AD-A151 757 AN ATLAS OF PURE WATER VAPOR SPECTRA FROM 500 TO 5000/CM VOLUME 2..(U) OHIO STATE UNIV COLUMBUS ELECTROSCIENCE LAB R K LONG ET AL. SEP 84 1/5

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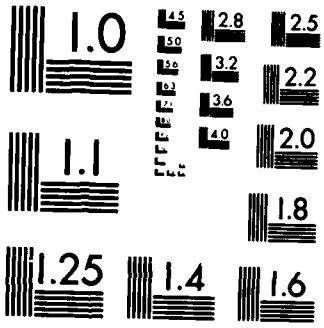

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The Ohio State University

AN ATLAS OF PURE WATER VAPOR SPECTRA FROM 500 TO 5000 cm^{-1}

R.K. Long
E.K. Damon

AD-A151 757

The Ohio State University

ElectroScience Laboratory

Department of Electrical Engineering
Columbus, Ohio 43212

September 1984

Technical Report 713774-3

Contract DAAG29-81-K-0084

VOLUME II

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

An Atlas of the pure H_2O absorption spectrum between 500 and 5000 cm^{-1} is presented. For each frequency, four spectra are presented, from top to bottom: 5 Torr @ 284 k; 10 Torr @ 294.3 k; 20 Torr @ 308 k; and 40 Torr @ 320 k. The path length is 821 meters. Tables of approximate line frequencies are also included.

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504.334	507.350		510.143
505.598	508.125		
507.924	510.047		
510.219	510.125		

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517.092			
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520.246			

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526.347	527.470		
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529.383	530.241		
529.580			
529.881			
530.132			

A	B	C	D
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10 558.792	10 557.988		
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	560.212		

951

	A		B	C	D
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	588.774		
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	590.239		

	A	B	C	D
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			730.204	730.200

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	A	B	C	D
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	A	B	C	D
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	685.457	685.458	685.458	683.953
	685.555	685.554	685.557	684.372
	685.969	685.968	685.969	685.222
	686.830	686.829	686.826	685.456
15	687.152	687.157	687.152	685.549
	687.572	687.567	688.075	685.975
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	690.225			689.221
				690.215

	A		B		C		D
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	671.139		671.134		671.679		672.496
	671.297		671.377		671.774		672.862
	671.360		671.676		671.885		673.326
	671.681		671.884		672.499		674.071
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	672.496		672.865		673.335		674.523
	672.866		673.272		674.072		674.825
	673.282		674.068		674.443		675.674
	674.076		674.444		674.529		676.023
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	674.524		674.827		675.676		676.542
	674.831		675.670		676.018		677.285
	675.685		676.023		676.413		677.599
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	677.289		677.288		677.743		679.192
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25	678.003	25	677.999	25	679.189		
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	A	B	C	D
	660.276	660.785	660.030	661.171
	660.794	661.166	661.167	662.590
	661.167	661.519	661.520	662.707
	661.513	662.592	662.714	663.096
5	661.861	662.708	663.064	663.456
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	669.067	669.607		
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25	669.608	670.122		
	669.726	670.212		
	669.808			
	670.003			
	670.117			
30	670.217			

	A	B	C	D
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5	651.787	652.252	651.935	652.267
	651.937	652.377	652.255	652.372
	652.259	653.256	652.369	652.772
	653.271	653.463	652.902	652.897
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10	653.793	654.750	653.461	653.455
	654.752	654.996	653.794	654.087
	654.996	655.326	654.752	654.749
	655.328	656.250	654.997	654.992
	655.538	656.529	655.330	655.862
15	656.256	656.870	656.245	656.531
	656.532	657.761	656.529	658.066
	656.875	658.069	656.868	660.032
	657.763	658.418	658.067	660.209
	658.072	658.690	658.422	
20	658.419	659.242	659.694	
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	659.478	660.162		
	659.612			
25	659.964			
	660.184			

A	B	C	D
640.296	640.287	641.337	641.336
641.340	641.337	641.643	642.303
641.644	641.621	642.257	642.839
642.238	642.231	642.837	644.606
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643.518	643.215	645.862	647.376
644.342	644.272	646.162	647.671
645.602	645.606	647.379	648.698
645.862	645.864	647.684	648.875
646.166	646.161	648.513	648.971
647.374	647.371	648.887	649.065
647.680	647.678	648.976	649.205
648.512	648.499	649.204	649.556
648.694	648.755	649.416	650.135
648.756	648.890	649.546	
648.896	648.976	650.138	
648.983	649.072		
649.082	649.207		
649.203	649.550		
649.418	650.134		
649.549			
649.683			
650.144			

	A		B		C		D
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	631.237		630.917		631.230		632.091
	631.550		631.233		632.394		633.712
	632.033		632.030		633.720		633.870
5	632.393	5	632.393	5	633.871	5	634.229
	632.775		632.777		635.192		637.090
	633.105		633.141		637.095		638.234
	633.578		633.575		638.242		639.423
	633.873		633.723		638.334		640.235
10	635.126	10	633.870	10	639.436		
	635.444		634.237		640.087		
	636.086		635.535				
	636.670		636.851				
	636.850		637.040				
15	637.035	15	638.087				
	637.627		638.335				
	638.078		638.846				
	638.338		639.433				
	639.170		640.031				
20	639.436						
	639.839						
	639.984						
	640.235						

A	B	C	D
620.565	620.610	626.334	620.451
623.593	621.061	627.960	625.763
624.262	625.404	629.441	627.944
625.316	626.287	629.708	629.439
5 625.827	5 627.963	5 630.161	5 629.712
626.322	628.929		629.983
627.966	629.441		630.191
628.929	629.711		
629.443	630.172		
10 629.713			
630.107			

A	B	C	D
610.178	610.170	610.175	610.159
610.992	612.403	612.518	611.980
612.411	612.535	612.640	613.016
612.539	612.631	613.042	614.199
5 612.940	5 612.986	5 614.205	5 614.622
614.199	614.199	614.588	616.629
614.581	614.579	617.383	617.139
616.138	616.211	617.630	617.916
617.115	617.095	617.956	618.163
10 617.359	10 617.354	10 618.174	10 619.225
617.563	617.628	619.204	620.240
617.631	617.991	619.526	
618.008	619.198	620.069	
619.200	619.526		
15 619.526	15 620.179		
620.170			

A	B	C	D
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601.570	602.119	602.118	602.713
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604.708	604.518	604.616	608.064
5 608.054	5 606.138	5 605.870	5 608.645
608.672	607.776	606.708	609.254
609.425	608.051	607.782	609.724
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		610.175	

	A		B		C		D
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	592.127		591.900		597.804		600.207
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5	594.091	5	594.486	5	598.026		
	594.972		594.919		599.002		
	596.285		595.536		600.254		
	596.827		595.787				
	597.335		596.284				
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			600.228				

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	730.545		730.202		730.204		730.200
	730.921		730.546		730.547		730.513
	731.649		730.934		730.979		730.966
5	733.186	5	731.648	5	731.649	5	731.650
	734.718		732.507		732.513		732.509
	736.242		733.176		733.185		733.179
	737.768		734.719		734.715		734.154
	739.286		734.983		734.979		734.716
10	740.239	10	736.237	10	735.149	10	734.979
			737.764		736.238		735.148
			739.276		737.765		736.244
			740.238		738.986		736.830
					739.287		737.765
				15	739.395	15	738.987
					740.063		739.403
							740.098

	A	B	C	D
	740.570	740.539	740.629	740.563
	740.808	742.073	741.706	740.681
	742.073	742.434	742.074	741.704
	742.437	743.345	742.214	742.072
5	743.347	743.822	742.469	742.215
	743.825	744.217	742.844	742.476
	744.215	744.843	742.987	742.836
	744.818	748.369	743.348	742.983
	745.335	750.255	743.824	743.350
10	748.358		744.241	744.215
	749.840		744.861	744.914
	750.165		745.334	746.835
			746.837	748.353
			748.393	750.247
15			750.238	

A	B	C	D
751.185	751.183	751.183	750.689
752.266	752.267	752.287	751.182
753.895	753.898	753.873	752.237
754.641	754.655	754.679	752.318
5 755.988	5 755.988	5 755.481	5 753.937
760.189	760.264	755.983	754.706
		760.156	755.477
			755.966
			760.161

	A	B	C	D
	760.428	760.426	760.425	760.427
	761.479	760.717	760.714	760.712
	767.267	761.479	761.478	761.931
	768.949	767.268	761.933	764.987
5	770.076	768.946	767.268	767.260
	770.166	770.075	768.945	768.937
		770.228	770.078	770.101

A	B	C	D
770.076	770.075	770.078	770.101
775.554	775.551	775.585	771.946
776.991	776.989	777.024	774.224
779.309	779.307	779.304	775.597
5 780.218	5 780.187	5 780.221	5 777.084
			779.342
			780.137

C01

A	B	C	D
784.460	784.467	783.762	783.209
790.228	790.222	784.535	783.761
		787.697	784.536
		790.168	785.586
			787.694
			790.196

A	B	C	D
792.041	792.042	792.041	792.045
793.910	793.906	793.937	793.285
795.894	795.920	795.327	793.981
797.557	797.559	795.948	795.977
5 798.555	5 798.534	5 796.691	5 797.589
798.759	798.768	797.551	798.839
799.067	799.067	798.811	799.077
800.223	800.252	799.076	800.093
		800.210	

A	B	C	D
802.996	802.993	802.982	803.026
803.548	803.536	803.575	803.604
805.995	805.994	805.993	805.990
808.039	806.691	806.698	806.699
5 808.281	5 808.037	5 808.040	5 808.054
810.056	808.282	808.278	808.301
	810.025	810.116	810.236

A	B	C	D
813.849	813.850	813.855	813.845
814.518	814.518	814.499	814.503
820.121	819.998	816.451	816.448
		820.219	820.135

A	B	C	D
825.167	825.163	825.163	822.664
827.117	827.117	827.116	825.161
827.678	827.675	827.741	827.119
827.746	827.743	830.183	827.675
5 830.148	5 830.153		5 830.196

A	B	C	D
835.553	835.551	835.551	832.628
839.877	839.874	838.048	834.825
840.010	840.009	839.645	835.554
840.117	840.123	839.869	838.048
		5 840.008	5 839.646
			839.880
			840.007

A	B	C	D
840.008	840.007	840.008	840.007
840.320	840.318	840.318	840.315
841.906	841.905	841.098	841.096
849.585	849.582	841.904	841.903
5 850.192	5 850.224	5 845.731	5 845.730
		849.570	849.600
		850.203	850.222

	A	B	C	D
	852.423	852.423	852.462	851.326
	852.487	852.480	852.753	852.452
	852.756	852.754	852.913	852.750
	852.911	852.909	853.378	852.919
5	853.382	853.381	853.814	853.378
	854.587	854.588	854.586	853.550
	858.542	858.541	858.541	853.815
	860.074	859.657	859.658	854.589
		860.191	859.917	858.540
10			860.180	859.656
				859.905
				860.222

A	B	C	D
864.959	864.959	864.958	864.958
865.448	865.444	865.446	865.444
869.997	865.685	865.684	865.683
	870.167	867.724	867.721
		5 867.995	5 867.992
		870.207	870.211

A	B	C	D
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[illegible]	[illegible]	1000.105	998.806
[illegible]	[illegible]	[illegible]	999.865

	B	C	D
	981.988	981.950	981.887
	982.138	982.138	982.177
	984.119	984.119	984.116
	987.320	987.320	987.300
5	990.120	987.421	967.568
	990.224	988.805	988.007
		990.145	990.152
		990.220	990.222

	A	B	C	D
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	970.195	965.354	962.17[illegible]
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		966.870	965.8[illegible]
		967.345	965.9[illegible]
		967.961	966.149
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			967.744
			967.976
			970.140

PAGE 47

	A	B	C	D
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	[illegible]	954.110	954.114	954.109
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	954.857	958.844	959.226	959.218
	960.200	959.228	959.654	959.653
		959.647	959.858	959.851
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		960.243		

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		948.263	[illegible]
		950.171	950.225

062

A	B	C	D
940.154	937.316	930.761	930.756
	938.027	932.273	931.775
	940.221	937.324	932.270
		938.023	937.317
		5 940.229	5 938.025
			940.230

061

	B	C	D
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	922.136	922.139	922.13[illegible]
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	924.996	925.477	925.471
5	925.9[illegible]	5 927.320	5 [illegible]
	928.681	928.684	928.681
	928.900	928.755	[illegible].758
	930.157	928.991	928.990
		930.210	929.607
			10 930.231

090

A	B	C	D
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5 920.192	5 920.221	5 913.983	5 913.981
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		918.475	918.472
		920.212	920.195

	B	C	D
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	906.232	905.432	905.[illegible]31
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5	[illegible]	5 906.753	5 906.[illegible]
	[illegible]	908.026	908.[illegible]
	910.101	906.955	906.979
		910.100	910.090

053

A	B	C	D
890.093	890.091	890.091	890.090
891.303	891.298	891.300	891.297
897.700	896.507	892.164	891.880
900.220	897.694	895.929	892.157
	5 900.203	5 896.505	5 895.929
		897.694	896.504
		900.162	897.693
			900.263

	A		B		C		D
	881.084		881.083		881.081		881.081
	883.073		883.070		883.073		883.071
	883.848		883.847		883.845		883.840
	887.224		887.224		887.217		887.215
5	888.644	5	888.642	5	888.643	5	887.882
	890.093		890.091		890.091		888.642
	890.182		890.187		890.239		890.090
							890.237

A	B	C	D
871.255	871.255	871.255	870.983
878.541	878.540	875.954	871.234
880.149	880.228	878.533	872.567
		880.238	875.951
			878.531
			880.172

A	B	C	D
1010.036	1010.026	1010.031	1010.026
1010.112	1010.111	1010.818	1010.809
1010.819	1010.813	1011.627	1011.619
1010.893	1010.894	1014.477	1012.432
1014.477	1011.622	1017.457	1014.493
1017.458	1014.474	1017.666	1017.454
1017.875	1017.454	1017.873	1017.664
1019.662	1017.665	1018.972	1017.867
1020.231	1017.871	1019.662	1018.966
	1017.943	1020.145	1019.659
	1018.000		1020.150
	1019.658		
	1020.137		

A	B	C	D
1030.548	1030.542	1030.547	1030.542
1032.168	1030.628	1032.167	1032.163
1032.689	1032.164	1032.688	1032.683
1034.250	1032.684	1038.059	1033.359
1039.485	1038.053	1039.484	1034.017
1039.547	1039.482	1039.543	1034.251
1040.231	1039.546	1040.208	1035.458
	1040.210		1038.053
			1038.604
			1039.480
			1040.234

A	B	C	D
1051.266	1050.168	1050.167	1050.162
1054.974	1051.264	1051.266	1051.261
1055.519	1055.516	1055.519	1053.134
1058.496	1058.629	1058.635	1055.515
5 1058.635	5 1060.119	5 1060.121	5 1058.628
1060.123	1060.246		1060.110

A	B	C	D
1072.619	1072.612	1072.616	1070.069
1074.167	1072.696	1073.302	1072.611
1074.410	1073.300	1074.165	1073.301
1076.142	1074.165	1074.412	1074.162
5 1080.181	5 1074.407	5 1076.141	5 1074.390
	1076.135	1076.855	1076.135
	1076.854	1080.073	1076.853
	1080.170		1080.243

	B	C	D
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		1088.593	[illegible]
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A	B	C	D
1091.210	1091.204	1090.406	1090.394
1091.287	1092.572	1090.646	1090.646
1099.685	1092.852	1091.203	1091.223
1100.133	1098.065	1092.484	1091.746
	1099.680	1092.559	1092.098
	1100.167	1092.850	1092.197
		1093.369	1092.559
		1093.803	1092.853
		1094.471	1092.942
		1095.118	1093.366
		1095.685	1093.660
		1096.491	1093.797
		1099.677	1094.331
		1100.161	1094.469
			1095.112
			1095.256
			1095.443
			1095.688
			1095.919
			1096.481
			1096.591
			1097.276
			1097.499
			1098.063
			1098.827
			1099.713
			1100.161

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A	B	C	D
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1111.656	1111.512	1111.024	1111.018
1117.619	1111.655	1111.506	1111.551
5 1120.146	5 1113.794	5 1112.474	5 1112.360
	1114.629	1113.074	1112.472
	1115.299	1113.698	1112.627
	1116.568	1113.797	1113.070
	1117.617	1114.635	1113.798
	10 1119.439	10 1115.106	10 1113.888
	1119.703	1115.194	1114.631
	1120.100	1115.299	1114.904
		1115.876	1115.194
		1116.452	1115.299
		15 1116.573	15 1115.590
		1116.692	1115.876
		1117.281	1115.988
		1117.375	1116.267
		1117.619	1116.360
		20 1117.862	20 1116.460
		1118.063	1116.570
		1118.214	1116.685
		1118.461	1116.983
		1118.736	1117.281
		25 1118.864	25 1117.617
		1119.435	1117.855
		1120.201	1118.047
			1118.197
			1118.459
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			1118.649
			1118.733
			1118.858
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			35 1119.334
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			1119.863
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			1120.234

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1135.749	1134.173	1133.684	1133.319
5 1137.428	5 1135.133	5 1133.799	5 1133.798
1137.509	1135.518	1134.186	1134.177
1140.125	1135.733	1135.139	1135.134
	1137.424	1135.234	1135.536
	1140.126	1135.521	1135.811
	10 1140.211	10 1135.688	10 1137.439
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PAGE 79

A	B	C	D
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1271.773	1271.635	1272.688	1273.294
5 1271.832	5 1271.893	5 1272.955	5 1273.525
1272.347	1272.342	1273.294	1273.732
1272.688	1272.684	1273.534	1274.613
1272.777	1272.953	1275.665	1275.491
1273.294	1273.292	1276.629	1275.661
10 1273.535	10 1273.529	10 1276.720	10 1276.360
1273.618	1275.662	1277.276	1276.627
1273.676	1276.548	1277.920	1276.715
1275.665	1276.627	1278.285	1277.266
1276.629	1276.717	1278.645	1277.657
15 1276.720	15 1277.268	15 1278.860	15 1277.917
1277.275	1277.914	1280.072	1278.101
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			20 1278.953
			1279.916
			1280.183

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10	1266.077	10	1264.012	10	1264.001	10	1264.720
	1266.442		1264.787		1264.789		1264.606
	1266.565		1264.918		1264.918		1264.064
	1266.671		1265.[illegible]45		1265.319		1264.775
	1266.777		1266.060		1265.387		1264.932
15	1266.[illegible]	15	1266.441	15	1266.004	15	1265.334
	1267.319		1266.561		1266.107		1266.052
	1267.[illegible]5		1266.605		1266.443		1266.749
	1267.526		1266.775		1266.549		1266.869
	1267.647		1266.877		1266.651		1267.318
20	1267.953	20	1266.958	20	1266.880	20	1267.414
	1268.041		1267.133		1267.322		1267.510
	1268.[illegible]7		1267.197		1267.522		1267.643
	1[illegible].362		1267.[illegible]17		1267.646		1267.927
	1268.764		1267.459		1267.952		1268.750
25	1268.480	25	1267.644	25	1268.125	25	1269.256
	1269.[illegible]		1267.951		1268.495		1270.202
	1269.946		1268.125		1268.763		
			1268.[illegible]62		1269.269		
			1268.426		1269.495		
		30	1268.762	30	1269.820		
			1269.261		1270.174		
			1269.488				
			1269.604				
			1269.914				
		35	1270.024				

	A		B		C		D
	1250.856		1250.843		1250.348		1250.340
	1251.350		1251.347		1250.848		1250.845
	1251.439		1252.340		1251.351		1251.330
	1252.344		1253.345		1252.342		1252.359
5	1253.352	5	1253.444	5	1253.349	5	1253.344
	1253.444		1253.728		1253.452		1253.449
	1253.931		1253.924		1253.524		1253.515
	1254.029		1254.028		1253.929		1253.924
	1254.113		1254.109		1254.034		1254.031
10	1254.196	10	1254.191	10	1254.111	10	1254.102
	1254.359		1254.357		1254.198		1254.193
	1254.452		1254.449		1254.360		1254.357
	1254.735		1254.729		1254.453		1254.452
	1254.816		1254.813		1254.733		1254.730
15	1255.807	15	1255.801	15	1255.165	15	1255.045
	1255.961		1255.958		1255.803		1255.156
	1256.888		1256.681		1255.962		1255.795
	1256.952		1256.886		1256.050		1255.959
	1257.095		1256.951		1256.554		1256.547
20	1257.167	20	1257.086	20	1256.684	20	1256.682
	1257.345		1257.169		1256.888		1256.887
	1257.612		1257.342		1256.952		1257.088
	1258.621		1257.609		1257.092		1257.341
	1258.899		1258.621		1257.345		1257.608
25	1258.975	25	1258.890	25	1257.612	25	1258.533
	1259.152		1258.973		1258.295		1258.890
	1259.724		1259.149		1258.636		1259.147
			1259.576		1258.896		1260.198
					1259.150		
				30	1260.175		

A	B	C	D
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

A	B	C	D
1232.734	1230.357	1230.371	1230.364
1233.292	1232.729	1232.073	1232.063
1236.302	1233.288	1232.733	1232.729
1236.377	1233.362	1232.965	1232.965
5 1236.761	5 1235.203	5 1233.292	5 1233.284
1237.084	1236.294	1234.954	1234.951
1237.157	1236.374	1235.205	1235.201
1237.279	1236.758	1235.291	1235.288
1239.225	1237.075	1236.299	1235.537
10 1240.002	10 1237.157	10 1236.761	10 1236.293
1240.082	1237.276	1237.079	1236.758
1240.202	1237.530	1237.279	1237.075
	1239.217	1237.538	1237.276
	1239.323	1237.824	1237.525
	15 1239.995	15 1239.199	15 1237.819
	1240.081	1240.000	1239.173
	1240.197	1240.171	1239.271
			1239.998

	A	B	C	D
	1220.345	1220.342	1220.347	1220.345
	1220.433	1220.436	1220.729	1220.724
	1220.730	1220.730	1221.057	1221.048
	1221.054	1221.048	1221.619	1221.405
5	1221.130	1221.127	1222.204	1221.815
	1221.819	1221.817	1222.511	1222.196
	1222.629	1222.509	1222.629	1222.508
	1222.882	1222.627	1222.789	1222.626
	[illegible]	1223.830	[illegible]	1223.792
10	1223.[illegible]	1223.760	1223.769	1223.560
	1224.981	1224.971	1224.903	1223.766
	1225.085	1225.072	1225.171	1223.983
	1225.554	1225.550	1225.529	1224.904
	1225.823	1225.821	1225.823	1225.631
15	1226.106	1226.101	1226.105	1225.818
	1226.139	1226.137	1226.659	1226.111
	1226.463	1226.656	1226.942	1226.655
	1226.943	1226.658	1227.057	1226.938
	1227.056	1226.940	1227.540	1227.052
20	1229.168	1227.054	1228.534	1227.536
	1229.370	1227.535	1228.762	1228.530
	1229.445	1228.527	1229.368	1228.757
	1230.224	1228.755	1229.865	1229.365
		1229.363	1230.160	1229.588
25		1229.443		1229.860
		1230.164		1230.222

	A	B	C	D
	1211.259	1210.184	1210.187	1210.184
	1212.246	1211.251	1211.240	1211.193
	1213.014	1212.215	1212.204	1212.238
	1213.082	1212.269	1212.317	1212.443
5	1214.826	1213.011	1213.013	1213.007
	1214.962	1214.956	1214.375	1213.860
	1215.040	1215.040	1214.961	1213.953
	1215.488	1215.486	1215.487	1214.373
	1215.615	1215.611	1215.614	1214.960
10	1216.203	1216.193	1216.202	1215.484
	1218.522	1217.902	1217.920	1215.610
	1219.151	1218.511	1218.469	1216.194
	1220.219	1219.144	1218.531	1216.685
		1219.231	1219.150	1216.998
15		1219.647	1219.646	1217.303
		1220.199	1219.958	1217.909
			1220.196	1218.506
				1218.626
				1219.144
20				1219.643
				1219.953
				1220.043

A	B	C	D
[illegible]	[illegible]0.312	[illegible]	[illegible]
[illegible]	[illegible]1.461	[illegible]	[illegible]
[illegible]	[illegible]1.692	[illegible]	[illegible]
[illegible]	[illegible]5.080	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

	A		B		C		D
	1190.387		1190.385		1190.387		1190.383
	1191.138		1190.971		1190.982		1190.978
	1191.216		1191.137		1191.138		1191.136
	1191.471		1191.211		1191.217		1191.211
5	1191.923	5	1191.300	5	1191.472	5	1191.467
	1192.704		1191.469		1191.924		1191.921
	1193.428		1191.921		1192.705		1192.701
	1193.519		1192.703		1193.519		1193.515
	1193.593		1193.516		1194.857		1193.926
10	1195.349	10	1193.586	10	1195.347	10	1194.852
	1196.199		1193.647		1195.427		1195.341
	1197.758		1195.146		1195.542		1196.024
	1198.181		1195.341		1196.025		1196.188
	1198.531		1195.426		1196.197		1197.045
15	1200.191	15	1196.040	15	1197.756	15	1197.749
			1196.194		1198.134		1198.075
			1196.270		1198.529		1198.281
			1197.749		1199.092		1198.526
			1198.161		1199.572		1199.090
		20	1198.530	20	1200.243	20	1199.574
			1199.089				1199.985
			1200.243				1200.243

929

A	B	C	D
1180.632	1180.681	1180.297	1180.296
1180.631	1180.930	1180.394	[illegible]
1184.117	1184.111	1180.683	[illegible]
[illegible]	1185.930	1180.630	[illegible]
5 [illegible]	5 [illegible]	5 1182.224	5 [illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1186.413	1184.114	[illegible]
1180.066	[illegible]	1184.841	[illegible]
		1185.004	1185.711
	10 [illegible]	10 1185.481	10 1185.709
	1190.231	1185.714	1187.165
		1186.716	[illegible]
		1186.959	1189.161
		1187.080	1189.869
		15 1188.185	15 1190.120
		1190.104	

	A		B		C		D
	1170.044		1170.037		1170.041		1170.032
	1171.083		1170.892		1170.115		1170.209
	1171.494		1171.082		1170.207		1170.885
	1173.343		1171.492		1170.890		1171.079
5	1173.723	5	1172.156	5	1171.085	5	1171.492
	1174.526		1173.338		1171.494		1172.154
	1176.385		1173.718		1172.159		1172.735
	1176.681		1174.012		1173.343		1173.338
	1177.017		1174.497		1173.744		1173.727
10	1178.676	10	1176.382	10	1174.017	10	1174.386
	1178.762		1176.678		1174.449		1174.692
	1180.193		1177.014		1174.625		1175.195
			1178.373		1175.202		1176.381
			1178.673		1176.383		1176.678
		15	1178.759	15	1176.681	15	1177.012
			1178.990		1176.834		1177.319
			1180.202		1177.019		1178.375
					1177.336		1178.673
					1178.382		1178.985
				20	1178.677	20	1180.202
					1178.761		
					1178.992		
					1180.190		

