0707	1.1992	26.7626	71.0263	117.1141	.0000	43.8296
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.1000	.5351	1.1284	1.2548	25.9399	70.2483	111.4433	.0000	43.3128
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.1500	.5360	1.1867	1.3093	24.9876	69.5876	105.7726	.0000	42.7958
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.2000	.5322	1.2459	1.3629	23.9164	69.0525	100.1018	.0000	42.2787
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.2500	.5237	1.3058	1.4158	22.7304	68.6572	94.4310	.0000	41.7615
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.3000	.5102	1.3666	1.4680	21.4276	68.4242	88.7603	.0000	41.2443
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.3500	.4913	1.4281	1.5197	19.9992	68.3872	83.0895	.0000	40.7269
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.4000	.4665	1.4905	1.5711	18.4284	68.5972	77.4188	.0000	40.2094
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.4500	.4346	1.5538	1.6221	16.6859	69.1333	71.7480	.0000	39.6892
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.5000	.3941	1.6180	1.6729	14.7206	70.1252	66.0772	.0000	39.1700
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.5500	.3419	1.6831	1.7236	12.4376	71.6068	60.4065	.0000	38.6502
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.6000	.2713	1.7492	1.7742	9.6243	74.0765	54.7357	.0000	38.1295
14.0	3.2351	1.7721	1.56	.5971	1.6749	1.6500	.1601	1.8164	1.8249	5.5411	80.3375	49.0650	.0000	37.6077

14.0	3.2351	1.7721	1.64	.6712	1.4900	.6800	.0843	.6627	.6677	7.0679	87.3853	155.1227	.0000	53.0477
14.0	3.2351	1.7721	1.64	.6712	1.4900	.7300	.2107	.7150	.7442	16.0986	83.3102	149.1611	.0000	52.4980
14.0	3.2351	1.7721	1.64	.6712	1.4900	.7800	.2769	.7680	.8150	19.5459	80.9890	143.1996	.0000	51.9551
14.0	3.2351	1.7721	1.64	.6712	1.4900	.8300	.3225	.8215	.8814	21.2327	79.2355	137.2380	.0000	51.4120
14.0	3.2351	1.7721	1.64	.6712	1.4900	.8800	.3554	.8757	.9444	21.9932	77.8167	131.2764	.0000	50.8689
14.0	3.2351	1.7721	1.64	.6712	1.4900	.9300	.3790	.9304	1.0047	22.1747	76.6416	125.3149	.0000	50.3257
14.0	3.2351	1.7721	1.64	.6712	1.4900	.9800	.3950	.9858	1.0628	21.9544	75.6682	119.3533	.0000	49.7825
14.0	3.2351	1.7721	1.64	.6712	1.4900	1.0300	.4043	1.0418	1.1191	21.4315	74.8787	113.3917	.0000	49.2388
14.0	3.2351	1.7721	1.64	.6712	1.4900	1.0800	.4073	1.0984	1.1739	20.6636	74.2705	107.4302	.0000	48.6951
14.0	3.2351	1.7721	1.64	.6712	1.4900	1.1300	.4042	1.1557	1.2274	19.6826	73.8539	101.4686	.0000	48.1512
14.0	3.2351	1.7721	1.64	.6712	1.4900	1.1800	.3949	1.2137	1.2799	18.5018	73.6528	95.5070	.0000	47.6071
14.0	3.2351	1.7721	1.64	.6712	1.4900	1.2300	.3788	1.2725	1.3315	17.1180	73.7089	89.5455	.0000	47.0629
14.0	3.2351	1.7721	1.64	.6712	1.4900	1.2800	.3552	1.3319	1.3823	15.5080	74.0915	83.5839		