927

A	B	C	D
[illegible]	1160.102	1160.102	[illegible]
[illegible]	1161.725	1161.728	[illegible]
[illegible]	1162.599	1162.601	[illegible]
[illegible]	1163.660	1163.660	[illegible]
5 [illegible]	5 1163.990	5 1163.991	5 [illegible]
[illegible]	1165.007	1165.050	[illegible]
[illegible]	[illegible]	1165.357	[illegible]
[illegible]	1165.939	1165.944	[illegible]
[illegible]	1166.305	1166.399	[illegible]
10 [illegible]	10 1167.046	10 1167.067	10 [illegible]
[illegible]	[illegible]	1169.202	[illegible]
[illegible]	[illegible]	1169.339	[illegible]
[illegible]	1170.046	1170.000	[illegible]
[illegible]	1170.222	1170.115	[illegible]
		15 1170.207	

A	B	C	D
1151.547	1151.007	1150.634	1150.625
1152.449	1151.544	1151.007	1151.007
1153.193	1152.445	1151.543	1151.533
1154.613	1153.188	1152.432	1152.397
5 1160.184	5 1154.525	5 1153.195	5 1152.478
	1154.605	1153.270	1153.188
	1155.040	1154.527	1153.270
	1158.235	1154.614	1154.345
	1159.080	1155.041	1154.526
	10 1160.102	10 1158.234	10 1154.609
	1160.193	1159.086	1155.038
		1160.102	1155.224
			1158.234
			1158.628
			15 1159.083
			1160.099

	A	B	C	D
	1290.545	1290.156	1290.160	1290.159
	1290.724	1290.246	1290.254	1290.579
	1291.355	1290.569	1290.478	1291.345
	1291.913	1290.706	1290.633	1291.637
5	1292.014	1291.210	1291.353	1291.912
	1292.379	1291.348	1291.632	1292.012
	1292.452	1291.428	1291.918	1292.366
	1292.833	1291.911	1292.017	1292.821
	1292.961	1292.010	1292.375	1292.960
10	1293.304	1292.094	1292.828	1293.080
	1293.747	1292.370	1292.963	1293.303
	1293.981	1292.451	1293.304	1293.744
	1294.731	1292.825	1293.747	1293.973
	1294.923	1292.958	1293.978	1294.297
15	1295.025	1293.300	1294.654	1294.707
	1295.613	1293.744	1294.922	1294.917
	1296.492	1293.977	1295.034	1295.030
	1296.711	1294.919	1295.168	1295.155
	1296.997	1295.028	1295.523	1295.521
20	1297.201	1295.520	1295.612	1295.608
	1298.163	1295.610	1295.797	1295.797
	1298.237	1295.792	1296.450	1296.386
	1298.378	1296.416	1296.995	1296.969
	1299.229	1296.493	1297.160	1297.169
25	1299.981	1296.677	1297.213	1297.836
	1300.063	1296.745	1298.160	1298.157
	1300.190	1296.994	1298.382	1298.379
		1297.194	1298.606	1298.614
		1298.156	1298.923	1298.918
30		1298.237	1299.229	1299.226
		1298.375	1299.981	1299.378
		1298.918	1300.057	1299.981
		1299.226	1300.138	1300.049
		1299.979	1300.192	1300.145
35		1300.051		
		1300.136		
		1300.190		

	A	B	C	D
	1300.064	1300.051	1300.058	1300.049
	1300.845	1300.838	1300.138	1300.145
	1300.941	1300.938	1300.435	1300.429
	1301.203	1301.196	1300.842	1300.841
5	1302.081	1302.074	1300.942	1300.937
	1302.696	1302.208	1301.043	1301.032
	1302.824	1302.693	1301.201	1301.194
	1303.327	1302.816	1301.932	1301.691
	1304.290	1303.325	1302.079	1302.070
10	1304.562	1304.287	1302.209	1302.204
	1304.706	1304.561	1302.696	1302.449
	1305.144	1304.700	1302.820	1302.694
	1305.288	1305.140	1303.326	1302.815
	1305.503	1305.289	1304.288	1303.202
15	1305.891	1305.501	1304.564	1303.324
	1306.304	1305.735	1304.705	1303.750
	1306.445	1305.886	1305.145	1303.953
	1306.524	1306.301	1305.296	1304.284
	1306.813	1306.438	1305.471	1304.561
20	1306.885	1306.804	1305.523	1304.698
	1307.025	1307.019	1305.736	1305.141
	1307.369	1307.364	1305.889	1305.291
	1308.153	1308.151	1306.303	1305.437
	1308.204	1308.379	1306.445	1305.732
25	1308.384	1308.458	1306.805	1305.881
	1308.464	1308.563	1307.024	1306.287
	1308.566	1308.633	1307.203	1306.448
	1308.637	1309.258	1307.367	1306.799
	1309.261	1309.661	1308.458	1307.014
30	1309.592	1309.812	1308.564	1307.366
	1309.669	1310.121	1308.634	1308.630
	1309.817	1310.198	1309.260	1309.256
	1310.129		1309.667	1309.660
	1310.201		1309.824	1309.818
			35 1310.127	35 1310.118

	A	B	C	D
	1310.129	1310.121	1310.127	1310.118
	1310.201	1310.198	1310.384	1310.379
	1310.383	1310.379	1310.510	1310.516
	1310.514	1310.505	1310.805	1310.802
5	1310.593	1310.803	1311.043	1311.038
	1311.045	1311.040	1311.128	1311.309
	1311.130	1311.126	1311.312	1315.182
	1311.313	1311.310	1311.433	1320.219
	1311.897	1311.431	1311.894	
10	1311.978	1311.889	1312.945	
	1312.398	1312.392	1313.782	
	1312.574	1312.700	1314.079	
	1312.718	1312.941	1314.801	
	1312.947	1313.072	1315.008	
15	1313.151	1313.148	1315.085	
	1313.471	1313.399	1315.193	
	1313.565	1313.675	1315.554	
	1314.080	1314.077	1315.614	
	1314.754	1314.750	1315.708	
20	1315.012	1315.006	1315.866	
	1315.092	1315.084	1316.132	
	1315.195	1315.191	1316.257	
	1315.554	1315.546	1316.437	
	1315.618	1315.614	1317.676	
25	1315.708	1315.698	1318.117	
	1315.861	1315.860	1320.224	
	1315.928	1315.923		
	1316.007	1315.999		
	1316.093	1316.083		
30	1316.260	1316.254		
	1316.455	1316.447		
	1316.552	1316.549		
	1316.808	1316.887		
	1316.947	1317.114		
35	1317.003	1317.387		
	1317.127	1317.611		
	1317.393	1317.696		
	1317.614	1318.115		
	1317.700	1318.728		
40	1318.118	1319.433		
	1318.858	1319.976		
	1319.233	1320.097		
	1319.441			
	1320.045			

	A	B	C	D
	1320.038	1320.322	1320.950	1321.131
	1320.328	1320.839	1321.082	1321.431
	1320.878	1320.890	1321.432	1321.858
	1321.083	1321.078	1321.879	1322.544
5	1321.158	1321.226	1322.095	1323.576
	1321.227	1321.284	1322.559	1324.175
	1321.433	1321.429	1323.370	1324.359
	1321.884	1321.880	1323.517	1324.799
	1322.561	1322.555	1324.182	1325.161
10	1323.336	1323.319	1324.347	1325.228
	1323.536	1323.523	1324.811	1325.597
	1324.182	1324.177	1325.166	1325.821
	1324.355	1324.350	1325.233	1326.109
	1324.812	1324.808	1325.606	1326.325
15	1325.168	1325.162	1325.828	1326.524
	1325.613	1325.232	1326.055	1326.840
	1325.679	1325.470	1326.138	1327.952
	1325.829	1325.602	1326.345	1328.108
	1326.039	1325.820	1326.443	1328.270
20	1326.137	1326.029	1326.528	1328.437
	1326.227	1326.133	1326.848	1328.838
	1326.349	1326.345	1327.584	1329.258
	1326.447	1326.440	1327.736	1330.171
	1326.528	1326.526	1327.948	
25	1326.856	1326.851	1328.098	
	1327.584	1327.581	1328.276	
	1327.738	1327.734	1328.446	
	1327.849	1327.843	1328.844	
	1327.950	1327.945	1329.275	
30	1328.099	1328.095	1329.830	
	1328.276	1328.273	1330.103	
	1328.845	1328.443		
	1329.276	1328.840		
	1329.909	1329.271		
35	1330.097	1329.901		
	1330.244	1330.090		
		1330.236		

	A		B		C		D
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	1331.649		1331.646		1331.800		1331.645
	1331.802		1331.796		1332.020		1331.795
	1332.018		1332.014		1332.297		1332.022
5	1332.105	5	1332.102	5	1332.477	5	1332.289
	1332.296		1332.193		1332.589		1332.469
	1332.480		1332.291		1332.735		1332.574
	1332.585		1332.469		1333.474		1332.745
	1332.757		1332.582		1333.672		1333.511
10	1333.491	10	1332.751	10	1333.975	10	1333.641
	1333.668		1333.487		1334.290		1333.971
	1334.300		1333.667		1334.604		1334.280
	1334.604		1333.972		1335.383		1334.603
	1335.383		1334.295		1335.521		1340.245
15	1335.492	15	1334.601	15	1335.982		
	1335.981		1335.380		1340.175		
	1336.320		1335.499				
	1336.431		1335.973				
	1336.614		1336.318				
20	1336.857	20	1336.844				
	1337.214		1337.202				
	1337.304		1337.298				
	1337.904		1337.921				
	1338.290		1340.211				
25	1338.606						
	1339.156						
	1339.590						
	1339.915						
	1340.104						

	A	B	C	D
	1340.624	1340.710	1342.289	1343.115
	1341.107	1341.100	1343.116	1343.673
	1341.234	1341.228	1343.457	1344.880
	1341.303	1341.295	1343.677	1345.508
5	1341.800	1341.793	1344.060	1347.170
	1342.289	1342.286	1344.301	1347.493
	1343.118	1343.110	1344.455	1350.235
	1343.458	1343.453	1344.599	
	1343.677	1343.674	1344.728	
10	1344.073	1344.067	1344.900	
	1344.302	1344.298	1345.539	
	1344.602	1344.453	1345.730	
	1344.729	1344.592	1345.989	
	1344.905	1344.726	1347.031	
15	1345.542	1344.901	1347.186	
	1345.730	1345.539	1347.466	
	1346.008	1345.724	1348.495	
	1347.041	1346.001	1350.214	
	1347.242	1347.033		
20	1347.469	1347.208		
	1348.823	1347.463		
	1349.380	1348.493		
	1350.211	1348.820		
		1349.463		
25		1350.210		

	A	B	C	D
	1350.211	1350.210	1350.268	1352.650
	1350.270	1350.751	1350.754	1356.844
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	1351.573	1352.366	1352.358	
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	1352.663	1354.582	1352.901	
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	1355.213	1355.431	1355.999	
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	1355.741	1355.734	1356.628	
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	1356.847	1356.843	1358.731	
	1357.167	1357.156	1358.876	
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	1358.469	1358.464	1359.571	
20	1358.584	1358.579	1360.263	
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	1358.867	1358.863		
	1359.013	1359.014		
	1359.091	1359.086		
25	1359.172	1359.167		
	1359.574	1359.563		
	1360.153	1359.645		
		1360.193		

	A	B	C	D
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	1363.832	1365.095	1370.006	
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	1365.306	1365.863		
	1365.872	1366.158		
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	1367.578	1367.992		
	1368.000	1368.207		
	1368.215	1369.017		
	1368.730	1369.418		
15	1368.931	1369.527		
	1369.025	1369.819		
	1369.426	1369.950		
	1369.533	1370.206		
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20	1369.956			
	1370.222			

	A	B	C	D
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	1372.542	1372.535		
10	1372.872	10 1372.869		
	1373.703	1375.551		
	1373.988	1376.240		
	1375.253	1377.089		
	1376.245	1377.174		
15	1377.092	15 1377.409		
	1377.179	1377.993		
	1378.067	1378.458		
	1378.355	1378.589		
	1378.496	1379.740		
20	1378.596	20 1380.238		
	1379.589			
	1379.757			
	1380.238			

	A	B	C	D
	1380.238	1380.238	1380.303	1390.193
	1380.627	1380.619	1380.626	
	1381.539	1381.529	1381.536	
	1381.621	1381.619	1381.754	
5	1381.767	1381.761	1382.094	
	1382.069	1382.076	1382.338	
	1382.339	1382.333	1382.425	
	1382.426	1382.422	1382.974	
	1382.974	1382.968	1383.369	
10	1383.135	1383.140	1383.651	
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	1383.618	1383.610	1384.304	
	1384.173	1384.170	1385.315	
	1384.315	1384.301	1389.955	
15	1385.320	1385.072	1390.103	
	1386.550	1385.314		
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	1388.356	1388.866		
	1388.487	1389.017		
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	1389.022	1389.909		
	1389.136	1390.229		
	1389.917			
	1390.233			

A	B	C	D
1390.233	1390.229	1400.167	1400.169
1390.521	1390.501		
1390.765	1390.751		
1391.031	1391.034		
1391.334	1391.322		
1391.583	1391.576		
1391.802	1391.796		
1392.070	1392.065		
1392.161	1392.156		
1392.251	1392.247		
1393.449	1393.448		
1393.883	1396.383		
1394.921	1400.083		
1395.983			
1396.402			
1397.329			
1397.581			
1399.448			
1400.090			
1400.235			

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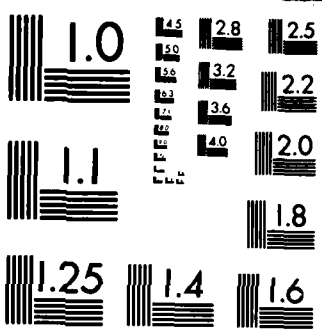
	1400.950	1400.941	1402.631	
	1401.074	1401.060	1402.810	
5	1401.974	1401.969	1404.030	
	1402.062	1402.052	1406.734	
	1402.644	1402.040	1407.141	
	1402.810	1402.801	1407.306	
	1403.469	1403.478	1408.526	
10	1403.819	1403.815	1408.831	
	1404.176	1404.176	1410.242	
	1404.269	1405.416		
	1404.452	1405.723		
	1405.174	1406.153		
15	1405.729	1406.432		
	1406.162	1406.727		
	1406.225	1407.160		
	1406.436	1407.302		
	1406.735	1408.079		
20	1407.164	1408.222		
	1407.309	1408.394		
	1408.226	1408.522		
	1408.397	1408.652		
	1408.536	1408.826		
25	1409.665	1409.506		
	1408.837	1409.756		
	1409.510	1410.060		
	1409.763	1410.235		
	1409.955			
30	1410.010			
	1410.113			
	1410.240			

A	B	C	D
1410.113	1410.059	1410.501	1420.240
1410.240	1410.235	1411.239	
1410.505	1410.503	1412.927	
1411.329	1411.319	1413.640	
5 1411.525	5 1411.589	5 1414.004	
1411.823	1412.127	1414.087	
1411.912	1412.640	1414.272	
1412.089	1412.922	1415.147	
1412.648	1413.184	1420.212	
10 1412.927	10 1413.340		
1413.185	1413.636		
1413.640	1414.001		
1414.004	1414.068		
1414.080	1414.279		
15 1414.156	15 1414.421		
1414.286	1414.483		
1414.425	1414.774		
1414.497	1414.993		
1414.577	1416.275		
20 1414.785	20 1416.475		
1414.991	1420.244		
1416.060			
1416.149			
1416.482			
25 1416.927			
1417.206			
1417.634			
1417.810			
1420.145			

	H	D	C	B
	1420.596	1421.209	1423.511	1430.187
	1420.726	1421.359	1426.638	
	1420.987	1421.649	1427.269	
	1421.224	1422.029	1430.186	
5	1421.364	1422.536		
	1421.660	1422.689		
	1422.042	1422.851		
	1422.548	1423.047		
	1422.699	1424.572		
10	1422.857	1424.873		
	1423.057	1425.841		
	1423.674	1426.023		
	1424.257	1426.127		
	1424.573	1426.442		
15	1424.879	1426.617		
	1425.848	1426.807		
	1426.029	1427.198		
	1426.135	1427.265		
	1426.446	1427.856		
20	1426.618	1428.196		
	1426.815	1428.880		
	1427.200	1430.164		
	1427.274			
	1427.356			
25	1427.859			
	1428.311			
	1428.887			
	1429.427			
	1430.246			

AD-A151 757 AN ATLAS OF PURE WATER VAPOR SPECTRA FROM 500 TO 5000/CM VOLUME 2..(U) OHIO STATE UNIV COLUMBUS ELECTROSCIENCE LAB R K LONG ET AL. SEP 84 2/5

UNCLASSIFIED ESL-713774-3-VOL-2 ARO-17603.4-GS F/G 7/4 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

	A	B	C	D
	1430.750	1430.732	1431.618	1440.184
	1431.237	1431.232	1440.228	
	1431.498	1431.489		
	1431.603	1431.596		
5	1431.693	1431.949		
	1431.996	1432.412		
	1432.416	1433.206		
	1433.184	1433.651		
	1433.264	1433.947		
10	1433.451	1434.271		
	1433.602	1434.675		
	1433.951	1434.941		
	1434.282	1438.802		
	1434.683	1439.701		
15	1434.949	1439.886		
	1435.186	1440.164		
	1435.316			
	1435.689			
	1437.464			
20	1438.810			
	1439.706			
	1439.893			
	1439.978			
	1440.222			

	A		B		C		D
	1440.579		1440.572		1441.573		1450.154
	1440.703		1440.698		1442.896		
	1441.092		1441.087		1443.237		
	1441.353		1441.340		1443.975		
5	1441.560	5	1441.553	5	1450.178		
	1442.718		1442.822				
	1442.834		1443.232				
	1443.239		1443.952				
	1443.955		1444.749				
10	1444.495	10	1444.856				
	1444.673		1445.067				
	1444.761		1446.151				
	1444.860		1446.493				
	1445.103		1448.920				
15	1445.180	15	1449.501				
	1445.249		1450.131				
	1446.156						
	1446.496						
	1448.268						
20	1448.897						
	1449.506						
	1450.181						

A	B	C	D
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1450.984	1450.979		
5 1451.096	5 1451.084		
1451.312	1451.309		
1451.464	1451.460		
1451.912	1452.619		
1452.234	1453.374		
10 1452.476	10 1453.588		
1452.599	1453.785		
1453.363	1454.078		
1453.588	1460.228		
1453.795			
15 1454.091			
1454.263			
1454.411			
1454.647			
1459.618			
20 1459.892			

	A		B	C	D
	1460.440		1460.920	1466.101	1470.166
	1460.946		1461.912	1470.211	
	1461.916		1462.096		
	1462.115		1462.363		
5	1462.186	5	1462.554		
	1462.369		1462.639		
	1462.644		1462.842		
	1462.733		1463.181		
	1462.849		1463.382		
10	1463.188	10	1466.584		
	1463.389		1466.818		
	1464.456		1466.909		
	1465.551		1467.028		
	1466.589		1467.468		
15	1466.786	15	1467.676		
	1466.914		1467.790		
	1467.032		1467.976		
	1467.482		1468.265		
	1467.670		1468.336		
20	1467.797	20	1468.699		
	1467.990		1469.109		
	1468.271		1469.265		
	1468.352		1469.360		
	1468.702		1469.747		
25	1469.115	25	1469.864		
	1469.271		1470.086		
	1469.372				
	1469.751				
	1469.866				
30	1470.085				
	1470.247				

A	B	C	D
1470.085	1477.244	1472.281	1480.048
1470.437	1477.552	1479.998	
1470.874	1477.798	1480.189	
1474.354	1478.117		
1474.636	1479.083		
1475.599	1479.153		
1476.645	1480.096		
1477.032	1480.234		
1477.252			
1477.490			
1477.559			
1477.817			
1477.939			
1478.128			
1479.089			
1480.103			
1480.241			

	A	B	C	D
	1480.103	1480.096	1482.456	1490.238
	1480.241	1480.234	1483.188	
	1480.338	1481.791	1490.151	
	1480.707	1481.975		
5	1480.775	1482.540		
	1481.383	1483.168		
	1481.789	1483.923		
	1481.983	1484.104		
	1482.491	1484.259		
10	1482.551	1484.499		
	1483.180	1484.630		
	1483.934	1484.781		
	1484.115	1484.964		
	1484.267	1485.127		
15	1484.326	1490.257		
	1484.510			
	1484.636			
	1484.786			
	1484.977			
20	1485.142			
	1485.661			
	1486.169			
	1486.741			
	1487.738			
25	1488.031			
	1488.197			
	1488.544			
	1490.088			

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1492.527	1493.277		
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1497.170			
1497.624			
1497.889			
1499.219			
1499.834			
1500.159			

A	B	C	D
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1500.563			
1500.773			
1500.843			
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1503.224			
1503.531			
1503.735			
1503.820			
1503.972			
1508.977			
1510.032			
1510.186			

A	B	C	D
1510.186	1520.234	1520.204	1520.181
1510.529			
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1511.494			
1511.493			
1511.602			
1512.767			
1512.895			
1513.087			
1513.201			
1513.820			
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1515.295			
1515.474			
1516.671			
1516.790			
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1518.654			
1519.022			
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1520.139			

A	B	C	D
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1526.294			
1527.542			
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1529.042			
1529.230			
1529.382			
1529.470			
1530.191			

A	B	C	D
1530.191	1540.224	1540.148	1540.233
1530.790			
1531.132			
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1531.752			
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1536.158			
1536.568			
1536.825			
1537.245			
1540.129			

A	B	C	D
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1547.211			
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1548.630			
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1688.533			
1688.932			
1689.179			
1690.107			
1690.230			

	A	B	C	D
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	1672.600			
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	1677.726			
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	1679.262			
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1657.765			
1658.275			
1658.798			
1660.247			

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1640.651			
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1644.693			
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1649.390			
1649.423			
1649.574			
1649.305			
1650.034			

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	1632.167			
	1632.792			
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	1637.916			
	1638.238			
	1638.397			
	1639.087			
10	1640.081			

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1626.163			
1626.073			
1627.645			
1628.054			
1630.253			

A	B	C	D
1611.039	1620.175	1620.212	1620.198
1611.281			
1611.580			
1612.182			
1613.102			
1617.694			
1619.362			
1619.511			
1619.717			
1619.805			
1619.885			
1619.989			
1620.082			

A	B	C	D
1600.239	1602.121	1610.157	1610.196
1600.482	1605.580		
1600.574	1610.081		
1601.157			
1601.460			
1602.299			
1602.730			
1602.868			
1603.267			
1603.984			
1604.859			
1605.678			
1606.193			
1606.682			
1607.056			
1609.319			
1609.883			

	A	B	C	D
	1590.140	1600.181	1600.188	1600.198
	1590.394			
	1590.782			
	1591.038			
5	1591.652			
	1592.270			
	1592.320			
	1592.617			
	1593.137			
10	1593.779			
	1593.872			
	1594.419			
	1596.192			
	1597.329			
15	1597.481			
	1597.866			
	1598.074			
	1598.265			
	1598.449			
20	1599.013			
	1600.239			

A	B	C	D
1580.368	1590.147	1590.211	1590.217
1581.151			
1581.390			
1581.711			
1582.474			
1582.997			
1583.357			
1584.167			
1585.479			
1585.666			
1585.990			
1586.060			
1586.295			
1586.996			
1587.086			
1587.469			
1588.494			
1588.948			
1589.222			
1589.725			
1590.140			

A	B	C	D
1571.155	1580.235	1580.211	1580.247
1571.486			
1572.941			
1573.369			
1573.586			
1573.954			
1574.456			
1577.655			
1578.319			
1579.248			
1579.480			
1580.187			

A	B	C	D
1562.135	1570.243	1570.234	1570.209
1562.259			
1562.374			
1562.614			
1563.239			
1563.549			
1564.934			
1565.370			
1565.715			
1566.033			
1566.490			
1567.432			
1570.179			

A	B	C	D
1550.501	1560.205	1560.158	1560.200
1551.066			
1551.530			
1551.954			
1552.149			
1552.642			
1553.009			
1555.260			
1555.466			
1556.025			
1560.205			

A	B	C	D
1690.298	1700.112	1700.220	1700.237
1690.894			
1692.191			
1692.370			
1692.699			
1693.240			
1693.420			
1693.696			
1694.034			
1694.172			
1700.192			

A	B	C	D
1701.978	1707.790	1710.203	1710.215
1702.302	1708.317		
1702.400	1708.805		
1702.803	1710.194		
1703.442			
1703.687			
1703.955			
1704.860			
1706.824			
1707.281			
1708.274			
1708.791			
1709.653			
1710.084			
1710.177			

A	B	C	D
1710.780	1710.777	1720.200	1720.216
1711.523	1711.529		
1711.638	1712.077		
1712.045	1720.238		
1712.494			
1712.895			
1713.672			
1715.895			
1719.150			
1719.764			
1720.060			
1720.154			

	A		B	C	D
	1720.060		1721.566	1730.187	1730.202
	1721.502		1722.541		
	1721.558		1722.633		
	1722.540		1723.912		
5	1722.649	5	1724.285		
	1723.049		1724.484		
	1723.409		1724.802		
	1723.921		1724.919		
	1724.293		1725.192		
10	1724.436	10	1725.376		
	1724.805		1725.520		
	1724.925		1726.212		
	1725.005		1726.363		
	1725.202		1726.805		
15	1725.377	15	1727.295		
	1725.520		1727.419		
	1726.217		1727.763		
	1726.395		1727.836		
	1726.730		1728.286		
20	1726.901	20	1730.240		
	1727.299				
	1727.413				
	1727.764				
	1727.837				
25	1728.286				
	1729.435				
	1730.093				

A	B	C	D
1730.640	1740.146	1740.266	1740.245
1731.040			
1731.474			
1732.013			
1732.310			
1735.363			
1735.851			
1736.330			
1737.015			
1737.527			
1737.960			
1738.382			
1738.497			
1738.664			
1740.175			

A	B	C	D
1740.654	1741.959	1750.178	1750.191
1740.859	1742.119		
1741.002	1744.765		
1741.128	1750.143		
1741.455			
1742.134			
1742.475			
1743.892			
1744.290			
1744.508			
1745.723			
1746.322			
1746.970			
1747.235			
1747.895			
1749.485			
1750.095			

A	B	C	D
1750.365	1752.987	1760.200	1760.165
1751.880	1753.388		
1752.780	1753.597		
1753.392	1753.843		
5 1753.603	5 1754.114		
1753.822	1754.417		
1754.120	1757.575		
1754.428	1758.723		
1755.696	1759.317		
10 1756.159	10 1760.059		
1757.148			
1757.599			
1758.336			
1758.594			
15 1759.320			
1760.246			

A	B	C	D
1760.901	1762.700	1770.223	1770.208
1761.125	1763.234		
1763.329	1764.173		
1763.680	1764.328		
5 1764.241	5 1764.510		
1764.151	1764.596		
1764.341	1764.698		
1764.522	1765.365		
1764.600	1765.802		
10 1764.708	10 1766.729		
1765.383	1767.124		
1766.733	1770.121		
1767.095			
1767.734			
15 1769.354			
1769.525			
1769.894			

A	B	C	D
1770.386	1774.640	1780.176	1780.148
1773.297	1776.122		
1773.902	1776.755		
1774.634	1777.132		
1775.052	1777.449		
1775.771	1777.734		
1776.353	1777.883		
1776.763	1778.071		
1777.137	1778.396		
1777.457	1778.525		
1777.669	1778.757		
1777.740	1779.020		
1777.887	1779.908		
1778.080			
1778.424			
1778.539			
1778.766			
1779.066			
1779.922			

	A	B	C	D
	1780.476	1781.254	1790.259	1790.243
	1781.144	1781.991		
	1781.942	1782.363		
	1782.369	1782.688		
5	1782.698	1783.181		
	1783.187	1783.819		
	1783.857	1785.327		
	1784.122	1785.557		
	1784.795	1785.807		
10	1785.082	1785.877		
	1785.566	1786.023		
	1785.810	1786.691		
	1785.889	1786.837		
	1786.026	1787.340		
15	1786.701	1788.026		
	1786.844	1788.327		
	1786.927	1788.597		
	1787.346	1789.884		
	1788.034	1790.005		
20	1788.360			
	1788.617			
	1789.880			
	1790.010			

A	B	C	D
1790.393	1793.878	1800.206	1800.238
1790.779	1794.051		
1793.132	1795.076		
1794.057	1795.367		
5 1795.081	5 1796.473		
1795.375	1796.590		
1795.751	1796.892		
1796.301	1797.014		
1796.478	1797.479		
10 1796.595	10 1798.131		
1796.938	1798.571		
1797.487	1800.065		
1798.137			
1798.593			
15 1798.732			
1798.812			
1798.972			
1799.410			
1800.033			

A	B	C	D
1800.030	1801.634	1804.609	1810.215
1801.267	1802.763	1805.907	
1801.585	1803.646	1806.574	
1801.736	1803.786	1808.695	
5 1802.417	5 1804.610	5 1809.262	
1802.615	1805.120	1810.205	
1802.993	1805.322		
1803.652	1805.748		
1805.794	1805.906		
10 1804.614	10 1806.571		
1805.124	1807.056		
1805.176	1807.625		
1805.340	1807.830		
1805.750	1808.373		
15 1805.909	15 1808.649		
1806.572	1809.290		
1806.490	1810.133		
1807.640			
1808.377			
20 1808.658			
1809.298			
1810.129			

	A	B	C	D
	1810.129	1811.142	1813.055	1812.622
	1810.816	1812.384	1813.238	1820.187
	1810.996	1812.879	1813.360	
	1812.233	1813.047	1813.587	
5	1813.054	1813.228	1814.691	
	1813.144	1813.377	1814.945	
	1813.250	1813.584	1815.454	
	1813.381	1814.712	1815.572	
	1813.589	1814.946	1816.062	
10	1815.[illegible]19	1815.452	1816.551	
	1815.457	1815.570	1816.660	
	1815.575	1816.057	1818.199	
	1816.063	1816.658	1818.897	
	1816.[illegible]	1817.148	1820.158	
15	1817.156	1817.667		
	1817.413	1818.894		
	1817.477	1820.159		
	1817.676			
	1818.900			
20	1820.162			

A	B	C	D
1820.370	1820.365	1820.372	1830.191
1820.823	1820.821	1820.822	
1821.382	1821.343	1821.411	
1821.841	1821.829	1821.871	
1822.099	1822.091	1822.073	
1822.429	1822.423	1830.133	
1822.788	1822.811		
1825.523	1825.968		
1825.742	1827.897		
1825.898	1828.205		
1825.976	1830.182		
1826.251			
1827.535			
1827.902			
1828.212			
1828.537			
1829.142			
1830.164			

A	B	C	D
1960.707	1960.702	1960.709	1960.700
1961.160	1961.129	1961.070	1961.245
1961.929	1961.174	1961.295	1961.916
1964.166	1961.925	1961.929	1963.176
1965.424	1963.185	1963.191	1964.161
1966.219	1964.163	1964.167	1965.417
1967.364	1965.421	1965.426	1968.133
1968.168	1966.163	1966.064	1969.225
1969.233	1966.269	1967.776	1969.369
1969.376	1967.596	1968.167	1969.546
1969.555	1968.164	1969.236	1969.762
1969.769	1969.229	1969.377	
1970.043	1969.374	1969.555	
	1969.552	1969.771	
	1969.767	1970.038	
	1970.039		

	A	B	C	D
	1950.101	1950.097	1950.104	1950.096
	1950.226	1950.217	1950.224	1950.212
	1950.322	1950.320	1950.329	1950.320
	1950.447	1950.445	1950.449	1950.440
5	1951.124	1951.120	1951.130	1951.104
	1951.208	1951.415	1951.418	1951.410
	1951.267	1952.178	1952.045	1952.021
	1952.182	1953.294	1952.185	1952.172
	1954.401	1954.399	1953.301	1953.287
10	1954.971	1954.927	1954.402	1954.397
	1955.244	1955.239	1954.883	1954.845
	1955.728	1955.725	1955.240	1955.721
	1955.818	1955.815	1955.730	1956.203
	1956.230	1956.222	1955.814	1956.574
15	1956.574	1956.572	1956.202	1956.795
	1956.637	1956.629	1956.263	1957.010
	1956.720	1956.802	1956.576	1957.139
	1956.805	1957.021	1956.630	1957.582
	1957.023	1957.142	1956.806	1958.093
20	1957.145	1957.646	1957.026	1958.604
	1957.652	1958.101	1957.147	1959.621
	1958.104	1959.624	1957.626	
	1959.630	1960.012	1957.678	
	1959.708		1958.104	
25	1960.194		1958.615	
			1959.633	

	A	B	C	D
	1940.264	1940.261	1940.264	1940.252
	1941.332	1941.334	1943.275	1943.462
	1941.620	1941.574	1944.064	1944.166
	1941.747	1941.740	1944.185	1946.490
5	1941.830	1942.916	1944.450	1947.387
	1941.901	1943.145	1944.751	1948.395
	1942.497	1944.062	1945.530	1948.500
	1942.802	1944.183	1946.533	1949.189
	1943.153	1944.446	1947.085	1949.413
10	1944.064	1944.741	1947.266	1949.794
	1944.189	1945.244	1947.403	1950.096
	1944.747	1945.656	1948.515	1950.212
	1945.317	1946.270	1949.248	
	1945.660	1946.397	1949.427	
15	1946.329	1947.081	1949.806	
	1947.401	1947.396	1950.104	
	1949.246	1949.240	1950.224	
	1949.427	1949.425		
	1949.789	1949.798		
20	1950.101	1950.097		
	1950.226	1950.217		

	A	B	C	D
	1930.697	1930.692	1930.052	1930.046
	1931.731	1930.778	1930.699	1930.688
	1932.112	1931.720	1930.865	1930.856
	1932.193	1932.108	1931.588	1931.582
5	1932.252	1932.381	1931.728	1931.714
	1932.387	1932.821	1932.115	1932.097
	1932.467	1933.118	1932.389	1932.378
	1932.525	1933.546	1932.825	1932.810
	1932.827	1934.388	1933.248	1933.330
10	1933.168	1934.510	1933.549	1933.536
	1933.549	1935.319	1934.390	1934.383
	1934.390	1935.669	1934.513	1934.506
	1934.513	1935.835	1935.323	1935.308
	1935.323	1936.213	1935.487	1935.478
15	1935.676	1936.670	1935.677	1935.664
	1935.837	1937.008	1935.839	1935.832
	1936.676	1937.208	1936.220	1936.205
	1937.010	1937.349	1936.676	1936.663
	1937.218	1937.458	1937.011	1937.002
20	1937.351	1937.941	1937.209	1937.180
	1937.462	1938.372	1937.461	1937.449
	1937.944	1938.694	1937.943	1937.912
	1938.373	1939.118	1938.153	1938.138
	1938.697	1939.758	1938.379	1938.371
25	1939.121		1938.698	1938.689
	1940.056		1939.122	1939.098
			1939.610	1939.603

	A	B	C	D
	1920.708	1920.706	1920.710	1920.915
	1920.898	1920.894	1920.907	1923.997
	1921.593	1922.485	1923.687	1924.721
	1922.260	1923.382	1924.449	1925.058
5	1923.265	1924.726	1924.733	1926.281
	1924.731	1925.061	1925.069	1926.711
	1924.811	1926.284	1926.287	1927.261
	1925.067	1926.716	1926.723	1927.458
	1925.145	1927.273	1927.275	1927.674
10	1925.202	1927.459	1927.462	1927.827
	1926.286	1927.672	1927.677	1929.016
	1926.525	1927.851	1927.859	1929.695
	1926.722	1929.023	1929.026	1929.797
	1926.802	1929.698	1929.707	1930.045
15	1927.276	1930.202	1929.801	1930.173
	1927.461		1930.052	
	1927.673		1930.203	
	1927.854			
	1927.943			
20	1929.026			
	1929.701			
	1930.204			

	A	B	C	D
	1911.865	1910.109	1910.301	1910.641
	1911.946	1911.860	1911.870	1911.857
	1912.069	1912.066	1912.072	1912.063
	1912.558	1912.552	1912.560	1912.553
5	1912.788	1912.786	1912.790	1912.784
	1913.929	1913.926	1913.292	1913.286
	1914.222	1914.221	1913.603	1913.912
	1914.577	1914.573	1913.930	1914.214
	1914.986	1914.984	1914.227	1914.576
10	1915.192	1915.186	1914.599	1914.981
	1915.264	1915.260	1914.987	1915.224
	1915.351	1915.555	1915.190	1915.551
	1915.558	1915.766	1915.261	1920.136
	1915.767	1916.674	1915.559	
15	1916.676	1916.794	1915.768	
	1916.796	1918.374	1916.679	
	1918.161	1918.849	1918.865	
	1918.855	1919.367	1919.514	
	1919.375	1919.505	1919.675	
20	1919.508	1919.679	1920.072	
	1919.684	1920.074		
	1920.131			

	A	B	C	D
	1900.071	1900.069	1900.072	1900.066
	1900.517	1900.513	1900.312	1900.308
	1901.241	1901.235	1900.518	1900.506
	1901.756	1901.737	1901.241	1901.231
5	1902.039	1902.036	1901.791	1901.704
	1902.603	1902.600	1902.042	1902.027
	1903.124	1903.124	1902.606	1902.589
	1903.647	1903.641	1903.132	1903.122
	1903.980	1903.975	1903.647	1903.633
10	1904.326	1904.349	1903.982	1903.970
	1904.372	1904.753	1904.493	1904.741
	1904.759	1906.061	1904.760	1906.057
	1906.064	1906.135	1906.064	1906.130
	1906.141	1906.730	1906.143	1906.727
15	1906.730	1907.059	1906.733	1910.184
	1907.697	1907.689	1907.063	
	1907.932	1908.076	1908.265	
	1907.990	1909.122	1909.130	
	1909.127	1909.801	1910.200	
20	1909.865	1910.109		
	1909.981			

	A		B		C		D
	1890.214		1891.547		1891.553		1891.993
	1890.719		1891.993		1891.900		1892.631
	1891.558		1892.594		1891.995		1896.992
	1891.637		1893.419		1892.564		1897.329
5	1891.997	5	1893.704	5	1893.429	5	1897.839
	1892.602		1894.355		1893.685		1898.662
	1893.430		1894.668		1894.356		1899.346
	1893.723		1895.507		1895.749		1900.072
	1893.869		1895.737		1896.995		1900.230
10	1894.162	10	1896.991	10	1897.368		
	1894.367		1897.367		1897.529		
	1894.678		1897.518		1897.855		
	1895.132		1897.850		1898.670		
	1895.253		1898.662		1899.355		
15	1895.518	15	1899.348	15	1900.077		
	1895.749		1900.073		1900.224		
	1896.995		1900.243				
	1897.380						
	1897.528						
20	1897.862						
	1898.675						
	1899.351						
	1900.081						
	1900.169						

	A	B	C	D
	1880.982	1880.972	1880.758	1880.968
	1881.082	1881.076	1880.979	1881.066
	1882.526	1882.015	1881.078	1882.017
	1884.405	1882.513	1882.019	1882.510
5	1884.563	1882.899	1882.522	1882.900
	1885.029	1884.406	1882.910	1885.790
	1885.308	1884.492	1883.379	1890.181
	1885.773	1885.020	1884.377	
	1887.532	1885.279	1885.035	
10	1888.258	1885.766	1885.391	
	1888.805	1887.451	1885.773	
	1889.737	1888.253	1887.530	
	1890.214	1888.799	1890.166	
		1890.203		

A	B	C	D
1870.816	1870.910	1871.632	1871.175
1871.046	1871.631	1871.892	1874.784
1876.636	1874.779	1874.785	1875.458
1877.761	1875.243	1875.246	1875.598
5 1879.027	5 1875.459	5 1875.461	5 1875.725
1879.304	1876.617	1875.814	1876.565
1879.606	1877.774	1876.083	1877.773
1879.790	1879.016	1876.241	1878.653
1880.213	1879.290	1876.579	1879.747
	10 1879.595	10 1876.681	10 1880.241
	1879.782	1877.779	
	1880.204	1878.676	
		1879.014	
		1879.235	
		15 1879.582	
		1879.808	
		1880.213	

A	B	C	D
1860.923	1860.905	1860.113	1862.191
1861.537	1861.492	1860.961	1862.770
1861.921	1861.916	1861.594	1862.957
1862.200	1862.194	1861.921	1865.825
5 1862.792	5 1862.782	5 1862.196	5 1870.058
1862.956	1862.949	1862.789	
1864.062	1863.681	1862.954	
1864.178	1864.052	1863.681	
1864.334	1864.168	1864.031	
10 1866.319	10 1864.329	10 1864.181	
1866.428	1865.147	1864.328	
1867.710	1866.323	1870.188	
1868.727	1869.993		
1869.603			

	A		B		C		D
	1850.179		1850.171		1850.179		1851.337
	1851.344		1850.379		1850.868		1851.854
	1851.855		1850.867		1851.343		1852.867
	1852.410		1851.340		1851.852		1853.344
5	1853.240	5	1851.847	5	1852.482	5	1853.733
	1853.352		1852.377		1852.884		1853.865
	1853.665		1852.961		1852.967		1854.069
	1853.752		1853.239		1853.240		1854.815
	1853.879		1853.347		1853.351		1855.170
10	1854.126	10	1853.661	10	1853.662	10	1855.287
	1854.208		1853.738		1853.750		1855.504
	1855.290		1853.875		1853.878		1855.799
	1855.509		1854.118		1854.115		1855.945
	1856.264		1854.814		1854.573		1856.343
15	1856.921	15	1855.276	15	1854.819	15	1856.526
	1857.281		1855.504		1855.175		1856.906
	1857.490		1855.800		1855.276		1857.275
	1857.633		1855.948		1855.507		1857.622
	1857.708		1856.250		1855.804		1860.111
20	1858.279	20	1856.572	20	1855.957	20	1860.207
	1858.375		1856.917		1856.208		
	1858.525		1857.277		1856.578		
	1859.709		1857.487		1856.919		
	1859.871		1857.622		1857.280		
25	1860.207	25	1858.273	25	1857.490		
			1858.576		1857.627		
			1859.688		1858.393		
			1859.861		1858.734		
			1860.113		1859.900		
				30	1860.113		

A	B	C	D
1840.305	1840.295	1840.294	1850.176
1840.801	1840.797	1841.129	
1841.133	1841.128	1848.964	
1841.366	1841.375	1849.344	
5 1842.162	5 1842.219	5 1849.647	
1842.856	1842.856	1850.179	
1842.946	1845.982		
1843.403	1846.464		
1844.717	1847.378		
10 1845.236	10 1847.999		
1845.377	1848.822		
1845.609	1849.335		
1845.792	1849.639		
1845.965	1850.171		
15 1846.470			
1846.573			
1847.390			
1847.697			
1847.873			
20 1848.819			
1849.346			
1849.651			
1849.723			
1850.179			

	A	B	C	D
	1830.415	1831.722	1833.443	1840.202
	1831.728	1831.995	1834.136	
	1832.000	1832.268	1834.365	
	1832.273	1832.930	1834.720	
5	1833.275	5 1833.211	5 1834.952	
	1834.018	1833.289	1835.564	
	1834.156	1834.146	1835.943	
	1834.370	1834.360	1838.197	
	1834.527	1834.519	1838.470	
10	1834.705	10 1834.704	10 1839.141	
	1834.940	1834.932	1839.384	
	1835.574	1835.565	1839.744	
	1835.778	1835.868	1840.146	
	1835.898	1837.413		
15	1837.096	15 1838.185		
	1837.370	1838.467		
	1838.196	1838.868		
	1838.476	1839.149		
	1839.160	1839.323		
20	1839.327	20 1839.383		
	1839.399	1839.536		
	1839.477	1839.742		
	1839.538	1840.153		
	1840.164			

A	B	C	D
1970.250	1970.248	1970.251	1970.240
1972.592	1972.585	1972.592	1972.578
1974.605	1972.983	1972.988	1972.975
1975.343	1974.599	1973.116	1973.110
5 1975.438	5 1974.733	5 1974.347	5 1974.342
1975.798	1975.340	1974.608	1974.593
1976.193	1975.435	1974.682	1974.802
1976.332	1975.795	1974.738	1975.336
1977.628	1976.189	1975.344	1975.430
10 1979.080	10 1976.863	10 1975.439	10 1975.791
1980.193	1977.625	1975.800	1976.128
	1978.015	1976.174	1976.855
	1979.077	1976.870	1977.616
	1980.188	1977.628	1978.010
		15 1978.021	15 1979.073
		1979.081	1980.228
		1980.189	

	A	B	C	D
	1980.760	1980.755	1980.759	1980.745
	1981.017	1981.016	1981.026	1981.011
	1981.326	1981.319	1981.327	1981.314
	1981.402	1981.401	1981.602	1981.588
5	1981.460	1981.459	1981.989	1981.975
	1981.599	1981.594	1982.192	1982.182
	1981.989	1981.981	1982.699	1982.694
	1982.063	1982.064	1983.026	1983.017
	1982.190	1982.187	1983.405	1983.392
10	1982.696	1982.694	1984.288	1983.654
	1983.025	1983.022	1984.490	1984.279
	1984.288	1983.395	1984.775	1984.456
	1984.499	1984.285	1985.997	1984.767
	1984.774	1984.495	1986.336	1985.984
15	1985.797	1984.772	1986.457	1986.324
	1985.996	1985.989	1986.654	1986.445
	1986.074	1986.073	1986.735	1986.643
	1986.456	1986.453	1986.881	1986.872
	1986.653	1986.648	1987.152	1987.145
20	1986.879	1986.877	1987.338	1987.326
	1987.151	1987.148	1988.599	1988.787
	1987.335	1987.333	1989.928	1989.922
	1988.343	1988.298	1990.082	
	1989.927	1988.420		
25	1990.196	1989.924		
		1990.204		

	A	B	C	D
	1991.812	1990.295	1990.303	1990.290
	1991.942	1992.013	1992.795	1993.339
	1992.373	1992.668	1993.324	1993.915
	1992.618	1993.222	1993.528	1994.844
5	1992.662	1993.263	1993.928	1995.231
	1993.253	1993.520	1994.859	1995.555
	1994.858	1994.851	1995.240	1995.955
	1995.238	1995.234	1995.314	1996.519
	1995.562	1995.313	1995.563	1996.799
10	1995.964	1995.559	1995.967	1998.749
	1996.526	1995.959	1996.527	1998.991
	1996.807	1996.523	1996.811	1999.532
	1998.637	1996.803	1996.890	1999.932
	1998.914	1998.636	1998.642	
15	1999.542	1998.880	1998.827	
	1999.940	1999.537	1999.541	
	2000.024	1999.936	1999.943	
	2000.203	2000.022		
		2000.202		

	A	B	C	D
	2000.018	2000.894	2000.898	2000.889
	2000.897	2001.009	2001.013	2001.002
	2001.012	2001.789	2001.793	2001.561
	2001.884	2001.879	2001.884	2001.869
5	2002.642	2002.639	2002.643	2002.636
	2002.999	2002.995	2002.999	2002.987
	2003.391	2003.387	2003.391	2003.379
	2003.634	2003.631	2003.633	2003.622
	2004.181	2004.178	2004.183	2004.175
10	2004.899	2004.896	2004.519	2004.510
	2005.633	2005.456	2004.899	2004.889
	2005.720	2005.623	2005.472	2005.460
	2006.977	2006.971	2005.631	2005.607
	2007.694	2007.669	2006.977	2006.965
15	2008.065	2008.062	2007.644	2007.577
	2009.329	2009.312	2008.065	2008.052
	2010.235	2010.243	2009.280	2009.243
			2009.329	2010.249
			2010.239	

55°

A	B	C	D
2010.901	2010.897	2010.901	2010.538
2011.017	2011.014	2011.018	2010.892
2011.316	2011.313	2011.317	2011.009
2011.950	2011.947	2011.950	2011.307
2012.152	2012.145	2012.153	2011.939
2012.790	2012.295	2012.312	2012.139
2012.905	2012.783	2012.790	2012.303
2013.904	2012.895	2012.903	2012.776
2014.427	2013.899	2013.906	2012.888
2014.641	2014.424	2014.420	2013.891
2014.728	2014.639	2014.514	2014.422
2014.831	2014.723	2014.646	2014.641
2015.276	2014.824	2014.726	2014.719
2016.766	2015.274	2014.832	2014.819
2018.320	2015.741	2015.281	2015.273
2019.050	2016.281	2015.748	2016.429
2019.955	2016.712	2016.661	2017.230
2020.207	2018.285	2017.033	2019.194
	2019.034	2018.462	2019.938
	2019.945	2019.073	
	2020.209	2019.724	
		2019.956	
		2020.204	

A	B	C	D
2020.534	2020.528	2020.534	2020.520
2020.606	2022.078	2021.798	2021.259
2022.080	2022.998	2022.083	2021.786
2023.024	2024.380	2022.954	2022.076
5 2024.389	5 2025.244	5 2023.067	5 2022.894
2025.248	2025.891	2023.625	2023.612
2025.896	2025.994	2024.389	2024.374
2025.996	2026.113	2025.250	2025.240
2026.115	2026.578	2025.898	2025.889
10 2026.597	10 2027.015	10 2025.997	10 2025.991
2026.860	2027.319	2026.116	2026.108
2027.020	2028.313	2026.568	2026.536
2028.317	2029.991	2026.633	2026.946
2029.996	2030.221	2027.036	2027.310
15 2030.071		15 2027.321	15 2027.979
2030.229		2027.986	2028.305
		2028.316	2028.801
		2028.816	2029.983
		2029.997	2030.217
		20 2030.230	

	A	B	C	D
	2030.229	2030.221	2030.230	2030.217
	2030.304	2030.303	2030.303	2031.442
	2032.289	2032.286	2031.449	2031.896
	2034.046	2034.043	2032.291	2032.281
5	2034.135	2034.128	2034.058	2034.029
	2034.360	2034.352	2034.361	2034.347
	2035.140	2035.134	2035.143	2035.130
	2035.307	2035.304	2035.308	2035.300
	2035.524	2035.522	2035.528	2035.519
10	2037.503	2036.609	2036.618	2036.604
	2038.089	2037.492	2037.529	2037.431
	2039.944	2038.084	2038.092	2038.080
	2040.013	2039.281	2038.764	2038.747
	2040.217	2039.942	2039.284	2039.278
15		2040.007	2039.946	2039.939
		2040.097		

	A		B		C		D
	2041.263		2041.229		2040.306		2040.300
	2041.493		2041.456		2041.186		2041.610
	2043.942		2043.159		2041.542		2043.151
	2046.512		2043.913		2043.165		2043.804
5	2046.789	5	2046.502	5	2043.892	5	2043.879
	2047.721		2046.786		2043.952		2046.475
	2048.648		2047.719		2046.485		2046.780
	2049.718		2048.642		2046.539		2047.520
	2050.226		2049.714		2046.790		2047.716
		10	2050.234	10	2047.536	10	2048.635
					2047.723		2048.961
					2048.018		2049.437
					2048.502		2049.538
					2048.649		2049.710
				15	2048.979	15	2049.915
					2049.458		2050.238
					2049.538		
					2049.720		
					2049.921		
				20	2050.237		

	A	B	C	D
	2050.637	2050.630	2050.393	2050.289
	2050.977	2050.975	2050.487	2050.382
	2051.390	2051.385	2050.637	2050.622
	2051.550	2051.547	2050.858	2050.852
5	2052.991	2052.987	2050.979	2051.031
	2053.577	2053.572	2051.043	2051.377
	2053.863	2053.857	2051.127	2051.543
	2054.433	2054.425	2051.391	2051.976
	2054.508	2054.504	2051.552	2052.242
10	2058.570	2054.771	2051.791	2052.701
	2059.085	2057.413	2051.994	2052.979
	2059.924	2058.233	2052.251	2053.569
		2058.567	2052.718	2053.849
		2059.082	2052.991	2054.417
15		2059.838	2053.169	2054.500
			2053.579	2054.768
			2053.863	2054.959
			2054.075	2055.402
			2054.433	2055.852
20			2054.510	2056.286
			2054.775	2056.723
			2054.973	2057.156
			2055.412	2057.404
			2055.857	2058.024
25			2056.301	2058.229
			2056.731	2058.478
			2057.418	2058.563
			2058.237	2058.868
			2058.494	2058.957
30			2058.571	2059.080
			2058.885	2059.197
			2058.961	2059.749
			2059.088	2059.836
			2059.217	
35			2059.763	
			2059.845	

A	B	C	D
2060.478	2060.448	2060.413	2060.354
2062.546	2061.868	2060.528	2061.859
2063.082	2062.544	2061.875	2062.127
2064.833	2063.077	2062.136	2062.540
5 2065.013	5 2064.792	5 2062.548	5 2063.074
2065.841	2064.998	2063.085	2065.156
2066.612	2065.809	2065.066	2065.978
2067.276	2066.608	2065.910	2066.600
2067.777	2067.273	2066.612	2067.265
10 2070.231	10 2067.769	10 2067.275	10 2067.764
	2067.853	2067.630	2067.976
	2068.886	2067.778	2068.338
	2069.337	2067.990	2068.876
	2070.246	2068.358	2069.076
		15 2068.722	15 2069.332
		2068.891	2069.429
		2069.082	2069.788
		2069.347	2070.142
		2069.441	2070.247
		20 2069.802	
		2070.156	
		2070.246	

	A	B	C	D
	2071.946	2071.943	2070.155	2070.142
	2072.537	2072.530	2070.558	2070.503
	2073.372	2073.367	2070.858	2070.843
	2073.990	2073.985	2071.201	2071.193
5	2074.231	2074.221	2071.551	2071.540
	2075.716	2075.713	2071.678	2071.672
	2076.033	2076.023	2071.948	2071.941
	2076.703	2076.696	2072.226	2072.522
	2076.970	2076.962	2072.537	2072.888
10	2077.043	2078.156	2072.900	2073.364
	2078.161	2078.556	2073.243	2073.978
	2078.239	2079.927	2073.375	2074.150
	2078.307	2080.242	2073.571	2074.534
	2078.565		2073.991	2075.166
15	2079.930		2074.187	2075.621
	2080.204		2074.236	2075.709
			2074.555	2075.890
			2075.173	2076.017
			2075.630	2076.685
20			2075.717	2076.955
			2075.804	2077.629
			2075.896	2078.156
			2076.032	2078.211
			2076.107	2078.494
25			2076.702	2078.542
			2076.970	2079.918
			2077.638	2080.170
			2077.913	
			2078.161	
30			2078.546	
			2078.599	
			2079.931	
			2080.186	

A	B	C	D
2081.867	2081.863	2081.226	2081.216
2083.783	2082.901	2081.874	2081.829
2085.083	2083.445	2082.907	2082.892
2085.499	2083.779	2083.453	2083.438
5 2087.403	5 2084.980	5 2083.784	5 2083.770
2089.738	2085.079	2084.987	2084.977
2090.097	2085.359	2085.083	2085.072
	2085.491	2085.367	2085.361
	2086.829	2085.499	2085.483
	10 2087.387	10 2086.320	10 2086.313
	2089.731	2086.607	2086.599
	2090.020	2086.833	2086.826
	2090.080	2087.366	2087.304
		2087.417	2088.638
		15 2088.645	15 2088.726
		2088.733	2089.669
		2089.713	2090.205
		2089.761	
		2089.990	
		20 2090.182	

	A	B	C	D
	2090.031	2090.082	2090.182	2090.205
	2090.097	2090.354	2090.358	2090.891
	2090.357	2090.965	2090.971	2090.962
	2090.602	2091.082	2091.088	2091.078
5	2090.968	2092.344	2091.746	2091.738
	2091.087	2092.979	2092.348	2092.339
	2092.346	2093.308	2092.983	2092.975
	2092.982	2093.400	2093.313	2093.301
	2093.311	2093.854	2093.403	2093.629
10	2093.403	2094.086	2093.495	2093.851
	2093.858	2095.051	2093.638	2094.078
	2094.091	2095.239	2093.859	2094.850
	2094.864	2095.485	2094.091	2095.042
	2095.055	2095.573	2094.866	2095.232
15	2095.244	2096.311	2095.055	2095.480
	2095.491	2097.356	2095.246	2096.304
	2095.573	2098.537	2095.494	2097.015
	2096.317	2099.071	2096.319	2097.328
	2097.363	2099.963	2097.019	2097.927
20	2098.545		2097.366	2098.530
	2099.077		2098.546	2099.067
	2099.967		2099.081	2099.460
	2100.112		2099.968	2099.957

A	B	C	D
2100.427	2100.422	2100.439	2100.388
2102.988	2102.982	2102.988	2101.777
2103.255	2103.320	2103.128	2102.978
2103.327	2103.522	2103.329	2103.106
2103.526	2104.638	2103.526	2103.315
2105.780	2105.773	2104.641	2103.517
2106.343	2106.336	2105.780	2104.633
2107.414	2107.535	2106.344	2105.767
2107.540	2108.946	2107.545	2106.320
2107.626	2110.266	2108.646	2107.515
2107.685		2108.949	2108.635
2108.948		2109.571	2106.941
2110.264		2109.998	2109.555
		2110.266	2109.983
			2110.128

A	B	C	D
2240.437	2240.428	2240.439	2240.422
2241.112	2241.109	2240.960	2240.951
2241.500	2241.494	2241.113	2241.104
2241.783	2241.779	2241.500	2241.487
5 2242.453	5 2242.444	5 2241.784	5 2241.773
2242.732	2242.726	2241.865	2242.220
2243.104	2243.099	2242.450	2242.438
2243.580	2243.563	2242.731	2242.714
2243.758	2243.753	2243.105	2243.096
10 2243.879	10 2243.876	10 2243.437	10 2243.429
2244.397	2244.395	2243.579	2243.562
2245.032	2244.697	2243.760	2243.745
2245.645	2245.029	2243.881	2243.873
2245.024	2245.644	2244.398	2244.390
15 2246.291	15 2246.021	15 2244.703	15 2244.693
2246.780	2246.289	2244.835	2244.81[illegible]
2246.920	2246.776	2245.034	2245.025
2247.675	2247.667	2245.651	2245.644
2249.689	2247.994	2246.027	2246.017
20 2249.850	20 2248.699	20 2246.291	20 2246.274
2250.250	2249.680	2246.634	2246.767
	2249.847	2246.782	2247.499
	2250.254	2246.893	2247.661
		2247.513	2247.987
		25 2247.676	25 2248.100
		2248.002	2248.697
		2248.111	2249.279
		2248.616	2249.492
		2248.705	2249.674
		30 2249.299	30 2249.842
		2249.501	2250.255
		2249.691	
		2249.852	
		2250.250	

582

	A	B	C	D
	2230.205	2230.203	2230.208	2230.199
	2230.984	2230.982	2230.986	2230.978
	2231.134	2231.129	2231.134	2231.118
	2231.752	2231.744	2231.753	2231.484
5	2232.518	2232.514	2232.518	2231.740
	2233.210	2232.588	2232.594	2232.118
	2233.276	2233.203	2232.942	2232.502
	2234.019	2233.346	2233.210	2232.586
	2234.755	2234.010	2233.363	2232.724
10	2235.114	2234.749	2234.021	2232.931
	2235.496	2235.486	2234.753	2233.193
	2235.634	2235.629	2235.115	2233.345
	2235.733	2235.729	2235.497	2234.003
	2236.257	2236.254	2235.636	2234.745
15	2236.942	2236.931	2235.738	2235.113
	2237.266	2237.261	2236.258	2235.480
	2237.648	2237.647	2236.943	2235.625
	2237.771	2237.767	2237.267	2235.722
	2238.099	2238.095	2237.652	2236.238
20	2238.362	2238.356	2237.773	2236.926
	2238.940	2238.935	2237.979	2237.255
	2239.060	2239.056	2238.099	2237.645
	2239.394	2239.485	2238.269	2237.761
	2239.489	2239.748	2238.364	2237.973
25	2239.752	2240.250	2238.940	2238.090
	2240.249		2239.060	2238.257
			2239.397	2238.347
			2239.492	2238.927
			2239.752	2239.047
30			2240.245	2239.481
				2239.739
				2239.878
				2240.250

A	B	C	D
2220.355	2220.788	2220.358	2220.348
2222.037	2222.033	2220.797	2220.536
2223.807	2222.278	2221.218	2220.781
2224.767	2223.798	2222.037	2221.203
2225.144	2224.759	2222.283	2221.280
2225.862	2225.141	2223.807	2222.027
2226.227	2225.858	2224.769	2222.274
2227.046	2226.225	2225.146	2222.726
2227.397	2227.054	2225.410	2222.906
2227.842	2227.393	2225.863	2223.444
2228.635	2227.492	2226.230	2223.791
2229.422	2228.632	2226.746	2224.150
2230.205	2229.419	2227.053	2224.571
	2229.796	2227.396	2224.753
	2229.990	2227.844	2224.846
	2230.203	2228.636	2225.138
		2229.424	2225.398
		2229.805	2225.548
		2229.997	2225.850
		2230.208	2226.221
			2226.736
			2226.923
			2227.033
			2227.377
			2227.584
			2227.826
			2228.254
			2228.626
			2228.918
			2229.416
			2229.572
			2229.788
			2229.879
			2229.996
			2230.199

	A	B	C	D
	2210.069	2210.062	2210.069	2210.052
	2210.522	2210.518	2210.523	2210.511
	2211.396	2211.393	2211.399	2211.389
	2211.516	2211.512	2211.518	2211.512
5	2211.616	2211.611	2211.618	2211.594
	2211.707	2212.148	2212.152	2212.140
	2212.326	2212.321	2212.327	2212.309
	2212.539	2212.532	2212.540	2212.524
	2212.612	2213.237	2213.243	2212.798
10	2213.243	2213.395	2213.403	2213.234
	2213.401	2213.483	2214.157	2213.390
	2213.484	2214.148	2214.356	2213.601
	2214.156	2214.351	2215.066	2214.144
	2214.354	2215.055	2215.673	2214.344
15	2215.061	2215.665	2215.954	2215.049
	2215.673	2215.946	2216.229	2215.195
	2215.958	2216.223	2216.855	2215.657
	2216.226	2216.851	2217.711	2215.948
	2216.855	2217.702	2218.062	2216.219
20	2217.737	2218.057	2218.523	2216.847
	2218.062	2218.515	2218.843	2217.526
	2218.520	2218.840	2219.426	2217.725
	2218.609	2219.419	2220.234	2218.054
	2218.843	2220.243		2218.298
25	2219.425			2218.503
	2219.504			2218.832
	2220.236			2219.047
				2219.415
				2219.799
30				2220.247

	A	B	C	D
	2200.304	2200.296	2200.303	2200.288
	2200.738	2200.734	2200.741	2200.731
	2201.746	2201.736	2201.746	2201.729
	2202.742	2202.734	2202.745	2202.605
5	2203.729	2203.720	2203.161	2202.727
	2204.710	2204.708	2203.729	2203.143
	2205.216	2205.207	2204.712	2203.488
	2205.684	2205.678	2205.049	2203.716
	2205.879	2205.869	2205.213	2204.375
10	2206.206	2206.196	2205.685	2204.704
	2206.275	2206.408	2205.878	2205.194
	2206.414	2206.645	2206.207	2205.675
	2206.651	2206.964	2206.270	2205.861
	2206.733	2207.609	2206.419	2206.194
15	2206.791	2208.566	2206.654	2206.404
	2206.969	2208.726	2206.967	2206.639
	2207.620	2208.869	2207.422	2206.953
	2208.572	2209.508	2207.510	2207.415
	2208.734	2210.062	2207.619	2207.491
20	2208.873	2210.196	2208.572	2207.604
	2209.514		2208.735	2208.563
	2210.069		2208.876	2208.722
	2210.140		2209.520	2208.864
			2210.069	2209.505
25			2210.195	2210.052

A	B	C	D
2190.010	2190.595	2190.013	2190.003
2190.603	2191.718	2190.344	2190.335
2191.721	2192.474	2190.603	2190.588
2193.035	2193.027	2191.420	2191.408
5 2193.114	5 2193.114	5 2191.722	5 2191.711
2193.354	2193.351	2192.108	2192.090
2194.376	2194.373	2192.477	2192.470
2194.586	2194.583	2193.037	2193.022
2195.629	2196.660	2193.356	2193.354
10 2196.663	10 2197.688	10 2193.534	10 2193.527
2197.693	2198.523	2194.378	2194.366
2198.528	2198.598	2194.586	2194.576
2198.603	2198.702	2195.098	2195.084
2198.712	2199.732	2195.632	2195.267
15 2199.736	15 2199.920	15 2196.664	15 2195.615
2199.920	2200.037	2197.693	2196.209
2200.098		2198.529	2196.655
		2198.604	2197.143
		2198.713	2197.685
		20 2199.736	20 2198.073
		2199.923	2198.515
			2198.593
			2198.707
			2198.990
			25 2199.722
			2199.913

A	B	C	D
2181.338	2181.333	2181.341	2180.395
2181.422	2183.212	2183.222	2181.316
2183.221	2184.736	2184.743	2182.654
2184.741	2185.205	2184.887	2182.934
5 2185.209	5 2185.271	5 2185.274	5 2183.207
2185.275	2186.630	2185.998	2183.463
2186.635	2186.906	2186.122	2183.771
2186.911	2187.115	2186.635	2184.485
2186.996	2187.371	2186.917	2184.732
10 2187.117	10 2187.691	10 2187.122	10 2184.882
2187.375	2188.287	2187.378	2185.258
2187.698	2189.420	2187.698	2185.990
2189.277	2189.651	2188.190	2186.114
2189.427	2190.007	2188.292	2186.632
15 2189.656	15 2190.265	15 2189.277	15 2186.880
2190.010		2189.427	2187.106
2190.263		2189.659	2187.361
		2190.014	2187.686
		2190.264	2188.173
			20 2188.281
			2188.483
			2189.258
			2189.413
			2189.646
			25 2190.003
			2190.258

575

A	B	C	D
2171.254	2171.245	2171.253	2171.240
2172.319	2171.808	2171.815	2171.806
2172.479	2172.315	2172.140	2172.133
2172.753	2172.474	2172.319	2172.308
2175.031	2172.744	2172.481	2172.469
2176.277	2175.028	2172.751	2172.740
2178.895	2176.271	2174.224	2173.480
2179.764	2178.890	2175.032	2174.215
2180.256	2179.760	2176.281	2174.646
	2180.258	2177.019	2175.021
		2178.897	2175.812
		2179.766	2176.267
		2180.258	2177.006
			2178.122
			2178.886
			2179.260
			2179.758
			2180.259

575

A	B	C	D
2160.689	2160.687	2160.263	2160.247
2161.719	2161.714	2160.692	2160.681
2162.008	2162.006	2161.727	2161.668
2162.885	2162.882	2162.010	2161.996
5 2163.427	5 2163.422	5 2162.886	5 2162.871
2165.222	2165.215	2163.425	2163.397
2165.596	2165.593	2165.225	2165.211
2166.108	2166.103	2165.598	2165.587
2167.339	2167.331	2166.108	2166.094
10 2167.413	10 2167.765	10 2167.340	10 2167.324
2167.767	2169.186	2167.768	2167.758
2169.190	2170.254	2169.193	2168.306
2170.256		2170.253	2169.183
			2170.254

A	B	C	D
2150.858	2151.188	2150.855	2150.842
2151.192	2151.553	2151.192	2151.178
2152.552	2152.548	2151.556	2151.399
2154.577	2154.340	2152.563	2151.546
2154.708	2154.700	2154.046	2152.520
2154.786	2154.992	2154.352	2153.522
2154.996	2156.555	2154.709	2154.036
2156.559	2158.096	2154.998	2154.337
2156.643	2158.292	2155.292	2154.695
2158.099	2159.995	2156.560	2154.989
2158.300	2160.253	2158.100	2155.281
2159.999		2158.302	2156.546
2160.145		2160.001	2157.436
		2160.256	2158.091
			2158.281
			2159.992
			2160.249

A	B	C	D
2141.518	2141.513	2141.518	2141.504
2142.246	2142.243	2142.248	2142.238
2144.710	2144.706	2143.842	2143.833
2144.805	2144.800	2144.804	2144.702
2145.465	2145.457	2145.450	2144.788
2145.676	2145.671	2145.676	2145.422
2147.399	2147.395	2147.404	2145.661
2148.183	2148.180	2148.185	2147.370
2148.335	2148.332	2148.337	2148.176
2149.122	2148.477	2148.479	2148.326
2150.247	2148.822	2148.829	2148.458
	2149.118	2149.123	2148.817
	2150.247	2149.623	2149.113
		2150.245	2149.604
			2150.246

A	B	C	D
2131.576	2131.571	2130.041	2130.029
2135.529	2135.525	2131.579	2131.567
2136.137	2135.733	2132.546	2132.540
2136.670	2136.129	2135.529	2132.891
5 2137.218	5 2136.668	5 2135.738	5 2135.520
2137.357	2137.213	2136.103	2136.093
2138.182	2137.344	2136.160	2136.156
2138.271	2138.178	2136.678	2136.671
2139.323	2139.317	2137.233	2137.186
10 2139.473	10 2139.469	10 2137.351	10 2138.164
2139.807	2139.804	2138.184	2139.269
2139.919	2139.918	2139.311	2139.797
2140.246	2140.242	2139.475	2139.908
		2139.809	2140.242
		15 2139.923	
		2140.243	

A	B	C	D
2121.267	2121.260	2121.267	2121.254
2121.409	2121.414	2121.420	2121.404
2121.641	2121.637	2121.644	2121.633
2121.733	2121.731	2121.736	2121.723
5 2122.449	5 2122.446	5 2122.450	5 2121.888
2122.748	2122.833	2122.839	2122.438
2122.838	2123.168	2123.172	2122.824
2123.171	2123.616	2123.620	2123.162
2123.621	2123.690	2123.692	2123.605
10 2123.692	10 2124.282	10 2124.039	10 2123.685
2124.286	2124.878	2124.287	2124.030
2124.885	2126.124	2126.129	2124.265
2126.127	2127.152	2127.161	2124.861
2127.157	2127.671	2127.360	2126.122
15 2127.678	15 2128.441	15 2127.682	15 2127.150
2128.769	2128.760	2128.333	2127.352
2129.712	2129.504	2128.446	2127.666
2130.233	2129.709	2128.769	2128.328
	2130.236	2129.512	2128.437
		20 2129.714	20 2128.754
		2130.041	2129.501
		2130.228	2129.704
			2130.028
			2130.193

570

A	B	C	D
2110.345	2110.341	2110.349	2110.128
2111.538	2111.625	2111.630	2110.337
2111.629	2113.800	2113.805	2111.617
2113.803	2114.008	2114.011	2113.796
2114.310	2114.307	2114.314	2114.004
2114.424	2114.417	2114.423	2114.399
2114.521	2114.518	2114.637	2114.623
2114.637	2114.631	2114.975	2115.062
2114.995	2114.977	2115.627	2115.609
2115.625	2115.617	2116.005	2115.997
2116.004	2116.000	2116.220	2116.210
2116.217	2116.214	2116.333	2116.321
2116.333	2116.329	2118.572	2118.562
2116.423	2119.223	2119.228	2119.219
2119.226	2119.380	2119.387	2119.376
2119.384	2119.669	2119.676	2119.668
2119.676	2120.234	2120.184	2120.172
2120.230			

	A	B	C	D
	2250.468	2250.448	2250.459	2250.439
	2251.418	2251.415	2251.015	2250.998
	2251.680	2251.670	2251.420	2251.409
	2251.866	2251.863	2251.681	2251.562
5	2252.295	5 2252.290	5 2251.867	5 2251.663
	2253.189	2253.190	2252.118	2251.855
	2253.643	2253.636	2252.295	2252.111
	2254.125	2254.594	2252.871	2252.284
	2254.602	2255.293	2253.191	2252.653
10	2254.987	10 2255.381	10 2253.644	10 2252.861
	2255.298	2255.576	2253.751	2253.187
	2255.388	2256.446	2254.126	2253.631
	2255.448	2256.605	2254.603	2253.733
	2255.581	2256.695	2254.783	2253.823
15	2255.912	15 2256.754	15 2254.990	15 2254.113
	2256.450	2257.449	2255.298	2254.246
	2256.612	2258.680	2255.392	2254.586
	2256.694	2258.763	2255.583	2254.762
	2256.765	2258.833	2255.912	2254.978
20	2257.454	20 2259.170	20 2256.452	20 2255.284
	2257.660	2259.394	2256.615	2255.360
	2258.535	2260.263	2256.768	2255.571
	2258.684		2257.454	2255.903
	2258.766		2257.665	2256.272
25	2258.835		25 2258.534	25 2256.444
	2259.179		2258.688	2256.600
	2259.401		2258.765	2256.754
	2260.267		2259.177	2257.443
			2259.402	2257.849
			30 2260.028	30 2258.677
				2259.162
				2259.392
				2260.256

A	B	C	D
2260.268	2260.270	2260.270	2260.254
2260.546	2260.543	2260.549	2260.541
2261.271	2260.817	2260.823	2260.813
2261.974	2261.266	2261.272	2261.263
2262.842	2263.114	2261.976	2261.964
2263.122	2264.942	2262.844	2262.833
2263.670	2265.305	2263.125	2263.109
2264.519	2266.745	2263.670	2263.652
2264.946	2268.526	2263.981	2263.970
2265.309	2269.674	2264.520	2264.502
2266.751		2264.948	2264.938
2268.530		2265.309	2265.299
2269.674		2266.169	2266.153
		2266.752	2266.739
		2267.874	2267.866
		2268.532	2268.521
		2268.856	2268.838
		2269.676	2269.664

	A	B	C	D
	2270.283	2270.277	2270.285	2270.274
	2270.766	2270.761	2270.768	2270.758
	2271.722	2271.717	2271.722	2271.707
	2272.020	2272.010	2272.021	2272.003
5	2272.406	5 2272.399	5 2272.409	5 2272.393
	2272.987	2272.982	2272.987	2272.972
	2273.063	2273.058	2273.065	2273.049
	2273.725	2273.718	2273.728	2273.714
	2274.323	2274.315	2274.322	2274.313
10	2274.426	10 2274.418	10 2274.426	10 2274.411
	2274.707	2274.703	2274.707	2274.693
	2274.853	2274.849	2274.854	2274.836
	2275.015	2275.012	2275.018	2275.004
	2275.409	2275.403	2275.410	2275.400
15	2277.071	15 2275.515	15 2275.526	15 2275.516
	2277.436	2276.544	2276.331	2276.316
	2277.533	2277.065	2276.548	2276.538
	2277.790	2277.525	2276.648	2276.641
	2278.054	2278.051	2277.074	2277.060
20	2278.712	20 2278.705	20 2277.433	20 2277.517
	2279.245	2279.960	2277.534	2277.781
	2279.832		2277.793	2278.044
	2279.976		2278.055	2278.698
			2278.547	2278.939
			25 2278.713	25 2279.235
			2278.950	2279.825
			2279.246	2279.957
			2279.833	
			2279.978	

585

	A	B	C	D
	2280.323	2280.316	2280.324	2280.313
	2280.671	2281.548	2280.672	2280.661
	2281.389	2281.779	2280.949	2280.940
	2281.551	2281.909	2281.222	2281.212
5	2281.785	2282.213	2281.391	2281.381
	2281.913	2283.455	2281.553	2281.542
	2282.218	2284.049	2281.785	2281.769
	2282.478	2284.252	2281.913	2281.903
	2282.783	2284.441	2282.064	2282.032
10	2283.461	2284.583	2282.221	2282.210
	2284.054	2285.781	2282.480	2282.463
	2284.149	2286.913	2282.784	2282.773
	2284.258	2287.291	2283.465	2282.924
	2284.587	2287.883	2284.054	2283.275
15	2284.707	2288.774	2284.147	2283.450
	2284.808	2289.094	2284.260	2284.044
	2285.497	2289.234	2284.443	2284.137
	2285.790	2289.887	2284.589	2284.249
	2286.141	2290.151	2284.708	2284.438
20	2286.919	2290.232	2284.811	2284.572
	2287.299		2285.022	2284.692
	2287.447		2285.499	2284.795
	2287.889		2285.700	2285.013
	2288.115		2285.791	2285.387
25	2288.778		2286.064	2285.490
	2289.095		2286.140	2285.682
	2289.241		2286.635	2285.774
	2289.892		2286.921	2286.047
	2290.159		2287.299	2286.131
30	2290.237		2287.454	2286.367
			2287.891	2286.618
			2288.116	2286.909
			2288.474	2287.078
			2288.779	2287.283
35			2289.096	2287.442
			2289.243	2287.877
			2289.385	2288.104
			2289.540	2288.457
			2289.659	2288.766
40			2289.892	2289.083
			2290.157	2289.232
			2290.239	2289.378
				2289.532
				2289.650
45				2289.876
				2290.142

	A	B	C	D
	2290.159	2290.151	2290.157	2290.142
	2290.237	2290.232	2290.239	2290.523
	2290.984	2290.981	2290.542	2290.626
	2291.067	2291.062	2290.636	2290.982
5	2291.248	2291.247	2290.988	2291.045
	2291.541	2291.536	2291.066	2291.233
	2291.673	2291.669	2291.249	2291.527
	2292.216	2292.217	2291.543	2291.665
	2293.087	2293.083	2291.674	2292.212
10	2293.380	2293.370	2292.221	2292.435
	2293.807	2293.799	2292.451	2292.559
	2294.115	2294.098	2292.574	2293.076
	2294.349	2294.470	2293.089	2293.366
	2294.475	2295.486	2293.383	2293.591
15	2295.107	2295.834	2293.603	2293.793
	2295.492	2296.042	2293.808	2294.099
	2295.839	2296.440	2293.898	2294.332
	2296.049	2296.721	2294.111	2294.466
	2296.446	2297.176	2294.350	2294.790
20	2296.728	2297.569	2294.476	2295.097
	2297.103	2297.969	2294.806	2295.237
	2297.574	2298.266	2295.108	2295.477
	2297.977	2298.499	2295.254	2295.569
	2298.271	2298.950	2295.493	2295.830
25	2298.509	2299.419	2295.583	2296.040
	2298.968	2299.634	2295.842	2296.434
	2299.120	2299.781	2296.052	2296.711
	2299.637	2300.073	2296.448	2297.050
	2299.787		2296.579	2297.171
30	2299.922		2296.728	2297.438
	2300.078		2297.185	2297.559
			2297.456	2297.964
			2297.575	2298.261
			2297.973	2298.500
35			2298.273	2298.957
			2298.511	2299.113
			2298.966	2299.411
			2299.121	2299.495
			2299.419	2299.627
40			2299.508	2299.777
			2299.639	2299.906
			2299.789	2300.064
			2299.924	
			2300.079	

A	B	C	D
2300.079	2300.464	2300.079	2300.064
2300.470	2300.717	2300.472	2300.457
2300.722	2301.049	2300.579	2300.560
2300.868	2301.671	2300.730	2300.714
5 2301.056	5 2302.302	5 2300.868	5 2300.860
2301.429	2302.627	2301.059	2301.045
2301.676	2303.521	2301.429	2301.410
2301.802	2303.680	2301.677	2301.665
2301.973	2304.086	2301.806	2301.796
10 2302.306	10 2304.773	10 2301.973	10 2301.960
2302.635	2305.184	2302.307	2302.293
2302.900	2305.676	2302.635	2302.369
2303.328	2305.879	2303.328	2302.612
2303.524	2306.599	2303.525	2302.879
15 2303.688	15 2306.897	15 2303.689	15 2303.310
2304.090	2307.436	2304.090	2303.515
2304.283	2307.641	2304.284	2303.674
2304.625	2308.164	2304.624	2303.815
2304.790	2308.558	2304.784	2304.081
20 2305.198	20 2309.018	20 2305.199	20 2304.269
2305.512	2309.583	2305.511	2304.610
2305.681	2310.052	2305.682	2304.736
2305.892	2310.207	2305.891	2305.183
2306.145		2306.146	2305.503
25 2306.419		25 2306.419	25 2305.670
2306.606		2306.608	2305.869
2306.918		2306.895	2306.134
2307.315		2307.317	2306.410
2307.442		2307.442	2306.593
30 2307.645		30 2307.647	30 2306.904
2307.982		2307.984	2307.427
2308.165		2308.167	2307.637
2308.564		2308.565	2307.817
2309.020		2308.975	2307.975
35 2309.266		35 2309.028	35 2308.159
2309.591		2309.267	2308.552
2309.799		2309.593	2308.957
2309.994		2309.803	2309.250
2310.204		2309.996	2309.577
		40 2310.056	40 2309.784
		2310.204	2310.048
			2310.190

	A	B	C	D
	2310.204	2310.051	2310.055	2310.048
	2310.501	2310.494	2310.204	2310.190
	2310.683	2311.040	2310.352	2310.337
	2311.076	2311.500	2310.502	2310.485
5	2311.507	2311.957	2310.683	2310.667
	2311.746	2312.406	2311.077	2311.023
	2311.966	2313.085	2311.509	2311.495
	2312.411	2313.388	2311.748	2311.738
	2312.616	2314.294	2311.968	2311.953
10	2313.101	2314.566	2312.414	2312.402
	2313.399	2315.091	2312.616	2312.608
	2313.704	2316.155	2313.095	2312.844
	2314.301	2317.072	2313.399	2313.069
	2314.572	2317.991	2313.705	2313.384
15	2315.117	2318.948	2314.303	2313.695
	2316.164	2319.808	2314.571	2314.287
	2317.132	2320.167	2315.093	2314.557
	2317.672		2315.960	2315.080
	2317.997		2316.165	2315.950
20	2318.521		2316.758	2316.147
	2318.948		2317.075	2316.748
	2319.183		2317.673	2317.052
	2319.635		2317.997	2317.659
	2319.815		2318.520	2317.984
25	2320.174		2318.944	2318.508
			2319.635	2318.942
			2319.815	2319.799
			2320.174	2320.157

589

	A	B	C	D
	2320.173	2320.740	2320.174	2320.157
	2320.457	2321.229	2320.458	2320.450
	2320.747	2321.595	2320.746	2320.729
	2321.173	2322.078	2321.229	2321.171
5	2321.604	2322.514	2321.607	2321.590
	2322.082	2323.123	2322.083	2322.075
	2322.522	2323.697	2322.522	2322.507
	2322.967	2323.766	2323.349	2323.357
	2323.368	2324.265	2323.702	2323.761
10	2323.696	2324.909	2323.774	2323.947
	2323.769	2325.989	2323.965	2324.256
	2324.271	2326.714	2324.272	2325.058
	2324.488	2327.689	2324.818	2325.983
	2324.831	2328.829	2325.995	2326.779
15	2325.995	2329.368	2326.688	2326.983
	2326.743		2327.700	2327.682
	2327.699		2328.796	2328.464
	2328.532		2329.375	2329.361
	2329.373		2330.205	2330.189
20	2330.201			

A	B	C	D
2330.201	2330.403	2330.205	2330.189
2330.665	2331.019	2331.027	2331.010
2331.026	2331.842	2331.844	2331.837
2331.843	2332.592	2332.650	2332.587
2332.417	2333.460	2333.062	2333.046
2333.464	2334.281	2333.464	2333.450
2334.130	2335.054	2334.387	2334.346
2335.060	2336.125	2335.061	2335.046
2335.926	2336.541	2335.153	2336.094
2336.606	2337.834	2335.724	2336.596
2337.478	2339.562	2336.609	2337.835
2338.166		2337.476	2338.155
2338.447		2338.167	2338.432
2338.946		2338.445	2339.102
2339.294		2339.559	2340.219
		2340.238	

	A	B	C	D
	2340.458	2340.454	2340.459	2340.442
	2341.235	2341.213	2341.182	2341.268
	2341.933	2341.928	2341.933	2341.923
	2342.777	2342.838	2342.755	2342.890
5	2343.394	2343.386	2343.396	2343.376
	2343.740	2344.219	2343.740	2343.726
	2344.117	2344.815	2344.548	2344.523
	2344.826	2345.523	2344.825	2344.808
	2344.994	2346.154	2344.995	2344.978
10	2345.527	2346.911	2345.529	2345.520
	2346.060	2347.460	2346.236	2346.150
	2346.233	2347.625	2346.924	2346.911
	2346.924	2348.289	2347.539	2347.455
	2347.551	2348.628	2348.034	2348.020
15	2348.033	2348.980	2348.295	2348.278
	2348.294	2349.640	2348.637	2348.630
	2348.631	2349.878	2348.990	2348.973
	2348.988		2349.206	2349.194
	2349.205		2349.647	2349.637
20	2349.647		2349.881	2349.869
	2349.914			

592

	A	B	C	D
	2350.330	2350.319	2350.330	2350.314
	2350.968	2350.962	2350.969	2350.950
	2351.404	2351.517	2351.367	2351.495
	2352.268	2352.264	2351.633	2352.255
5	2353.047	2353.052	2352.268	2353.087
	2353.541	2353.533	2353.078	2353.526
	2354.503	2354.557	2353.543	2354.752
	2354.787	2355.426	2354.598	2356.101
	2355.430	2356.072	2355.429	2356.634
10	2356.060	2356.635	2356.114	2357.808
	2356.641	2357.460	2356.643	2359.035
	2357.449	2358.998	2357.461	2360.128
	2357.826	2360.163	2357.826	
	2358.918		2358.896	
15	2359.546		2359.547	
	2360.165		2360.198	

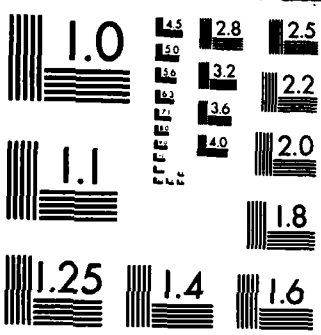
A	B	C	D
2360.672	2361.671	2360.671	2361.760
2361.639	2362.931	2361.716	2363.022
2362.339	2364.318	2363.019	2364.376
2362.919	2365.563	2363.395	2365.532
2363.393	2366.821	2364.311	2366.839
2364.258	2367.968	2365.615	2367.972
2365.497	2369.238	2365.924	2369.257
2365.924	2370.167	2366.823	2370.177
2366.730		2368.027	
2368.001		2369.238	
2368.963		2370.172	
2369.152			
2370.208			

A	B	C	D
2370.348	2370.324	2370.328	2370.256
2371.343	2371.413	2371.526	2371.442
2372.471	2372.432	2372.609	2372.411
2373.594	2373.553	2373.575	2372.542
5 2374.691	5 2374.649	5 2373.720	5 2373.539
2375.761	2375.717	2374.691	2374.669
2376.807	2376.771	2375.789	2375.708
2377.827	2377.817	2375.857	2376.748
2378.816	2378.797	2376.847	2377.816
10 2379.776	10 2379.761	10 2377.855	10 2378.777
		2378.820	2379.756
		2379.778	

A	B	C	D
2380.708	2380.699	2380.710	2380.689
2381.615	2381.607	2381.617	2381.600
2382.494	2382.489	2382.497	2382.483
2383.353	2383.344	2383.355	2383.337
5 2384.181	5 2384.176	5 2384.183	5 2384.172
2384.990	2384.982	2384.991	2384.975
2385.771	2385.760	2385.772	2385.755
2386.525	2386.516	2386.526	2386.509
2387.252	2387.246	2387.253	2387.241
10 2387.953	10 2387.948	10 2387.956	10 2387.945
2388.636	2388.631	2388.637	2388.621
2389.289	2390.137	2389.291	2389.274
2390.255		2389.534	2389.514
		2389.914	2389.904
		15 2390.258	15 2390.153

AD-A151 757 AN ATLAS OF PURE WATER VAPOR SPECTRA FROM 500 TO 5000/CM VOLUME 2..(U) OHIO STATE UNIV COLUMBUS ELECTROSCIENCE LAB R K LONG ET AL. SEP 84 3/5

UNCLASSIFIED ESL-713774-3-VOL-2 ARO-17603.4-GS F/G 7/4 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

A	B	C	D
2400.199	2393.590 2400.077	2393.599 2400.002	2390.505 2391.086 2393.582 2399.980

599

A	B	C	D
2410.216	2407.157	2405.513	2405.501
	2410.227	2407.165	2405.798
		2410.192	2407.148
			2410.199

022

A	B	C	D
2420.233	2420.185	2420.237	2420.240

023

A	B	C	D
2430.225	2429.921	2422.706	2422.687
	2430.135	2429.928	2429.916
		2430.197	2430.222

A	B	C	D
2440.139	2437.392	2437.252	2437.240
	2440.135	2437.396	2437.384
		2440.150	2440.230

025

A	B	C	D
2450.120	2450.246	2440.415 2450.244	2440.403 2446.644 2450.122

A	B	C	D
2460.163	2460.193	2460.220	2451.944 2460.248

A	B	C	D
2470.223	2470.154	2469.210 2470.237	2463.858 2469.192 2470.229

A	B	C	D
2480.208	2480.089	2471.116 2480.196	2471.105 2480.207

A	B	C	D
2490.249	2490.193	2482.606	2482.592
		2485.621	2483.063
		2490.249	2485.607
			2490.215

A	B	C	D
2500.241	2500.116	2497.243	2497.233
		2497.686	2497.672
		2500.191	2499.742
			2500.184

C31

2510.169

2510.070

2502.295
2504.823
2510.194

2502.276
2502.657
2504.802
2505.699
5 2508.788
2510.193

A	B	C	D
2641.990	2641.985	2640.010	2641.973
2642.203	2642.198	2641.991	2642.187
2642.560	2642.552	2642.204	2642.541
2644.461	2643.417	2642.561	2643.411
5 2649.343	5 2644.455	5 2643.427	5 2644.443
2650.165	2647.567	2644.461	2646.087
	2648.260	2646.102	2646.596
	2649.337	2646.610	2647.557
	2650.123	2647.573	2648.251
		10 2648.266	10 2649.324
		2649.099	2650.163
		2649.343	
		2650.233	

A	B	C	D
2635.585	2635.579	2635.588	2630.942
2635.671	2637.024	2637.031	2635.571
2637.351	2637.345	2637.351	2637.020
2638.551	2638.542	2638.552	2637.333
5 2638.719	5 2638.712	5 2638.720	5 2638.534
2638.804	2640.005	2640.011	2638.704
2640.117		2640.220	2639.998
			2640.217

A	B	C	D
2621.724	2621.718	2621.726	2621.711
2621.810	2622.096	2622.103	2622.084
2622.102	2622.563	2622.570	2622.554
2622.854	2622.846	2622.854	2622.836
5 2623.975	5 2623.971	5 2623.977	5 2623.962
2624.541	2624.533	2624.542	2624.523
2624.939	2624.937	2624.941	2624.936
2625.005	2624.999	2625.005	2625.224
2625.437	2625.428	2625.237	2625.421
10 2625.517	10 2628.446	10 2625.439	10 2628.437
2628.455	2630.201	2628.457	2629.692
2628.531		2629.704	2630.255
2630.208		2629.845	
		2630.150	

A	B	C	D
2612.531	2612.526	2611.982	2612.519
2612.619	2619.750	2612.534	2619.740
2619.755	2620.215	2619.756	2620.243
2620.217		2620.209	

A	B	C	D
2600.857	2600.850	2600.858	2600.840
2605.173	2605.169	2604.660	2604.651
2606.301	2606.293	2605.174	2605.160
2606.383	2606.498	2606.303	2606.286
5 2606.500	5 2607.099	5 2606.502	5 2606.490
2607.103	2607.183	2607.106	2607.096
2607.188	2607.439	2607.188	2607.165
2607.445	2607.611	2607.448	2607.433
2607.615	2608.153	2607.617	2607.602
10 2608.156	10 2608.277	10 2608.157	10 2608.146
2608.282	2610.221	2608.284	2608.269
2608.369		2610.150	2610.252
2610.247			

A	B	C	D
2590.822	2590.813	2590.823	2590.803
2591.214	2591.205	2591.214	2591.194
2593.237	2593.233	2591.604	2591.585
2593.610	2593.604	2593.239	2593.222
5 2596.731	5 2596.724	5 2593.613	5 2593.599
2600.225	2600.228	2596.731	2596.712
		2600.167	2600.194

A	B	C	D
2581.037	2581.033	2581.038	2581.024
2582.298	2582.293	2582.299	2582.282
2585.428	2585.420	2585.429	2585.409
2588.995	2588.853	2588.864	2588.844
5 2589.324	5 2588.991	5 2588.997	5 2588.985
2589.568	2589.321	2589.326	2589.313
2590.196	2589.563	2589.570	2589.557
	2590.192	2590.193	2590.181

A	B	C	D
2570.130	2570.125	2570.130	2570.118
2571.426	2570.883	2570.891	2570.878
2573.509	2571.218	2571.151	2571.138
2576.658	2571.423	2571.226	2571.211
2578.597	2573.504	2571.429	2571.417
2578.804	2576.648	2573.512	2573.499
2580.144	2578.593	2576.659	2576.639
	2578.800	2578.599	2578.586
	2580.191	2578.805	2578.788
		2580.190	2580.160

A	B	C	D
2562.292	2562.288	2562.293	2562.278
2563.735	2563.728	2563.736	2563.720
2563.840	2563.833	2563.843	2563.827
2564.282	2564.278	2564.283	2564.270
5 2565.123	5 2565.119	5 2565.124	5 2565.108
2565.441	2565.434	2565.444	2565.427
2570.130	2570.125	2567.295	2567.277
2570.225	2570.221	2570.130	2569.787
		2570.219	2570.118

A	B	C	D
2553.100	2550.491	2550.502	2550.483
2556.308	2552.579	2552.587	2552.569
2560.210	2553.097	2552.777	2552.767
	2556.302	2553.102	2553.087
	5 2560.163	5 2556.311	5 2556.296
		2560.187	2560.225

A	B	C	D
2544.662	2544.655	2544.662	2544.399
2546.986	2546.982	2546.987	2544.645
2547.818	2547.809	2547.819	2546.974
2548.712	2548.700	2548.657	2547.801
5 2549.899	5 2549.889	5 2548.708	5 2548.651
2550.212	2550.252	2549.900	2549.881
		2550.244	2550.236

A	B	C	D
2530.527	2530.518	2530.030	2530.018
2533.396	2533.061	2530.527	2530.509
2540.252	2533.393	2533.066	2533.054
	2534.354	2533.398	2533.385
	2539.260	2534.023	2533.995
	2540.259	2534.359	2534.341
		2534.681	2534.663
		2539.268	2538.336
		2540.251	2539.248
			2540.253

A	B	C	D
2530.250	2524.449	2522.399	2520.195
	2530.197	2524.457	2522.384
		2530.030	2524.444
		2530.247	2530.017
			5 2530.200

A	B	C	D
2520.204	2520.199	2510.521	2510.501
		2514.863	2510.932
		2516.261	2514.149
		2517.935	2514.846
		5 2518.006	5 2516.245
		2518.776	2517.918
		2520.205	2518.758
			2520.195

	A		B		C		D
	2651.816		2651.812		2651.817		2651.799
	2655.452		2652.603		2652.611		2652.596
	2657.326		2654.238		2654.250		2653.357
	2659.266		2655.443		2655.453		2654.230
5	2659.434	5	2657.319	5	2657.327	5	2655.434
	2660.128		2659.261		2658.051		2657.307
	2660.195		2659.427		2659.268		2658.030
			2659.759		2659.436		2659.254
			2660.116		2659.768		2659.417
		10	2660.200	10	2660.126	10	2659.749
							2660.105

A	B	C	D
2660.128	2660.117	2660.127	2660.105
2660.504	2660.498	2660.507	2660.491
2660.591	2660.645	2660.645	2660.996
2660.647	2663.272	2662.025	2662.004
2663.279	2664.782	2663.280	2663.263
2663.363	2666.276	2664.793	2664.773
2664.792	2670.165	2666.282	2666.265
2666.281		2669.777	2669.762
2670.174		2669.998	2669.985
		2670.139	2670.202

A	B	C	D
2672.585	2672.580	2671.047	2671.037
2672.673	2673.054	2671.397	2671.377
2673.056	2674.541	2672.369	2672.572
2674.546	2675.183	2672.588	2673.041
2675.192	2675.986	2673.059	2674.532
2676.533	2676.361	2674.547	2675.173
2676.620	2676.527	2675.193	2675.978
2677.713	2677.706	2675.993	2676.520
2677.796	2680.078	2676.372	2677.698
2680.138		2676.535	2678.545
		2677.715	2678.678
		2678.564	2680.122
		2678.695	
		2680.077	

A	B	C	D
2680.746	2680.742	2680.749	2680.732
2681.041	2681.036	2681.044	2681.027
2685.958	2681.801	2681.808	2681.794
2686.555	2684.666	2682.881	2682.862
5 2688.363	5 2685.954	5 2684.676	5 2684.659
2689.778	2686.201	2685.959	2685.944
2690.087	2686.545	2686.208	2686.195
	2687.250	2686.556	2686.537
	2687.631	2687.258	2687.243
	10 2688.355	10 2687.638	10 2687.618
	2689.770	2688.363	2688.343
	2690.203	2689.779	2689.759
		2690.248	2690.205

A	B	C	D
2692.736	2692.731	2692.737	2692.719
2693.326	2693.318	2693.330	2693.311
2693.488	2693.482	2693.489	2693.469
2694.697	2694.693	2694.699	2694.684
5 2695.197	5 2695.188	5 2695.198	5 2695.178
2696.205	2696.200	2696.207	2696.193
2698.518	2698.154	2698.159	2698.143
2699.413	2698.511	2698.519	2698.500
2700.188	2699.405	2699.416	2699.397
	10 2700.209	10 2700.152	10 2700.240

722

A	B	C	D
2702.137	2702.131	2702.139	2702.122
2703.081	2703.075	2703.084	2702.343
2706.204	2704.439	2704.451	2703.069
2707.093	2706.199	2704.605	2704.431
5 2708.165	5 2707.085	5 2705.501	5 2704.586
2709.336	2707.608	2706.205	2705.124
2710.028	2707.920	2706.359	2705.482
2710.157	2708.161	2706.944	2706.188
	2709.096	2707.097	2706.343
	10 2709.330	10 2707.619	10 2707.076
	2710.021	2707.733	2707.599
	2710.161	2707.925	2707.713
		2708.167	2707.907
		2708.685	2708.151
		15 2708.882	15 2708.674
		2709.101	2708.862
		2709.337	2709.085
		2710.029	2709.318
		2710.168	2710.007

	A	B	C	D
	2710.029	2710.021	2710.029	2710.007
	2710.336	2710.330	2710.334	2710.314
	2710.479	2710.470	2710.480	2710.459
	2710.945	2710.940	2710.948	2710.934
5	2711.529	2711.521	2711.532	2711.512
	2712.734	2711.608	2711.619	2711.599
	2713.202	2712.725	2711.685	2712.298
	2713.862	2713.197	2712.738	2712.717
	2714.522	2713.859	2713.203	2713.189
10	2714.840	2714.519	2713.864	2713.849
	2714.957	2714.833	2714.523	2714.508
	2715.060	2714.949	2714.844	2714.826
	2715.397	2715.059	2714.961	2714.942
	2715.949	2715.394	2715.066	2715.049
15	2716.262	2715.943	2715.398	2715.383
	2716.796	2716.253	2715.951	2715.935
	2716.903	2716.790	2716.264	2716.244
	2717.445	2716.899	2716.800	2716.783
	2717.739	2717.440	2716.905	2716.888
20	2717.813	2717.729	2717.170	2717.126
	2718.539	2718.533	2717.447	2717.433
	2718.652	2718.646	2717.740	2717.720
	2718.763	2718.756	2718.542	2718.529
	2719.105	2719.101	2718.654	2718.636
25	2719.619	2719.615	2719.106	2719.093
	2719.975	2719.970	2719.622	2719.608
	2720.125	2720.118	2719.976	2719.959
	2720.214		2720.125	2720.106

	A	B	C	D
	2720.125	2720.119	2720.125	2720.106
	2720.317	2720.310	2720.316	2720.303
	2720.486	2720.483	2720.490	2720.479
	2720.548	2720.820	2720.544	2720.815
5	2720.823	2720.907	2720.827	2720.888
	2720.911	2721.689	2720.911	2721.684
	2721.694	2721.882	2721.696	2721.870
	2721.878	2722.650	2721.885	2722.637
	2722.001	2722.891	2722.656	2722.875
10	2722.656	2723.321	2722.896	2723.311
	2722.897	2723.667	2723.328	2723.753
	2723.326	2723.766	2723.677	2724.184
	2723.416	2724.194	2723.772	2724.770
	2723.673	2724.779	2724.200	2725.656
15	2723.771	2725.668	2724.791	2726.134
	2724.198	2726.147	2725.673	2726.601
	2724.791	2728.045	2726.153	2727.063
	2725.672	2729.659	2726.615	2727.500
	2726.152	2729.887	2727.086	2727.842
20	2728.050	2730.080	2727.516	2728.032
	2729.669		2727.860	2728.982
	2729.891		2728.051	2729.649
	2730.222		2728.996	2729.876
			2729.669	2730.070
25			2729.893	
			2730.091	

A	B	C	D
2730.918	2730.914	2730.091	2730.070
2732.485	2732.481	2730.920	2730.904
2735.673	2735.399	2731.248	2731.228
2736.104	2735.667	2732.487	2732.471
5 2737.097	5 2736.099	5 2735.403	5 2735.387
2738.044	2737.092	2735.674	2735.655
2738.764	2738.035	2736.106	2736.091
2738.908	2738.753	2736.671	2736.653
2739.475	2738.902	2737.099	2737.084
10 2740.195	10 2739.471	10 2738.045	10 2738.025
	2739.589	2738.762	2738.748
	2740.216	2738.910	2738.895
		2739.478	2739.466
		2739.595	2739.575
		15 2740.213	15 2740.225

A	B	C	D
2743.931	2743.927	2743.569	2743.547
2744.956	2744.952	2743.932	2743.915
2747.400	2747.396	2744.141	2744.122
2747.610	2747.605	2744.281	2744.261
5 2749.909	5 2749.903	5 2744.957	5 2744.938
2750.184	2750.166	2747.401	2747.385
		2747.610	2747.591
		2748.216	2748.206
		2749.912	2749.897
		10 2750.210	10 2750.172

A	B	C	D
2750.496	2750.489	2750.497	2750.475
2751.334	2751.325	2751.336	2751.316
2751.422	2751.418	2751.428	2751.983
2752.003	2751.994	2752.003	2752.187
2752.329	2752.191	2752.197	2752.311
2753.098	2752.323	2752.333	2752.979
2753.538	2752.983	2752.994	2753.086
2753.662	2753.093	2753.100	2753.520
2756.555	2753.531	2753.539	2755.964
2757.366	2753.651	2755.982	2756.540
2758.081	2755.979	2756.557	2757.351
2758.743	2756.550	2757.369	2758.063
2760.212	2757.363	2758.083	2758.728
	2758.073	2758.746	2759.421
	2758.735	2759.277	2760.199
	2760.108	2759.444	
		2760.214	

A	B	C	D
2762.253	2762.250	2762.255	2761.473
2764.539	2764.531	2764.539	2762.240
2765.110	2765.103	2765.112	2764.519
2766.498	2766.493	2766.500	2765.091
2767.261	2767.256	2767.264	2766.481
2767.349	2768.614	2768.622	2767.247
2768.619	2769.883	2769.894	2768.606
2769.891	2770.209	2770.146	2769.875
2769.972			2770.184
2770.209			

A	B	C	D
2771.603	2770.717	2770.723	2770.708
2772.251	2771.596	2771.355	2771.335
2777.289	2772.243	2771.604	2771.589
2778.135	2777.285	2772.251	2772.231
5 2779.958	5 2778.132	5 2777.291	5 2777.273
2780.212	2779.950	2778.137	2778.124
	2780.211	2779.960	2778.470
			2779.940

2782.708	2782.701	2782.709	2780.993
2783.198	2783.193	2783.199	2782.689
2783.347	2783.343	2783.348	2783.185
2783.709	2783.705	2783.711	2783.332
5 2785.333	5 2785.328	5 2784.765	5 2783.697
2785.650	2785.642	2785.333	2784.745
2785.733	2787.318	2785.653	2785.314
2787.322	2787.930	2786.216	2785.634
2788.806	2788.801	2786.354	2786.202
10 2789.480	10 2789.477	10 2787.323	10 2787.304
2789.582	2789.577	2787.939	2787.922
2790.217	2790.155	2788.808	2788.793
		2789.583	2789.564
		2790.156	2790.186

2920.934	2920.931	2920.938	2920.178
2922.104	2921.236	2921.248	2920.924
2924.250	2921.385	2921.396	2921.229
2924.635	2922.099	2921.526	2921.380
5 2925.176	5 2922.203	5 2921.899	5 2921.500
2926.448	2922.373	2922.106	2922.088
2928.744	2922.571	2922.213	2922.193
2930.121	2924.246	2922.381	2922.374
2930.214	2924.628	2922.583	2922.560
	10 2925.169	10 2922.872	10 2922.856
	2926.444	2924.253	2924.238
	2928.738	2924.636	2924.618
	2930.115	2924.827	2924.813
		2925.177	2925.155
		15 2925.515	15 2925.500
		2926.185	2926.162
		2926.450	2926.433
		2926.896	2926.878
		2927.349	2927.332
		20 2927.916	20 2927.887
		2928.472	2928.729
		2928.748	2930.092
		2929.092	
		2930.123	

A	B	C	D
2910.775	2910.770	2910.776	2910.104
2911.323	2911.319	2911.327	2910.755
2911.887	2911.882	2911.470	2911.311
2911.948	2912.367	2911.563	2911.448
5 2912.270	5 2912.458	5 2911.890	5 2911.545
2912.462	2913.719	2912.373	2911.868
2913.223	2916.467	2912.463	2912.442
2917.402	2917.396	2913.345	2913.327
2918.984	2918.551	2913.726	2913.704
10 2919.178	10 2918.977	10 2914.529	10 2914.085
2920.207	2919.167	2915.599	2914.509
	2920.168	2916.473	2915.584
		2917.403	2916.453
		2918.559	2916.890
		15 2918.986	15 2917.382
		2919.177	2917.875
		2920.198	2918.545
			2918.966
			2919.153
			20 2920.179

	A	B	C	D
	2901.375	2901.013	2900.622	2900.603
	2901.831	2901.370	2900.767	2900.743
	2902.338	2901.496	2901.022	2901.005
	2902.518	2901.826	2901.375	2901.356
5	2903.213	2902.333	2901.505	2901.490
	2904.831	2902.511	2901.833	2901.814
	2904.415	2902.875	2902.338	2902.316
	2905.832	2903.209	2902.518	2902.496
	2906.718	2903.417	2902.884	2902.870
10	2906.804	2904.424	2903.215	2903.198
	2907.947	2905.828	2903.425	2903.411
	2908.177	2906.711	2904.434	2904.412
	2909.428	2907.941	2905.834	2905.814
	2909.688	2908.033	2906.195	2906.181
15	2910.239	2908.164	2906.720	2906.701
		2909.422	2907.951	2907.280
		2909.681	2908.037	2908.021
		2910.237	2908.177	2908.154
			2908.545	2908.523
20			2908.738	2908.723
			2909.429	2909.413
			2909.688	2909.667
			2910.229	2910.105

A	B	C	D
2890.183	2890.172	2890.181	2890.159
2891.009	2890.886	2890.800	2890.878
2893.068	2891.002	2890.892	2890.992
2893.494	2892.284	2891.011	2891.550
2893.809	2893.062	2891.847	2891.824
2900.194	2893.483	2892.303	2892.289
	2893.801	2893.072	2893.054
	2896.242	2893.493	2893.476
	2897.875	2893.806	2893.772
	2899.374	2896.249	2896.229
	2900.114	2897.880	2897.101
		2899.291	2897.855
		2899.383	2899.266
		2899.535	2899.513
		2900.137	2900.133

A	B	C	D
2881.226	2881.219	2881.229	2881.211
2881.441	2881.432	2881.444	2881.426
2883.022	2883.017	2883.023	2882.100
2883.821	2883.813	2883.825	2883.002
5 2889.417	5 2884.906	5 2884.344	5 2883.806
2889.620	2885.369	2884.443	2884.322
2889.728	2888.173	2884.781	2884.765
2890.183	2889.411	2884.910	2884.892
	2889.615	2885.375	2885.009
	10 2889.719	10 2885.930	10 2885.354
	2890.172	2886.554	2885.910
		2887.211	2886.558
		2888.177	2887.188
		2889.418	2888.159
		15 2889.621	15 2889.403
		2889.731	2889.711
		2890.181	2890.159

A	B	C	D
2870.573	2870.566	2870.575	2870.553
2870.857	2870.851	2870.858	2870.839
2871.326	2871.317	2871.119	2871.305
2871.815	2871.812	2871.327	2871.799
5 2873.012	5 2873.003	5 2871.817	5 2872.992
2874.948	2873.718	2873.014	2873.708
2875.790	2874.939	2873.145	2874.266
2876.549	2875.784	2873.726	2874.659
2877.859	2876.300	2874.946	2874.925
10 2879.137	10 2876.546	10 2875.791	10 2875.770
2879.258	2876.951	2876.104	2876.087
2879.604	2877.347	2876.305	2876.285
2879.703	2877.850	2876.552	2876.538
2880.014	2878.575	2876.961	2876.938
	15 2879.134	15 2877.355	15 2877.334
	2879.253	2877.629	2877.613
	2879.694	2877.862	2877.840
	2880.135	2878.588	2878.565
		2879.139	2879.123
		20 2879.259	20 2879.241
		2879.488	2879.682
		2879.704	2880.227
		2880.190	

A	B	C	D
2860.605	2860.600	2860.606	2860.588
2862.431	2861.447	2860.998	2860.986
2863.256	2862.420	2861.453	2861.433
2864.344	2863.253	2861.805	2861.783
5 2865.293	5 2863.530	5 2861.969	5 2861.956
2865.696	2864.339	2862.423	2862.145
2866.321	2865.288	2863.259	2862.402
2866.937	2865.692	2863.536	2863.241
2867.173	2866.310	2864.346	2863.521
10 2868.088	10 2866.932	10 2865.297	10 2864.327
2869.035	2867.169	2865.696	2865.280
2870.171	2868.081	2866.324	2865.652
	2869.029	2866.939	2866.309
	2870.042	2867.175	2866.923
		15 2868.091	15 2867.155
		2869.036	2868.073
		2870.104	2869.014
			2869.832
			2870.098

A	B	C	D
2850.484	2850.480	2850.486	2850.205
2850.667	2850.661	2850.668	2850.469
2850.805	2850.795	2850.805	2850.652
2851.864	2851.172	2850.927	2850.782
5 2854.376	5 2851.379	5 2851.180	5 2851.163
2854.672	2851.858	2851.385	2851.366
2855.360	2854.372	2851.865	2851.845
2855.433	2854.668	2854.380	2854.364
2855.872	2855.356	2854.675	2854.659
10 2855.928	10 2855.427	10 2855.361	10 2855.342
2857.434	2855.872	2855.437	2855.418
2858.555	2857.424	2855.883	2855.091
2858.746	2858.551	2857.435	2857.413
2860.161	2858.740	2858.556	2858.537
	15 2860.088	15 2858.749	15 2858.731
		2859.159	2859.143
		2859.619	2859.608
		2860.195	2860.178

	A	B	C	D
	2840.102	2840.091	2840.105	2840.083
	2840.419	2840.417	2840.421	2840.405
	2841.048	2841.042	2841.048	2841.023
	2841.439	2841.434	2841.440	2841.420
5	2841.563	2841.559	2841.565	2841.548
	2842.553	2842.548	2842.326	2842.533
	2843.128	2843.125	2842.554	2843.114
	2844.003	2843.818	2843.130	2843.988
	2845.071	2843.999	2843.215	2845.057
10	2845.173	2845.064	2843.825	2845.154
	2845.331	2845.167	2844.005	2845.316
	2845.715	2845.327	2845.075	2845.693
	2845.804	2845.707	2845.175	2845.783
	2846.873	2845.796	2845.333	2846.492
15	2848.244	2846.866	2845.714	2846.859
	2848.449	2847.044	2845.805	2847.035
	2848.793	2848.233	2846.020	2848.220
	2850.216	2848.442	2846.510	2848.432
		2848.789	2846.874	2848.776
20		2849.094	2847.050	2849.034
		2850.207	2848.244	2850.206
			2848.452	
			2848.654	
			2848.795	
25			2849.040	
			2849.098	
			2850.221	

855

	A	B	C	D
	2830.087	2831.828	2830.348	2830.330
	2831.833	2832.493	2831.834	2831.817
	2832.500	2833.700	2832.503	2832.483
	2833.706	2834.038	2832.989	2832.969
5	2834.715	2834.199	2833.709	2833.692
	2835.015	2834.706	2834.049	2834.032
	2836.013	2835.006	2834.206	2834.184
	2837.681	2836.007	2834.327	2834.694
	2837.974	2837.676	2834.715	2834.994
10	2838.155	2837.969	2835.016	2835.384
	2838.479	2838.151	2835.406	2835.994
	2839.779	2838.470	2836.014	2837.668
	2840.103	2839.771	2837.683	2837.954
	2840.238	2840.091	2837.975	2838.137
15		2840.236	2838.157	2838.459
			2838.480	2839.760
			2839.780	2840.083
			2840.105	2840.206
			2840.238	

854

	A	B	C	D
	2820.483	2820.474	2820.485	2820.466
	2821.050	2821.045	2821.057	2821.040
	2821.797	2821.793	2821.799	2821.783
	2821.888	2821.886	2821.886	2822.109
5	2822.180	2822.130	2822.129	2822.477
	2822.704	2822.485	2822.490	2822.690
	2823.958	2822.699	2822.706	2823.031
	2824.240	2823.210	2823.049	2823.202
	2824.417	2823.951	2823.217	2823.495
10	2824.504	2824.236	2823.514	2823.939
	2824.925	2824.415	2823.960	2824.229
	2827.269	2824.499	2824.242	2824.483
	2827.555	2824.919	2824.421	2824.905
	2827.649	2827.259	2824.505	2825.225
15	2828.149	2827.550	2824.926	2827.249
	2828.815	2827.646	2825.240	2827.542
	2830.000	2828.143	2827.271	2827.635
	2830.086	2828.449	2827.557	2828.130
	2830.202	2828.810	2827.653	2828.437
20		2829.994	2828.150	2828.796
		2830.141	2828.454	2829.984
			2828.815	
			2830.002	

	A	B	C	D
	2810.527	2810.523	2810.529	2810.513
	2811.396	2810.800	2810.804	2810.790
	2812.210	2811.390	2811.396	2811.376
	2812.725	2812.206	2811.514	2812.192
5	2812.875	2812.721	2812.026	2812.711
	2813.345	2812.872	2812.212	2812.859
	2813.815	2813.337	2812.727	2813.328
	2813.905	2813.810	2812.877	2813.801
	2814.510	2814.504	2813.350	2814.496
10	2814.983	2814.978	2813.818	2814.965
	2815.701	2815.696	2814.512	2815.681
	2816.207	2816.198	2814.984	2816.186
	2816.980	2816.975	2815.175	2816.966
	2817.068	2819.438	2815.703	2818.501
15	2819.443	2820.146	2816.208	2819.425
	2820.138		2816.982	2820.140
			2819.444	
			2820.226	

A	B	C	D
2800.465	2800.461	2800.468	2800.135
2801.446	2801.440	2801.447	2800.453
2801.624	2801.615	2801.625	2801.430
2802.119	2802.115	2802.120	2801.604
2802.938	2802.933	2802.941	2802.104
2803.027	2803.507	2803.514	2802.924
2803.775	2803.771	2803.776	2803.500
2807.370	2804.281	2804.287	2803.756
2808.721	2805.709	2805.351	2804.269
2809.144	2807.363	2805.719	2804.871
2809.322	2808.717	2807.370	2805.021
2810.194	2809.140	2808.723	2805.334
	2809.318	2809.146	2805.702
	2810.142	2809.324	2807.352
		2810.156	2808.707
			2809.133
			2809.307
			2810.135

A	B	C	D
2791.747	2791.372	2790.909	2790.889
2796.285	2791.739	2791.385	2791.361
2796.368	2795.414	2791.748	2791.727
2796.573	2795.996	2795.424	2795.400
5 2797.463	5 2796.278	5 2795.812	5 2795.792
2797.601	2796.569	2796.001	2795.990
2797.961	2797.455	2796.288	2796.269
2798.737	2797.598	2796.574	2796.557
2799.775	2797.957	2797.465	2797.446
10 2800.162	10 2798.730	10 2797.602	10 2797.588
	2799.769	2797.962	2797.945
	2800.161	2798.638	2798.716
		2798.738	2799.008
		2799.022	2799.164
		15 2799.186	15 2799.762
		2799.777	2800.135
		2800.159	

	A	B	C	D
	2930.121	2930.115	2930.123	2930.092
	2930.653	2930.644	2930.654	2930.632
	2932.647	2931.366	2931.377	2931.356
	2933.114	2932.640	2932.226	2932.204
5	2933.223	2933.111	2932.648	2932.626
	2933.348	2933.217	2933.123	2933.196
	2933.440	2933.343	2933.220	2933.676
	2933.722	2933.713	2933.352	2934.002
	2935.185	2935.176	2933.712	2935.132
10	2935.346	2935.842	2934.024	2935.720
	2936.735	2936.023	2935.166	2935.830
	2936.960	2936.729	2935.737	2936.021
	2937.771	2936.954	2935.848	2936.728
	2938.497	2937.765	2936.039	2936.921
15	2939.679	2938.493	2936.179	2937.506
	2940.063	2939.674	2936.741	2937.750
	2940.230	2940.057	2936.961	2938.478
			2937.528	2939.050
			2937.772	2939.391
20			2937.843	2939.665
			2938.499	2940.042
			2939.074	
			2939.406	
			2939.682	
25			2940.063	
			2940.233	

	A	B	C	D
	2940.063	2940.057	2940.063	2940.043
	2940.330	2940.320	2940.331	2940.308
	2940.950	2940.944	2940.954	2940.935
	2941.755	2941.750	2941.757	2941.740
5	2941.979	2941.971	2941.981	2941.960
	2943.139	2943.135	2942.517	2942.501
	2944.650	2944.647	2942.743	2942.720
	2944.882	2944.876	2943.140	2943.121
	2945.663	2945.652	2944.420	2944.071
10	2946.042	2946.035	2944.655	2944.400
	2947.678	2946.987	2944.755	2944.639
	2948.096	2947.669	2944.884	2944.744
	2948.762	2948.084	2945.045	2944.864
	2948.893	2948.750	2945.662	2945.034
15	2949.139	2948.889	2945.800	2945.640
	2950.238	2949.135	2946.044	2945.786
		2950.234	2946.994	2946.013
			2947.112	2946.972
			2947.681	2947.091
20			2948.096	2947.658
			2948.762	2948.076
			2948.895	2948.742
			2949.141	2948.874
			2949.984	2949.124
25			2950.135	2949.973
				2950.225

	A		B		C		D
	2953.409		2950.911		2950.343		2950.326
	2953.529		2951.525		2950.918		2950.902
	2954.145		2953.402		2951.538		2951.515
	2954.393		2953.518		2953.409		2953.389
5	2954.911	5	2954.139	5	2953.526	5	2953.500
	2955.106		2954.384		2954.145		2954.107
	2955.251		2954.906		2954.394		2954.363
	2955.673		2955.101		2954.914		2954.892
	2956.398		2955.247		2955.106		2955.095
10	2956.901	10	2955.666	10	2955.252	10	2955.232
	2957.004		2956.393		2955.665		2955.630
	2958.375		2956.893		2956.400		2956.376
	2958.452		2956.997		2956.904		2956.888
	2960.138		2957.984		2957.007		2956.972
		15	2958.366	15	2957.330	15	2957.974
			2960.130		2957.994		2958.354
					2958.376		2960.129
					2960.139		

	A	B	C	D
	2960.764	2960.306	2960.311	2960.289
	2961.366	2960.763	2960.779	2960.761
	2961.538	2961.358	2961.353	2961.353
	2961.704	2961.533	2961.542	2961.666
5	2961.871	2961.697	2961.706	2962.563
	2962.582	2961.870	2961.875	2962.842
	2963.299	2962.576	2962.583	2962.987
	2964.208	2963.295	2962.856	2963.285
	2964.498	2963.400	2963.302	2963.386
10	2965.999	2964.202	2963.409	2964.192
	2966.824	2964.492	2964.211	2964.477
	2967.070	2965.987	2964.500	2965.921
	2967.330	2966.820	2965.972	2966.032
	2967.977	2967.064	2966.827	2966.807
15	2968.904	2967.322	2967.072	2967.054
	2969.200	2967.970	2967.331	2967.308
	2969.508	2968.900	2967.979	2967.944
	2970.167	2969.192	2968.906	2968.888
		2969.502	2969.200	2969.180
20		2970.163	2969.510	2969.480
			2969.924	2969.897
			2970.168	2970.148

A	B	C	D
2970.167	2970.163	2970.168	2970.148
2973.243	2971.655	2971.709	2971.691
2973.983	2973.220	2972.136	2972.036
2974.583	2973.973	2973.190	2973.102
5 2975.077	5 2974.574	5 2973.985	5 2973.963
2975.217	2975.067	2974.581	2974.550
2975.292	2975.204	2975.068	2975.015
2976.278	2976.270	2975.212	2976.255
2977.935	2977.428	2976.280	2977.841
10 2979.063	10 2977.916	10 2977.435	10 2978.385
2980.233	2979.057	2977.892	2979.046
	2980.228	2978.406	2980.205
		2979.065	
		2979.755	

A	B	C	D
2980.233	2980.228	2980.235	2980.205
2980.381	2980.371	2980.360	2980.317
2981.147	2980.893	2980.900	2981.106
2981.356	2981.138	2981.150	2981.336
2981.746	2981.349	2981.359	2981.729
2982.445	2981.741	2981.579	2982.418
2982.635	2982.436	2981.748	2982.607
2983.308	2982.622	2982.445	2983.292
2984.205	2983.303	2982.631	2983.528
2987.515	2983.543	2983.310	2984.161
2988.187	2984.195	2983.549	2984.578
2988.279	2987.494	2984.189	2987.397
2988.607	2988.182	2984.601	2988.177
2989.619	2988.275	2987.463	2988.257
2990.235	2988.597	2988.188	2988.573
	2989.610	2988.281	2989.049
	2990.235	2988.560	2989.594
		2988.613	2990.173
		2989.066	
		2989.620	
		2990.189	

	A	B	C	D
	2991.446	2991.441	2991.448	2991.432
	2991.963	2991.951	2991.944	2991.893
	2992.377	2992.373	2992.380	2992.369
	2992.646	2992.639	2992.637	2992.603
5	2993.515	2993.510	2993.520	2993.667
	2993.729	2993.717	2993.707	2994.098
	2994.110	2994.104	2994.116	2994.480
	2994.437	2994.413	2994.380	2995.387
	2995.447	2995.435	2994.447	2996.371
10	2996.386	2996.382	2995.425	2997.302
	2997.710	2997.705	2996.388	2997.693
	2998.974	2998.708	2997.712	2998.706
	2999.153	2998.968	2998.722	2998.952
	3000.171	2999.147	2998.975	2999.130
15		2999.635	2999.153	2999.622
		2999.849	2999.333	2999.839
		3000.195	2999.644	3000.204
			2999.855	
			3000.184	

A	B	C	D
3001.167	3001.163	3001.171	3000.857
3001.329	3001.323	3001.331	3001.153
3001.694	3001.687	3001.696	3001.311
3003.310	3003.458	3003.479	3001.678
5 3003.466	5 3003.812	5 3003.822	5 3003.429
3003.572	3004.288	3004.302	3003.748
3003.829	3004.472	3004.667	3004.653
3004.474	3004.663	3004.727	3004.946
3004.682	3004.969	3004.974	3005.395
10 3004.974	10 3005.436	10 3005.435	10 3006.407
3005.446	3006.420	3006.424	3006.585
3006.598	3006.595	3006.604	3006.951
3009.645	3006.959	3006.969	3007.102
3010.218	3009.243	3007.120	3007.268
	15 3009.638	15 3007.293	15 3008.249
	3010.183	3008.268	3009.231
		3009.250	3009.603
		3009.648	3010.126
		3010.130	

A24

A	B	C	D
3010.218	3010.183	3010.130	3010.298
3011.004	3010.999	3011.009	3010.997
3011.270	3011.263	3011.270	3011.237
3011.902	3011.896	3011.904	3011.884
5 3012.065	5 3012.061	5 3012.072	5 3012.722
3012.229	3012.225	3012.233	3013.188
3012.363	3012.358	3012.600	3013.500
3012.520	3012.495	3013.208	3013.881
3013.206	3013.199	3013.529	3015.442
10 3013.564	10 3013.539	10 3013.587	10 3016.245
3013.911	3013.901	3013.911	3016.548
3015.599	3015.566	3014.720	3016.691
3016.269	3016.261	3015.522	3017.081
3016.568	3016.564	3015.660	3017.806
15 3016.716	15 3016.703	15 3016.268	15 3018.165
3017.814	3017.097	3016.570	3018.988
3019.010	3017.835	3016.716	3019.344
3019.363	3019.001	3017.104	3019.799
3019.496	3019.354	3017.815	3019.943
20 3019.821	20 3019.492	20 3018.187	20 3020.234
3019.959	3019.812	3018.524	
3020.234	3019.952	3019.010	
	3020.232	3019.366	
		3019.495	
		25 3019.822	
		3019.965	
		3020.232	

A	B	C	D
3020.520	3020.516	3020.523	3020.505
3020.670	3020.666	3020.672	3020.650
3021.303	3021.298	3021.305	3021.284
3022.357	3022.338	3021.939	3022.289
3022.658	3022.652	3022.357	3022.632
3022.795	3022.784	3022.660	3023.123
3023.142	3023.137	3022.792	3023.613
3023.590	3023.589	3023.144	3023.782
3024.146	3024.140	3023.595	3024.130
3024.718	3024.711	3023.648	3024.705
3025.435	3025.437	3023.805	3025.617
3025.743	3025.708	3024.151	3025.719
3026.819	3026.815	3024.721	3026.804
3027.119	3027.114	3025.673	3027.101
3028.229	3027.780	3025.791	3027.769
3028.898	3028.223	3026.430	3028.213
3029.904	3028.892	3026.821	3028.879
3030.042	3029.895	3027.010	3029.326
		3027.121	3029.872
		3027.787	
		3028.233	
		3028.900	
		3029.342	
		3029.903	

A	B	C	D
3030.701	3030.656	3030.634	3030.534
[illegible]	3031.688	3031.693	3031.963
[illegible]	3031.913	3032.057	3032.470
[illegible]	3032.484	3032.494	3033.017
5 [illegible]	5 3033.526	5 3033.036	5 3033.514
[illegible]	3033.704	3033.535	3034.045
[illegible]	3034.195	3033.715	3035.766
[illegible]	3035.747	3034.140	3035.850
[illegible]	3035.980	3034.426	3036.189
10 [illegible]	10 3036.060	10 3035.797	10 3036.717
[illegible]	3036.208	3035.990	3036.883
[illegible]	3036.729	3036.063	3037.072
[illegible]	3036.891	3036.216	3037.552
[illegible]	3037.087	3036.736	3038.756
15 3037.574	15 3037.472	15 3036.905	15 3039.040
3038.778	3037.569	3037.094	3040.168
3040.118	3038.773	3037.480	
	3040.244	3037.575	
		3038.780	
		20 3039.058	
		3040.242	

A	B	C	D
3040.736	3040.730	3040.736	3040.712
3041.427	3041.419	3041.086	3041.066
3042.262	3042.252	3041.225	3041.207
3042.420	3042.411	3041.428	3041.403
5 3043.255	5 3043.245	5 3042.265	5 3042.247
3043.544	3043.539	3042.421	3042.397
3043.986	3043.976	3042.933	3042.909
3048.213	3045.683	3043.257	3043.236
3048.060	3047.655	3043.547	3043.528
10 3048.940	10 3048.024	10 3043.986	10 3043.963
3049.035	3048.209	3044.504	3044.479
3049.810	3048.633	3044.970	3044.950
3050.071	3048.922	3045.691	3045.673
3050.201	3049.805	3046.171	3046.155
	15 3050.061	15 3047.226	15 3047.208
	3050.249	3047.665	3047.642
		3048.029	3048.008
		3048.219	3048.212
		3048.602	3048.569
		20 3049.082	20 3049.036
		3049.810	3049.788
		3050.073	3050.050

A	B	C	D
3050.071	3050.061	3050.073	3050.050
3050.697	3050.688	3050.698	3050.670
3052.004	3051.997	3051.273	3051.368
3052.436	3052.430	3051.390	3051.982
3054.268	3054.263	3052.005	3052.421
3055.289	3055.370	3052.439	3053.403
3055.377	3055.592	3053.425	3053.711
3055.602	3056.279	3053.733	3054.245
3056.322	3057.130	3054.268	3055.361
3057.138	3058.068	3055.292	3055.546
3057.694	3058.541	3055.380	3056.563
3058.075	3059.245	3055.581	3057.084
3059.257	3059.720	3056.284	3058.059
3059.720	3059.892	3056.509	3058.526
3059.917		3057.122	3059.237
3060.232		3057.690	3059.790
		3058.078	3059.904
		3058.548	
		3059.257	
		3059.728	
		3059.871	

A	B	C	D
3060.862	3060.854	3060.862	3060.839
3061.224	3061.216	3061.223	3061.192
3062.342	3062.336	3062.343	3062.321
3064.364	3064.326	3064.270	3064.097
3065.357	3065.353	3065.360	3065.343
3065.610	3065.602	3065.610	3065.590
3066.263	3066.251	3066.245	3066.220
3066.974	3066.918	3066.892	3067.138
3067.649	3066.984	3067.148	3067.625
3068.910	3067.644	3067.651	3068.896
3069.410	3068.906	3068.913	3069.391
3070.139	3069.400	3069.413	3070.251
	3070.210	3070.254	

A	B	C	D
3200.168	3200.260	3200.266	3200.230
3200.268	3200.823	3200.830	3200.808
3200.829	3200.954	3200.964	3200.937
3200.957	3202.003	3202.010	3201.998
3202.006	3202.092	3202.098	3202.066
3202.097	3203.147	3203.155	3203.137
3203.152	3203.312	3203.324	3203.304
3203.323	3203.451	3203.459	3203.432
3203.456	3203.785	3203.795	3203.772
3203.548	3203.932	3203.938	3203.899
3203.791	3205.401	3205.409	3205.384
3203.938	3206.679	3206.689	3206.668
3205.408	3207.154	3207.160	3207.149
3206.687	3207.309	3207.318	3207.291
3207.158	3207.971	3207.617	3207.956
3207.315	3208.792	3207.978	3208.774
3207.976	3209.229	3208.801	3209.221
3208.800	3209.663	3209.238	3209.946
3209.235		3209.587	
3209.710		3209.872	

	A	B	C	D
	3190.163	3190.157	3190.165	3190.140
	3190.937	3190.927	3190.938	3190.911
	3191.099	3191.094	3191.100	3191.951
	3191.968	3191.959	3191.968	3192.076
5	3192.095	5 3192.090	5 3192.098	5 3192.198
	3192.221	3192.214	3192.223	3193.030
	3193.054	3193.047	3193.055	3195.133
	3195.156	3195.144	3195.157	3195.465
	3196.079	3196.047	3195.480	3196.005
10	3196.640	10 3196.631	10 3196.043	10 3196.136
	3197.277	3197.273	3196.636	3196.623
	3197.824	3197.765	3197.281	3197.262
	3198.191	3198.180	3198.030	3198.093
	3199.353	3199.347	3198.187	3199.332
15	3199.716	15 3199.699	15 3199.354	15 3199.687
	3200.168		3199.678	3200.230

	A	B	C	D
	3181.071	3181.066	3181.074	3181.052
	3181.524	3181.518	3181.527	3181.506
	3182.021	3181.893	3181.902	3181.879
	3182.271	3182.008	3182.020	3181.998
5	3182.511	3182.266	3182.273	3182.251
	3182.696	3182.505	3182.513	3182.481
	3182.998	3182.690	3182.697	3182.669
	3184.152	3182.992	3183.000	3182.981
	3184.395	3184.123	3183.264	3183.240
10	3184.528	3184.385	3184.131	3184.105
	3184.734	3184.524	3184.395	3184.378
	3184.813	3184.799	3184.531	3184.515
	3185.140	3185.154	3184.723	3184.682
	3185.231	3185.217	3185.133	3185.313
15	3185.737	3185.729	3185.300	3185.705
	3186.773	3186.765	3185.735	3186.755
	3187.526	3187.365	3186.778	3187.358
	3187.937	3187.519	3187.377	3187.505
	3188.292	3187.930	3187.530	3187.918
20	3189.869	3188.284	3187.937	3188.269
	3190.163	3189.863	3188.293	3189.146
		3190.157	3189.167	3189.848
			3189.871	3190.140
			3190.165	

	A	B	C	D
	3170.073	3170.067	3170.076	3170.053
	3170.224	3170.219	3170.229	3170.205
	3170.893	3170.885	3170.895	3170.869
	3171.120	3171.115	3171.121	3171.099
5	3171.230	5 3171.220	5 3171.231	5 3171.201
	3172.303	3172.297	3172.305	3172.283
	3172.472	3172.465	3172.474	3172.447
	3173.151	3173.144	3173.153	3173.121
	3174.679	3174.675	3174.682	3174.662
10	3174.924	10 3174.917	10 3174.927	10 3174.890
	3175.068	3175.062	3175.068	3175.040
	3175.396	3175.389	3175.221	3175.194
	3175.891	3175.885	3175.397	3175.373
	3175.978	3176.484	3175.895	3175.870
15	3176.493	15 3177.243	15 3176.492	15 3176.470
	3177.250	3178.021	3177.255	3177.231
	3178.076	3178.941	3177.969	3177.829
	3178.951	3179.477	3178.268	3178.353
	3179.485	3179.654	3178.951	3178.925
20	3179.663	20 3180.235	20 3179.490	20 3179.468
	3180.223		3179.663	3179.623
			3180.237	3180.131

	A	B	C	D
	3162.082	3162.079	3162.088	3161.174
	3162.562	3162.556	3162.563	3162.069
	3163.162	3163.157	3163.164	3162.541
	3163.823	3163.813	3163.821	3163.140
5	3164.028	3164.016	3164.026	3163.795
	3164.181	3164.171	3164.180	3164.006
	3164.368	3164.354	3164.365	3164.155
	3164.557	3164.552	3164.560	3164.339
	3165.095	3165.089	3165.095	3164.537
10	3165.454	3165.449	3165.455	3165.071
	3165.663	3165.655	3165.664	3165.432
	3166.449	3166.444	3166.450	3165.639
	3166.693	3166.688	3166.696	3166.428
	3167.230	3167.221	3167.228	3166.673
15	3167.902	3167.891	3167.880	3167.198
	3169.307	3169.296	3169.302	3167.847
	3169.542	3169.532	3169.536	3169.276
	3169.813	3169.803	3169.808	3169.505
	3170.073	3170.067	3170.076	3169.762
20	3170.224	3170.220	3170.229	3170.053
				3170.205

A	B	C	D
3151.349	3151.337	3150.200	3150.177
3152.098	3152.087	3151.331	3151.302
3152.282	3152.274	3152.099	3152.076
3152.427	3152.415	3152.283	3152.261
5 3152.717	5 3152.710	5 3152.424	5 3152.372
3153.128	3153.121	3152.718	3152.696
3153.275	3153.264	3153.129	3153.106
3154.342	3154.336	3153.276	3153.250
3155.340	3154.451	3154.342	3153.700
10 3155.790	10 3155.334	10 3154.461	10 3154.323
3157.680	3155.783	3155.344	3155.321
3158.232	3156.116	3155.791	3155.770
3158.853	3157.675	3156.125	3156.106
3160.257	3158.225	3156.688	3156.665
	15 3158.846	15 3157.234	15 3157.220
	3160.258	3157.439	3157.418
		3157.682	3157.658
		3158.234	3158.213
		3158.854	3158.831
		20 3160.259	20 3159.189
			3160.259

A	B	C	D
3140.019	3140.450	3140.020	3140.437
3140.458	3142.119	3140.460	3140.898
3142.127	3142.754	3142.129	3142.104
3142.770	3144.221	3142.734	3142.684
5 3144.231	5 3145.400	5 3144.233	5 3144.210
3145.408	3145.880	3145.410	3145.386
3145.892	3146.990	3145.685	3145.660
3146.998	3147.912	3145.891	3145.867
3147.918	3148.340	3147.000	3146.978
10 3148.346	10 3149.245	10 3147.918	10 3147.894
3149.251	3149.330	3148.349	3148.326
3150.205	3149.524	3149.254	3149.237
	3150.185	3149.335	3149.514
		3149.536	3150.177
		15 3150.199	

A	B	C	D
3130.392	3130.385	3130.395	3130.372
3130.478	3131.433	3130.666	3130.648
3131.437	3132.976	3131.346	3131.325
3133.021	3133.552	3131.439	3131.415
5 3133.563	5 3134.483	5 3132.888	5 3132.853
3134.489	3134.618	3133.242	3133.519
3134.627	3135.083	3133.562	3134.472
3135.091	3135.365	3134.492	3134.597
3135.373	3135.899	3134.625	3135.072
10 3136.273	10 3136.265	10 3135.091	10 3135.352
3136.406	3136.401	3135.376	3135.893
3136.738	3136.735	3135.912	3136.256
3139.106	3139.097	3136.169	3136.384
3139.547	3139.542	3136.277	3136.717
15 3139.659	15 3139.654	15 3136.408	15 3139.085
3140.017	3140.007	3136.740	3139.529
3140.203	3140.251	3139.108	3139.637
		3139.549	3139.994
		3139.662	3140.253
		20 3140.019	
		3140.199	

	A	B	C	D
	3120.189	3120.177	3120.189	3120.165
	3120.793	3120.784	3120.794	3120.771
	3120.965	3120.950	3120.961	3120.941
	3121.591	3121.583	3121.578	3121.537
5	3121.776	3121.768	3121.777	3121.750
	3122.435	3122.396	3122.855	3123.084
	3122.782	3122.753	3123.145	3123.380
	3123.119	3123.075	3123.407	3124.168
	3123.405	3123.397	3125.082	3125.045
10	3125.123	3125.108	3125.510	3125.490
	3125.508	3125.502	3125.951	3125.936
	3125.993	3125.970	3126.010	3126.915
	3126.563	3126.559	3126.567	3127.388
	3126.769	3126.728	3126.911	3127.826
15	3126.905	3126.774	3127.414	3128.066
	3127.413	3127.404	3127.849	3128.519
	3127.848	3127.841	3128.091	3128.752
	3128.092	3128.085	3128.552	3129.571
	3128.550	3128.543	3128.785	3129.898
20	3128.784	3128.779	3129.595	
	3129.595	3129.588	3130.247	
	3130.079	3130.247		

A	B	C	D
3110.301	3110.289	3110.272	3110.258
3110.589	3110.580	3110.584	3110.536
3110.710	3110.700	3111.491	3111.470
3112.090	3111.483	3112.043	3112.005
5 3112.176	5 3112.079	5 3112.390	5 3112.432
3112.383	3112.369	3112.568	3113.090
3112.574	3112.565	3112.673	3113.552
3112.672	3112.667	3112.840	3114.340
3112.841	3112.831	3113.114	3115.219
10 3113.112	10 3113.105	10 3113.573	10 3115.760
3113.268	3113.566	3114.437	3115.889
3113.571	3114.445	3115.236	3116.161
3114.477	3115.227	3115.745	3116.625
3115.836	3115.796	3116.033	3117.941
15 3116.198	15 3116.611	15 3116.619	15 3119.261
3116.615	3116.703	3116.710	3119.917
3116.710	3118.068	3118.027	3120.165
3118.098	3118.880	3118.867	
3118.921	3119.145	3119.213	
20 3119.171	20 3119.928	20 3119.937	
3120.188	3120.177	3120.189	

A	B	C	D
3100.606	3100.602	3100.612	3100.986
3100.798	3101.070	3101.058	3101.822
3101.873	3101.864	3101.245	3102.405
3102.300	3102.440	3101.871	3103.136
3102.453	3102.967	3102.444	3103.346
3102.996	3103.377	3102.963	3104.556
3103.383	3104.557	3103.088	3104.957
3104.569	3104.974	3103.382	3105.833
3104.980	3105.855	3104.203	3106.038
3105.862	3106.056	3104.570	3106.543
3106.063	3106.552	3104.980	3106.707
3106.558	3106.723	3105.220	3107.313
3106.728	3107.291	3105.864	3108.157
3107.317	3108.222	3106.063	3108.856
3108.233	3108.867	3106.563	3109.323
3109.373	3109.362	3106.729	3109.718
3109.749	3109.738	3107.251	
		3108.210	
		3108.667	
		3108.873	
		3109.363	
		3109.726	

	A	B	C	D
	3090.980	3090.973	3090.049	3090.021
	3091.235	3091.227	3090.983	3090.966
	3092.421	3092.271	3091.236	3091.213
	3093.680	3092.416	3092.284	3091.988
5	3094.540	3093.659	3092.424	3092.263
	3095.905	3094.530	3093.635	3092.404
	3096.460	3095.868	3094.523	3093.613
	3096.918	3096.452	3095.851	3094.478
	3097.311	3096.904	3096.048	3096.177
10	3098.425	3097.299	3096.457	3096.904
	3098.808	3097.565	3096.932	3097.277
	3099.537	3097.982	3097.304	3097.547
	3099.789	3098.265	3097.572	3097.967
	3100.222	3098.417	3097.990	3098.260
15		3098.802	3098.275	3098.407
		3099.503	3098.428	3098.789
		3099.763	3098.533	3099.389
			3098.811	3099.857
			3099.462	
20			3099.829	

	A		B		C		D
	3081.327		3081.283		3080.363		3081.200
	3081.836		3081.831		3081.250		3082.444
	3082.566		3082.542		3081.401		3083.275
	3083.296		3083.288		3081.836		3083.810
5	3083.827	5	3083.823	5	3082.509	5	3085.333
	3085.354		3085.344		3082.668		3085.529
	3085.547		3085.543		3083.297		3085.664
	3085.838		3085.677		3083.830		3085.822
	3086.030		3086.118		3085.356		3086.109
10	3087.182	10	3087.967	10	3085.548	10	3087.085
	3087.976		3088.376		3085.689		3087.955
	3088.381		3089.529		3085.839		3088.364
	3089.539		3089.615		3086.125		3089.522
	3089.621		3090.049		3087.142		3090.021
15	3090.265	15	3090.261	15	3087.979	15	3090.261
					3088.134		
					3088.386		
					3089.542		
					3089.623		
				20	3090.049		
					3090.263		

A	B	C	D
3073.371	3071.277	3071.288	3071.265
3075.326	3072.793	3072.800	3072.776
3076.552	3073.363	3073.371	3073.348
3076.709	3075.027	3074.716	3074.695
5 3077.467	5 3075.320	5 3075.034	5 3075.010
3077.924	3076.702	3075.329	3075.308
3079.061	3077.460	3076.225	3076.202
3079.513	3077.892	3076.555	3076.685
3079.669	3079.051	3076.710	3077.429
10 3079.917	10 3079.484	10 3077.465	10 3077.827
3080.243	3079.909	3077.884	3078.020
		3077.970	3079.045
		3079.062	3079.817
		3079.423	
		15 3079.918	

A	B	C	D
3210.713	3210.706	3210.714	3210.687
3211.551	3211.204	3211.212	3211.192
3211.987	3211.540	3211.551	3211.523
3213.153	3211.980	3211.990	3211.969
5 3214.068	5 3213.145	5 3213.152	5 3213.127
3214.665	3214.012	3213.995	3213.969
3214.784	3214.659	3214.294	3214.641
3215.316	3214.779	3214.667	3215.290
3216.512	3215.306	3214.786	3215.898
10 3216.657	10 3216.491	10 3215.317	10 3216.390
3218.747	3217.071	3215.915	3216.528
3219.344	3218.725	3216.461	3217.058
3219.666	3219.292	3217.081	3218.063
3219.760	3219.656	3218.080	3218.711
15 3220.000	15 3219.994	15 3218.738	15 3219.661
		3219.221	3219.984
		3220.004	

	A	B	C	D
	3220.292	3220.408	3220.421	3220.503
	3220.427	3221.236	3221.244	3221.223
	3221.243	3221.995	3221.982	3221.903
	3222.024	3222.673	3222.680	3222.656
5	3222.678	3222.892	3222.899	3222.881
	3222.895	3223.311	3223.319	3223.300
	3223.317	3223.452	3223.460	3223.434
	3223.459	3224.473	3224.481	3224.455
	3224.481	3225.690	3225.083	3225.057
10	3225.697	3226.052	3225.244	3225.222
	3226.060	3226.328	3225.698	3225.641
	3227.358	3227.363	3226.061	3225.705
	3227.447	3229.031	3226.342	3226.021
	3229.038	3229.365	3227.344	3227.281
15	3229.369	3229.851	3229.038	3227.627
	3229.885		3229.371	3228.990
			3229.818	3229.347
			3229.938	3229.718
				3229.995

	A	B	C	D
	3230.276	3230.271	3230.281	3230.330
	3230.416	3230.405	3230.408	3230.418
	3230.977	3230.959	3230.936	3230.924
	3231.353	3231.346	3231.353	3231.329
5	3231.507	3231.503	3231.510	3231.485
	3231.691	3231.685	3231.693	3231.671
	3232.264	3232.255	3231.908	3231.898
	3232.615	3232.604	3232.240	3232.220
	3232.748	3232.743	3232.615	3232.597
10	3233.005	3232.964	3232.752	3233.128
	3233.478	3233.471	3233.089	3233.454
	3233.980	3233.698	3233.480	3233.679
	3234.615	3233.975	3233.705	3233.960
	3236.392	3234.609	3233.983	3234.594
15	3236.621	3236.389	3234.617	3235.126
	3237.945	3236.593	3235.152	3236.397
	3240.091	3237.935	3236.399	3236.741
		3240.057	3236.747	3237.919
			3237.944	3239.195
20			3239.608	3239.592
			3240.024	3239.926
			3240.090	3240.189

	A	B	C	D
	3240.091	3240.057	3240.090	3240.189
	3241.334	3241.329	3241.337	3241.317
	3241.765	3241.753	3241.737	3241.691
	3242.803	3242.796	3242.805	3241.765
5	3243.040	3243.029	3243.028	3242.784
	3243.438	3243.432	3243.439	3242.991
	3244.399	3244.389	3244.385	3243.416
	3244.894	3244.837	3245.433	3244.325
	3245.391	3244.942	3245.923	3245.511
10	3245.920	3245.374	3246.116	3245.898
	3246.119	3245.913	3246.548	3246.087
	3246.546	3246.106	3247.212	3246.521
	3247.204	3246.540	3247.347	3247.304
	3247.356	3247.201	3248.408	3248.382
15	3248.974	3247.348	3248.783	3248.774
	3249.191	3248.399	3248.976	3248.947
	3249.465	3248.963	3249.192	3249.167
	3249.927	3249.183	3249.466	3249.443
	3250.216	3249.459	3249.746	3249.715
20		3249.922	3249.936	3249.911
		3250.229	3250.235	3250.189

	A	B	C	D
	3251.503	3250.930	3250.938	3250.915
	3251.633	3251.493	3251.500	3251.470
	3253.011	3251.618	3252.332	3252.310
	3253.100	3252.325	3253.015	3252.992
5	3254.109	3253.002	3253.101	3253.076
	3254.617	3253.090	3253.443	3253.868
	3256.077	3253.432	3253.968	3254.584
	3257.206	3254.068	3254.292	3256.020
	3258.068	3254.610	3254.616	3257.086
10	3258.149	3255.733	3255.741	3257.364
	3259.645	3256.069	3256.065	3258.029
	3260.053	3257.172	3257.111	3259.622
		3258.060	3257.269	
		3258.140	3258.063	
15		3259.637	3258.752	
			3259.646	

	A		B		C		D
	3260.410		3260.386		3260.334		3260.257
	3260.781		3260.772		3260.457		3260.983
	3261.007		3261.002		3260.779		3261.238
	3261.259		3261.251		3261.008		3261.805
5	3262.511	5	3262.504	5	3261.261	5	3262.036
	3263.269		3262.700		3261.824		3262.480
	3263.673		3263.252		3262.062		3262.682
	3264.232		3263.664		3262.510		3263.196
	3264.339		3264.226		3262.709		3263.649
10	3265.080	10	3264.336	10	3263.236	10	3264.208
	3266.086		3265.053		3263.674		3264.957
	3266.377		3266.076		3264.233		3265.731
	3267.226		3266.369		3264.345		3266.050
	3267.516		3267.218		3265.032		3266.322
15	3269.611	15	3267.511	15	3265.753	15	3267.203
	3269.806		3268.022		3266.085		3267.490
			3268.392		3266.365		3267.999
			3269.524		3267.227		3268.383
			3269.602		3267.519		3268.760
				20	3268.029	20	3269.589
					3268.403		
					3268.788		
					3269.614		
					3269.810		

	A	B	C	D
	3270.418	3270.407	3270.395	3270.346
	3270.794	3270.790	3270.799	3271.004
	3271.011	3271.002	3270.992	3271.384
	3271.405	3271.400	3271.406	3271.826
5	3271.885	3271.871	3271.854	3271.889
	3272.042	3272.034	3272.040	3272.488
	3272.513	3272.505	3272.514	3272.771
	3272.789	3272.784	3272.792	3273.271
	3273.179	3273.391	3273.368	3274.606
10	3273.411	3273.684	3273.893	3275.135
	3273.734	3274.623	3274.630	3275.578
	3274.629	3275.157	3275.155	3275.814
	3275.167	3275.344	3275.597	3276.759
	3275.354	3275.589	3275.831	3276.926
15	3275.594	3275.823	3276.145	3277.582
	3275.829	3276.183	3276.531	3278.265
	3276.209	3276.439	3276.957	3278.582
	3276.475	3276.949	3277.607	3278.813
	3276.956	3277.600	3278.119	3279.027
20	3277.607	3278.276	3278.286	3279.323
	3278.283	3278.449	3278.457	3279.961
	3278.452	3278.605	3278.613	3280.194
	3278.613	3278.707	3278.717	
	3278.716	3278.827	3278.838	
25	3278.837	3279.078	3279.067	
	3279.088	3279.348	3279.355	
	3279.355	3279.608	3279.622	
	3279.616	3280.033	3279.991	
	3280.059		3280.094	

A	B	C	D
3280.059	3280.031	3280.093	3280.670
3280.706	3280.695	3280.702	3281.064
3282.452	3282.442	3281.086	3281.155
3282.940	3282.930	3281.728	3281.704
5 3283.054	5 3283.037	5 3282.455	5 3281.980
3283.756	3283.746	3282.903	3282.432
3284.204	3284.193	3282.975	3282.867
3285.047	3284.636	3283.744	3283.668
3285.718	3285.036	3284.180	3283.780
10 3285.817	10 3285.712	10 3284.639	10 3284.225
3286.163	3285.814	3285.044	3285.010
3288.468	3286.154	3285.717	3285.676
3288.909	3288.439	3285.818	3285.797
3289.543	3288.891	3286.159	3286.123
15 3289.842	15 3289.537	15 3286.844	15 3286.824
3290.073	3289.839	3288.100	3288.085
	3290.058	3288.401	3288.354
		3288.874	3288.916
		3288.936	3289.519
		20 3289.544	20 3289.821
		3289.844	
		3290.076	

	A	B	C	D
	3290.327	3290.321	3290.329	3290.301
	3291.333	3291.305	3291.247	3291.174
	3291.875	3291.868	3291.877	3291.853
	3292.492	3292.478	3292.463	3292.421
5	3292.808	3292.797	3292.854	3293.040
	3293.085	3293.074	3293.091	3293.314
	3293.341	3293.336	3293.342	3293.761
	3293.784	3293.578	3293.578	3294.125
	3294.053	3293.774	3293.785	3294.906
10	3294.201	3294.046	3294.051	3295.140
	3294.384	3294.189	3294.164	3295.523
	3295.780	3294.371	3294.378	3295.757
	3296.106	3295.154	3295.163	3296.077
	3296.865	3295.774	3295.551	3296.795
15	3297.489	3296.096	3295.781	3297.530
	3297.932	3296.853	3296.104	3298.045
	3298.098	3297.458	3296.842	3299.277
	3299.302	3297.930	3297.426	3299.768
	3299.788	3298.082	3297.511	3300.147
20	3300.206	3299.295	3298.069	
		3299.783	3298.132	
		3300.196	3299.303	
			3299.789	
			3300.187	

	A	B	C	D
	3300.206	3300.196	3300.187	3300.147
	3300.493	3300.484	3300.492	3300.451
	3301.123	3301.117	3301.129	3301.106
	3302.649	3302.004	3302.015	3301.988
5	3303.067	5 3302.744	5 3302.651	5 3302.630
	3303.277	3303.058	3303.053	3303.009
	3303.672	3303.263	3303.250	3303.227
	3304.411	3303.668	3303.674	3303.646
	3304.633	3304.402	3304.260	3304.390
10	3305.157	10 3304.628	10 3304.414	10 3304.513
	3305.873	3305.151	3304.541	3304.607
	3306.273	3305.624	3304.634	3305.137
	3307.472	3305.865	3304.980	3305.604
	3307.681	3306.073	3305.159	3305.844
15	3308.071	15 3306.267	15 3305.630	15 3306.045
	3308.312	3307.469	3305.872	3306.254
	3308.669	3307.674	3306.083	3307.645
	3308.997	3308.060	3306.276	3309.067
	3309.248	3308.302	3307.478	3309.333
20	3309.359	20 3308.638	20 3307.681	20 3309.460
	3309.498	3308.971	3308.046	3309.822
	3310.048	3309.240	3308.346	
		3309.350	3309.064	
		3309.488	3309.245	
		25 3309.826	25 3309.360	
			3309.493	
			3309.703	

035

A	B	C	D
3310.517	3310.496	3310.477	3310.426
3310.784	3310.839	3310.780	3311.274
3310.846	3311.292	3310.844	3311.565
3311.297	3311.579	3311.299	3311.991
5 3311.590	5 3312.031	5 3311.588	5 3312.469
3312.046	3312.487	3312.015	3313.062
3313.229	3313.206	3312.498	3314.071
3313.382	3313.857	3313.163	3314.429
3313.865	3314.093	3313.400	3314.586
10 3314.099	10 3314.752	10 3313.864	10 3314.737
3314.759	3315.029	3314.100	3315.009
3315.035	3317.257	3314.458	3315.842
3317.271	3317.674	3314.608	3316.204
3317.683	3318.349	3314.761	3317.176
15 3318.354	15 3318.493	15 3315.036	15 3317.652
3318.501	3318.760	3317.242	3318.339
3318.768	3319.679	3317.682	3318.442
3319.689	3320.126	3318.358	3318.736
3320.227		3318.496	3319.449
		20 3318.768	20 3319.663
		3319.487	3319.797
		3319.686	3320.111
		3319.817	
		3320.132	

036

	A	B	C	D
	3320.456	3320.125	3320.132	3320.111
	3321.889	3320.449	3320.456	3320.429
	3322.258	3321.880	3321.422	3320.792
	3322.342	3322.334	3321.891	3321.393
5	3323.010	3322.990	3322.347	3321.864
	3323.136	3323.325	3323.016	3322.328
	3323.334	3323.563	3323.336	3322.949
	3323.571	3323.803	3323.474	3323.299
	3323.804	3323.990	3323.572	3323.545
10	3324.000	3324.517	3323.810	3323.972
	3324.532	3324.851	3324.000	3324.468
	3324.659	3325.651	3324.494	3324.821
	3326.029	3326.017	3324.848	3325.643
	3326.218	3326.215	3325.660	3326.000
15	3326.415	3326.3[illegible]8	3325.989	3326.813
	3326.788	3326.780	3326.221	3327.216
	3327.321	3327.309	3326.375	3327.446
	3327.573	3327.557	3326.787	3328.643
	3328.656	3328.652	3327.300	3328.843
20	3328.867	3328.862	3327.609	3329.563
	3329.638	3329.105	3328.660	
	3330.034	3329.624	3328.870	
		3330.160	3329.109	
			3329.597	
25			3330.023	

037

3330.764	3330.759	3330.024	3330.739
3331.181	3331.175	3330.765	3331.155
3332.124	3331.907	3331.183	3331.892
3332.578	3332.118	3331.911	3332.102
5 3332.689	5 3332.573	5 3332.126	5 3332.549
3333.038	3332.682	3332.585	3332.656
3333.348	3333.029	3332.690	3333.016
3334.612	3333.333	3333.041	3333.320
3336.152	3334.577	3333.348	3333.555
10 3336.405	10 3336.142	10 3333.577	10 3333.816
3336.701	3336.406	3333.837	3334.371
3336.828	3336.689	3334.538	3336.128
3337.191	3336.813	3334.586	3336.507
3338.981	3337.183	3336.153	3337.146
15 3339.279	15 3338.970	15 3336.621	15 3338.958
3340.135	3339.268	3336.943	3339.247
	3340.128	3337.191	3340.125
		3337.356	3340.206
		3338.977	
		20 3339.278	
		3339.931	
		3340.136	

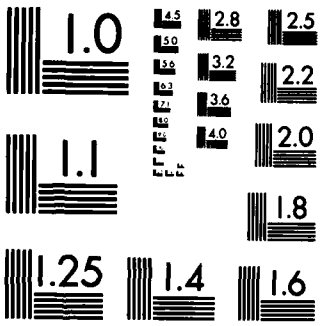
038

A	B	C	D
3340.135	3340.128	3340.136	3340.125
3340.290	3340.281	3340.273	3340.206
3340.625	3340.618	3340.628	3340.603
3341.375	3341.366	3340.816	3340.779
5 3342.003	5 3341.998	5 3341.371	5 3341.338
3342.287	3342.276	3342.007	3341.995
3342.618	3342.609	3342.270	3342.215
3342.973	3342.966	3342.621	3342.591
3343.300	3343.295	3342.976	3342.948
10 3343.542	10 3343.537	10 3343.302	10 3343.278
3343.718	3343.711	3343.546	3343.527
3344.576	3344.369	3343.719	3343.691
3346.032	3344.568	3344.380	3344.352
3347.219	3344.984	3344.583	3344.557
15 3347.303	15 3345.657	15 3344.709	15 3344.966
3347.759	3346.020	3344.991	3345.275
3348.026	3347.214	3345.296	3345.363
3348.184	3347.757	3345.387	3345.649
3348.438	3348.018	3345.672	3345.984
20 3349.055	20 3348.178	20 3346.021	20 3346.765
3349.856	3348.427	3346.507	3347.204
3350.042	3349.050	3346.794	3347.766
3350.235	3349.462	3347.226	3348.002
	3349.846	3347.302	3348.162
	25 3350.028	25 3347.511	25 3348.373
	3350.232	3347.765	3349.033
		3347.813	3349.450
		3347.907	3349.809
		3348.026	3350.219
		30 3348.187	
		3348.433	
		3349.058	
		3349.474	
		3349.853	
		35 3350.041	
		3350.243	

039

AD-A151 757 AN ATLAS OF PURE WATER VAPOR SPECTRA FROM 500 TO 5000/CM VOLUME 2..(U) OHIO STATE UNIV COLUMBUS ELECTROSCIENCE LAB R K LONG ET AL. SEP 84 4/5

UNCLASSIFIED ESL-713774-3-VOL-2 ARO-17603.4-GS F/G 7/4 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

A	B	C	D
3350.042	3350.028	3350.042	3350.218
3350.235	3350.231	3350.243	3350.484
3350.500	3350.496	3350.505	3351.183
3351.254	3351.240	3351.220	3351.585
5 3351.613	5 3351.602	5 3351.614	5 3352.655
3352.696	3352.686	3352.695	3353.180
3353.222	3353.213	3353.222	3353.564
3353.653	3353.637	3353.623	3354.265
3353.838	3354.283	3354.293	3354.450
10 3354.292	10 3354.487	10 3354.494	10 3355.145
3354.499	3355.173	3355.183	3355.859
3355.178	3355.613	3355.586	3356.261
3355.259	3356.275	3355.783	3356.523
3355.689	3356.525	3356.285	3356.906
15 3355.864	15 3356.993	15 3356.535	15 3357.638
3356.281	3357.666	3356.931	3358.060
3356.532	3358.073	3357.067	3358.793
3356.622	3358.803	3357.675	3358.931
3357.020	3358.939	3358.085	3359.352
20 3357.673	20 3359.177	20 3358.815	20 3360.065
3358.083	3359.484	3358.947	3360.142
3358.815	3359.779	3359.185	
3358.944	3360.151	3359.471	
3359.180		3359.536	
25 3359.510		25 3359.789	
3359.792		3360.156	
3360.167			

040

	A	B	C	D
	3360.167	3360.151	3360.156	3360.142
	3360.394	3360.384	3360.392	3360.652
	3360.677	3360.667	3360.679	3360.863
	3360.887	3360.878	3360.890	3361.188
5	3361.655	5 3361.173	5 3361.185	5 3362.368
	3362.112	3361.610	3361.555	3362.866
	3362.275	3362.239	3361.749	3363.850
	3362.926	3362.916	3362.236	3364.363
	3363.872	3363.862	3362.640	3364.902
10	3364.248	10 3364.228	10 3362.926	10 3365.361
	3364.819	3364.816	3363.873	3365.966
	3364.899	3365.372	3364.194	3366.198
	3365.379	3365.684	3364.427	3366.444
	3365.704	3366.217	3364.815	3366.967
15	3366.226	15 3366.515	15 3365.384	15 3367.379
	3366.529	3366.981	3365.881	3368.269
	3366.986	3367.501	3366.226	3368.510
	3367.343	3368.280	3366.507	3368.824
	3367.515	3368.518	3366.990	3369.149
20	3367.628	20 3368.671	20 3367.462	20 3369.706
	3368.294	3368.790	3368.291	3369.826
	3368.521	3369.133	3368.526	3370.242
	3368.672	3369.724	3368.682	
	3368.8 1	3369.860	3368.785	
25	3369.146		25 3369.131	
	3369.735		3369.735	
	3369.870		3369.866	
	3370.030			

041

	A	B	C	D
	3370.268	3370.262	3370.269	3370.242
	3370.900	3371.033	3370.906	3371.013
	3371.045	3372.531	3371.033	3371.971
	3372.823	3372.812	3371.990	3372.180
5	3373.042	3373.037	3372.204	3372.524
	3373.873	3373.865	3372.544	3372.798
	3374.011	3374.004	3372.825	3373.020
	3374.674	3374.320	3373.044	3373.178
	3375.181	3374.661	3373.201	3373.884
10	3375.418	3375.175	3373.882	3373.975
	3375.612	3375.410	3374.012	3374.307
	3376.095	3375.603	3374.332	3374.632
	3376.287	3376.086	3374.646	3375.156
	3376.666	3376.273	3374.705	3375.395
15	3377.224	3376.658	3375.181	3375.584
	3377.543	3377.217	3375.419	3376.073
	3378.057	3377.532	3375.614	3376.259
	3378.431	3378.048	3376.097	3376.645
	3378.525	3378.423	3376.286	3377.208
20	3378.913	3378.518	3376.669	3377.482
	3379.117	3378.905	3377.226	3378.027
	3379.662	3379.104	3377.543	3378.404
	3380.153	3379.650	3378.056	3378.894
		3380.137	3378.431	3379.068
25			3378.519	3379.635
			3378.914	3380.135
			3379.109	
			3379.662	
			3380.160	

	A	B	C	D
	3380.153	3380.137	3380.160	3380.135
	3380.458	3380.444	3380.426	3380.368
	3380.800	3380.788	3380.479	3380.771
	3382.469	3381.680	3380.800	3381.666
5	3382.865	3381.840	3381.688	3381.828
	3383.067	3382.461	3381.845	3382.445
	3383.760	3382.863	3382.469	3382.971
	3384.107	3383.047	3382.873	3383.738
	3384.362	3383.750	3383.019	3384.309
10	3385.342	3384.102	3383.100	3384.576
	3385.680	3384.327	3383.761	3385.330
	3386.349	3385.335	3384.115	3385.819
	3386.803	3385.616	3384.458	3386.323
	3387.204	3386.338	3385.345	3386.772
15	3387.371	3386.789	3385.750	3387.182
	3387.706	3387.198	3386.350	3387.347
	3387.839	3387.360	3386.803	3387.688
	3388.095	3387.698	3387.206	3387.812
	3388.630	3387.833	3387.373	3388.072
20	3389.314	3388.082	3387.712	3388.605
	3389.461	3388.620	3387.841	3389.141
	3389.821	3389.308	3388.099	3389.280
	3390.112	3389.455	3388.633	3389.432
		3389.812	3389.165	3389.795
25		3390.107	3389.316	3390.096
		3390.226	3389.461	
			3389.821	
			3389.962	
			3390.121	

043

	A	B	C	D
	3390.112	3390.107	3390.121	3390.096
	3391.043	3391.032	3391.044	3391.022
	3391.335	3391.421	3391.341	3391.453
	3391.424	3391.550	3391.429	3391.784
5	3391.565	3391.800	3391.538	3393.412
	3391.808	3392.396	3391.808	3393.655
	3392.421	3392.925	3392.446	3394.239
	3392.714	3393.409	3393.196	3394.549
	3392.914	3393.676	3393.421	3395.073
10	3393.206	3394.258	3393.682	3395.668
	3393.417	3394.562	3394.272	3395.856
	3393.509	3394.673	3394.575	3395.991
	3393.682	3395.089	3394.686	3396.141
	3394.273	3395.865	3395.097	3397.517
15	3394.573	3395.992	3395.690	3398.115
	3395.871	3396.156	3395.877	3398.743
	3395.998	3397.099	3396.001	3399.714
	3396.166	3398.133	3396.160	3399.975
	3397.164	3398.795	3397.365	
20	3397.365	3399.737	3398.140	
	3398.139	3399.992	3398.786	
	3398.805	3400.152	3399.212	
	3399.744		3399.748	
	3400.002		3400.002	
25	3400.150		3400.158	

A	B	C	D
3400.003	3400.393	3400.004	3400.378
3400.399	3400.636	3400.158	3400.570
3400.559	3401.044	3400.401	3401.061
3400.613	3401.481	3400.572	3401.423
5 3401.059	5 3402.057	5 3400.646	5 3401.485
3401.499	3402.681	3401.024	3402.002
3402.074	3403.548	3401.484	3402.662
3402.638	3404.132	3402.044	3403.435
3403.572	3405.014	3402.689	3404.104
10 3403.703	10 3406.655	10 3403.484	10 3405.000
3404.140	3407.313	3403.687	3405.500
3404.288	3407.812	3404.141	3406.589
3405.022	3408.826	3405.024	3406.635
3406.607	3409.085	3405.537	3407.299
15 3407.324	15 3409.188	15 3406.647	15 3407.444
3407.816	3409.625	3407.326	3407.804
3408.646	3409.969	3407.476	3408.013
3409.097	3410.190	3407.820	3408.747
3409.197		3408.029	3408.834
20 3409.632		20 3408.808	20 3409.168
3409.978		3409.092	3409.614
3410.196		3409.197	3409.954
		3409.635	3410.175
		3409.979	
		25 3410.199	

670

	A	B	C	D
	3410.196	3410.190	3410.199	3410.175
	3410.471	3410.466	3410.475	3410.453
	3411.099	3410.648	3410.658	3410.633
	3411.161	3411.099	3411.104	3411.110
5	3411.714	5 3411.707	5 3411.153	5 3411.700
	3411.847	3411.839	3411.720	3411.823
	3412.465	3412.456	3411.847	3412.440
	3413.057	3413.032	3412.466	3413.048
	3413.353	3413.337	3413.007	3413.125
10	3413.563	10 3413.553	10 3413.564	10 3413.537
	3413.844	3413.844	3413.850	3413.821
	3413.992	3413.988	3413.998	3413.896
	3414.463	3414.451	3414.464	3414.319
	3414.922	3414.915	3414.924	3414.436
15	3415.093	15 3415.081	15 3415.092	15 3414.903
	3415.430	3415.422	3415.434	3415.070
	3415.528	3415.522	3415.530	3415.467
	3415.661	3415.649	3415.660	3415.868
	3415.743	3415.883	3415.891	3416.124
20	3415.889	20 3416.021	20 3416.035	20 3416.299
	3416.034	3416.144	3416.155	3416.626
	3416.155	3416.314	3416.330	3416.795
	3416.647	3416.641	3416.650	3417.142
	3416.822	3416.812	3416.822	3417.529
25	3417.172	25 3417.160	25 3417.171	25 3417.783
	3417.365	3417.547	3417.366	3418.324
	3417.803	3417.793	3417.556	3419.355
	3418.445	3418.423	3417.807	3419.769
	3419.123	3419.116	3418.405	3420.073
30	3419.452	30 3419.428	30 3419.130	30 3420.197
	3419.936	3419.901	3419.381	
			3420.108	

571

A	B	C	D
3420.440	3420.416	3420.747	3420.073
3421.179	3421.168	3421.180	3422.541
3421.709	3421.663	3421.877	3423.320
3422.336	3422.287	3422.405	3424.022
5 3423.173	5 3423.107	5 3423.110	5 3424.109
3423.253	3423.231	3423.230	3424.396
3424.076	3424.062	3424.069	3424.570
3424.225	3424.207	3424.215	3424.988
3424.418	3424.412	3424.420	3425.190
10 3425.013	10 3425.002	10 3424.599	10 3425.660
3425.216	3425.205	3425.014	3426.158
3426.180	3425.677	3425.219	3426.551
3426.790	3426.170	3425.462	3426.781
3427.093	3426.555	3425.684	3427.070
15 3427.337	15 3426.783	15 3425.902	15 3427.709
3427.697	3427.083	3426.177	3428.056
3429.263	3427.334	3426.564	3429.238
3429.569	3427.861	3426.798	3429.550
3430.223	3429.255	3427.094	3429.748
	20 3429.564	20 3427.341	20 3430.206
	3429.767	3427.850	
	3430.214	3427.969	
		3428.540	
		3429.264	
		25 3429.573	
		3429.773	
		3430.228	

	A		B		C		D
	3430.413		3430.214		3430.227		3430.206
	3430.834		3430.407		3430.416		3430.392
	3431.036		3430.829		3430.813		3430.808
	3432.126		3430.989		3431.084		3431.258
5	3432.475	5	3432.119	5	3432.128	5	3432.103
	3432.583		3432.467		3432.478		3432.464
	3432.816		3432.579		3432.589		3432.883
	3433.100		3432.791		3432.744		3433.740
	3433.770		3433.762		3433.772		3434.018
10	3434.049	10	3434.038	10	3434.050	10	3434.541
	3434.506		3434.558		3434.567		3434.685
	3435.085		3434.707		3434.702		3435.064
	3435.636		3435.080		3435.087		3435.669
	3435.973		3435.679		3435.687		3435.923
15	3436.287	15	3435.962	15	3435.964	15	3436.228
	3436.453		3436.279		3436.285		3436.433
	3436.820		3436.442		3436.439		3436.794
	3436.918		3436.808		3436.821		3437.425
	3437.396		3436.910		3436.920		3437.750
20	3437.469	20	3437.392	20	3437.395	20	3438.011
	3437.762		3437.752		3437.755		3438.617
	3437.980		3437.979		3437.989		3439.168
	3438.188		3438.169		3438.181		3439.563
	3438.440		3438.430		3438.434		3439.906
25	3438.635	25	3438.615	25	3438.628	25	3440.117
	3438.745		3438.733		3438.742		
	3439.186		3439.179		3439.188		
	3439.307		3439.296		3439.303		
	3439.573		3439.567		3439.575		
30	3439.663	30	3439.656	30	3439.656		
	3439.756		3439.751		3439.759		
	3439.919		3439.906		3439.910		
	3440.165		3440.153		3440.158		

	A	B	C	D
	3440.165	3440.153	3440.158	3440.117
	3440.383	3440.374	3440.382	3440.361
	3440.605	3440.598	3440.609	3440.568
	3440.715	3440.709	3440.713	3440.630
5	3440.798	5 3441.313	5 3441.321	5 3441.301
	3441.319	3441.482	3441.495	3441.469
	3441.892	3441.771	3441.779	3441.945
	3441.775	3442.065	3442.014	3443.307
	3442.072	3442.552	3443.188	3444.194
10	3442.163	10 3442.750	10 3444.215	10 3444.358
	3442.443	3443.090	3444.379	3444.511
	3442.766	3444.203	3444.536	3444.950
	3443.096	3444.364	3445.055	3445.807
	3443.194	3444.524	3445.597	3446.648
15	3444.212	15 3444.832	15 3445.741	15 3448.904
	3444.375	3445.001	3445.844	3449.747
	3444.553	3445.103	3446.297	3450.152
	3444.382	3445.591	3447.575	
	3445.000	3445.731	3448.507	
20	3445.145	20 3445.834	20 3448.683	
	3445.739	3446.294	3448.937	
	3445.952	3446.780	3449.321	
	3446.177	3448.336	3449.776	
	3446.303	3448.680	3450.184	
25	3446.867	25 3448.925		
	3447.221	3449.765		
	3448.380	3450.175		
	3448.693			
	3448.937			
30	3449.775			
	3450.183			

	A	B	C	D
	3450.183	3450.175	3450.184	3450.152
	3451.238	3451.231	3450.876	3450.844
	3451.954	3451.946	3451.239	3451.211
	3452.628	3452.624	3451.798	3451.776
5	3453.117	5 3453.107	5 3451.955	5 3451.928
	3454.023	3454.010	3452.352	3452.342
	3454.529	3454.523	3452.640	3452.598
	3455.769	3455.737	3453.115	3453.047
	3456.245	3456.230	3453.729	3453.106
10	3456.597	10 3456.593	10 3454.023	10 3453.705
	3456.746	3456.739	3454.536	3453.981
	3456.874	3456.866	3455.700	3454.513
	3457.338	3457.329	3456.219	3455.597
	3457.428	3457.565	3456.599	3456.342
15	3457.578	15 3458.037	15 3456.746	15 3456.576
	3458.045	3458.253	3456.872	3456.719
	3458.257	3458.534	3457.340	3457.318
	3458.545	3458.739	3457.508	3457.508
	3458.751	3458.911	3457.560	3458.029
20	3458.922	20 3459.268	20 3457.796	20 3458.419
	3459.276	3459.511	3458.045	3458.784
	3459.518	3459.635	3458.258	3459.490
	3459.642	3460.000	3458.484	3459.977
	3460.006		3458.725	3460.226
25	3460.206		25 3459.277	
			3459.519	
			3459.642	
			3459.727	
			3460.009	

	A	B	C	D
	[illegible]	3460.372	3460.290	3460.691
	[illegible]	3460.575	3460.619	3463.078
	[illegible]	3460.693	3461.095	3464.337
	[illegible]	3461.030	3461.656	3464.556
5	[illegible]	5 3461.285	5 3462.951	5 3464.974
	[illegible]	3461.525	3463.380	3465.116
	[illegible]	3461.678	3463.998	3465.885
	[illegible]	3462.535	3464.373	3467.505
	[illegible]	3463.375	3464.638	3467.771
10	[illegible]	10 3463.587	10 3465.307	10 3468.421
	[illegible]	3464.266	3465.146	3468.984
	[illegible]	3464.608	3465.943	3469.222
	[illegible]	3465.002	3466.115	3469.490
	[illegible]	3465.324	3466.599	3470.151
15	[illegible]	15 3465.940	15 3467.147	15 3470.238
	[illegible]	3466.045	3467.479	
	[illegible]	3466.583	3467.808	
	[illegible]	3466.844	3468.522	
	[illegible]	3467.111	3469.015	
20	[illegible]	20 3467.479	20 3469.252	
	[illegible]	3467.800	3469.524	
	[illegible]	3468.534	3469.986	
	[illegible]	3469.007		
	[illegible]	3469.245		
25	[illegible]	25 3469.516		
	[illegible]	3469.976		
	[illegible]			
	3469.981			

A	B	C	D
3600.195	3603.156	3610.244	3610.202
3600.735	3603.990		
3601.407	3604.231		
3601.689	3610.207		
3601.975			
3602.082			
3602.345			
3602.469			
3602.956			
3603.498			
3603.632			
3603.996			
3604.235			
3604.785			
3604.893			
3605.245			
3605.372			
3605.521			
3605.659			
3605.831			
3606.076			
3606.444			
3607.313			
3607.642			
3607.823			
3608.042			
3608.196			
3608.400			
3609.667			
3610.158			

A	B	C	D
3590.187	3590.424	3600.146	3600.156
3590.428	3590.842		
3590.679	3591.591		
3590.775	3592.005		
3590.855	3597.063		
3591.253	3597.285		
3591.345	3600.186		
3591.600			
3591.787			
3592.012			
3592.286			
3592.611			
3593.027			
3593.522			
3593.786			
3593.961			
3594.165			
3594.283			
3594.410			
3594.580			
3595.118			
3595.788			
3595.957			
3596.266			
3596.896			
3597.064			
3597.287			
3597.980			
3598.551			
3598.913			
3598.969			
3599.044			
3599.373			
3599.542			
3600.017			
3600.195			

A	B	C	D
3580.076	3580.111	3590.227	3590.154
3580.297	3580.680		
3580.516	3580.892		
3580.686	3581.043		
3580.894	3581.317		
3581.037	3581.414		
3581.120	3581.520		
3581.318	3581.870		
3581.423	3582.017		
3581.529	3582.341		
3581.881	3582.757		
3582.019	3583.782		
3582.359	3584.354		
3582.689	3585.264		
3583.367	3590.206		
3583.628			
3584.263			
3584.362			
3584.748			
3585.198			
3585.640			
3585.710			
3585.847			
3586.380			
3587.149			
3587.469			
3587.796			
3587.959			
3588.756			
3589.581			
3589.717			
3590.187			

A	B	C	D
3570.034	3570.636	3571.764	3580.146
3570.168	3571.761	3572.210	
3570.248	3572.197	3575.760	
3570.483	3572.735	3577.434	
3570.557	3572.850	3577.976	
3571.262	3573.091	3578.658	
3571.767	3573.389	3580.174	
3572.207	3573.639		
3572.740	3574.078		
3572.851	3574.551		
3572.941	3575.140		
3573.116	3575.758		
3573.391	3576.941		
3573.637	3577.992		
3574.080	3578.560		
3574.221	3578.648		
3574.439	3579.071		
3574.524	3579.355		
3574.795	3580.111		
3575.000			
3575.044			
3575.343			
3575.767			
3576.359			
3576.507			
3576.794			
3577.148			
3578.004			
3578.566			
3578.658			
3579.070			
3579.288			
3580.023			
3580.075			

A	B	C	D
3560.034	3560.766	3570.075	3570.198
3560.156	3560.887		
3560.771	3561.265		
3560.893	3561.566		
3561.153	3561.904		
3561.218	3562.373		
3561.422	3562.682		
3561.576	3562.919		
3561.911	3564.063		
3562.060	3564.706		
3562.299	3564.993		
3562.693	3568.838		
3562.928	3569.605		
3563.508	3570.027		
3563.938			
3564.423			
3564.661			
3565.008			
3565.551			
3567.204			
3568.419			
3568.813			
3569.277			
3569.617			
3570.033			
3570.168			
3570.248			

A	B	C	D
3550.004	3550.201	3550.190	3560.162
3550.201	3550.413	3554.383	
3550.395	3550.735	3554.894	
3550.745	3550.879	3555.189	
5 3550.884	5 3551.278	5 3555.551	
3551.000	3551.935	3555.678	
3551.280	3552.781	3556.027	
3551.411	3553.401	3557.049	
3551.798	3553.871	3557.579	
10 3552.327	10 3554.338	10 3558.026	
3552.588	3554.428	3558.385	
3552.800	3554.759	3558.857	
3552.904	3554.889	3559.193	
3553.410	3555.119	3560.239	
15 3553.706	15 3555.540		
3553.836	3555.666		
3554.344	3555.909		
3554.440	3556.011		
3554.771	3557.001		
20 3554.900	20 3557.534		
3555.127	3557.985		
3555.547	3558.375		
3555.670	3558.842		
3556.020	3558.926		
25 3556.498	25 3559.094		
3556.690	3559.318		
3557.076	3559.730		
3557.543	3560.237		
3557.917			
30 3557.992			
3558.383			
3558.850			
3558.930			
3559.107			
35 3559.201			
3559.328			
3559.737			
3560.037			
3560.156			

A	B	C	D
3540.046	3540.141	3540.222	3550.145
3540.166	3540.302	3540.309	
3540.315	3540.482	3540.492	
3540.489	3540.659	3540.706	
3540.673	3540.851	3541.325	
3540.868	3541.312	3541.613	
3541.323	3541.601	3548.866	
3541.610	3542.239	3549.344	
3542.240	3542.657	3549.637	
3542.349	3543.605	3550.190	
3542.713	3544.245		
3542.872	3545.574		
3542.995	3545.974		
3543.570	3546.300		
3543.850	3546.490		
3544.115	3547.483		
3544.633	3548.495		
3544.986	3548.854		
3545.542	3549.337		
3545.987	3549.630		
3546.303	3549.998		
3546.493	3550.201		
3546.820			
3547.209			
3547.505			
3547.597			
3548.094			
3548.326			
3548.865			
3549.014			
3549.345			
3549.639			
3550.003			
3550.201			

	A	B	C	D
	3530.066	3530.055	3530.114	3540.095
	3530.477	3530.653	3531.674	
	3530.704	3530.770	3531.843	
	3530.928	3531.292	3532.208	
5	3531.350	3531.355	3532.520	
	3531.667	3531.657	3532.712	
	3531.839	3531.831	3532.822	
	3532.204	3532.196	3533.524	
	3532.514	3532.505	3534.270	
10	3532.710	3532.701	3534.509	
	3533.417	3533.511	3535.017	
	3533.521	3534.251	3536.124	
	3534.262	3534.495	3537.190	
	3534.507	3535.002	3537.356	
15	3535.006	3536.111	3537.585	
	3536.163	3536.850	3537.739	
	3536.562	3537.152	3537.958	
	3536.865	3537.349	3538.130	
	3537.166	3537.572	3538.347	
20	3537.356	3537.710	3538.490	
	3537.581	3537.948	3538.830	
	3537.720	3538.115	3539.401	
	3537.956	3538.335	3539.618	
	3538.125	3538.477	3539.805	
25	3538.344	3538.760	3540.138	
	3538.479	3539.377	3540.22[illegible]	
	3538.774	3539.601		
	3539.389	3539.791		
	3539.611	3540.141		
30	3539.798			
	3540.046			
	3540.166			

A	B	C	D
3520.231	3520.219	3520.226	3530.178
3520.448	3520.434	3520.446	
3520.658	3520.548	3520.550	
3520.803	3520.652	3520.661	
3520.937	3520.797	3520.943	
3521.107	3520.932	3521.323	
3521.283	3521.086	3529.582	
3521.917	3521.267	3530.114	
3522.212	3521.917		
3522.430	3522.184		
3522.669	3523.244		
3523.098	3524.158		
3523.960	3524.771		
3524.060	3524.991		
3524.572	3525.489		
3524.817	3525.714		
3525.013	3526.016		
3525.594	3526.378		
3526.025	3526.564		
3526.386	3527.458		
3526.565	3528.114		
3526.947	3528.853		
3527.471	3530.055		
3527.958			
3528.076			
3528.725			
3528.970			
3529.561			
3530.066			
3530.263			

	A	B	C	D
	3510.493	3510.484	3510.805	3515.669
	3510.642	3510.597	3511.750	3520.207
	3510.835	3510.821	3512.048	
	3511.551	3511.474	3512.373	
5	3512.076	5 3512.061	5 3512.601	
	3512.371	3512.364	3513.066	
	3512.607	3512.595	3513.305	
	3513.051	3513.023	3513.675	
	3513.303	3513.290	3513.813	
10	3513.668	10 3513.666	10 3514.121	
	3513.824	3513.811	3514.297	
	3514.037	3514.031	3514.396	
	3514.157	3514.148	3514.535	
	3514.299	3514.292	3514.820	
15	3514.393	15 3514.386	15 3514.898	
	3514.538	3514.526	3515.390	
	3514.816	3514.810	3515.710	
	3514.903	3515.379	3516.015	
	3515.386	3515.697	3516.120	
20	3515.709	20 3516.003	20 3516.217	
	3515.805	3516.111	3516.616	
	3516.013	3516.205	3516.932	
	3516.118	3516.922	3517.072	
	3516.215	3517.059	3517.333	
25	3516.925	25 3517.401	25 3517.549	
	3517.069	3517.792	3517.801	
	3517.427	3518.058	3518.067	
	3517.798	3518.211	3518.219	
	3518.065	3518.433	3518.445	
30	3518.217	30 3518.513	30 3519.208	
	3518.440	3518.602	3519.638	
	3518.520	3518.882	3519.893	
	3518.605	3519.089	3520.226	
	3518.955	3519.631		
35	3519.138	35 3519.825		
	3519.635	3520.219		
	3519.840			
	3520.231			

A	B	C	D
3500.246	3500.237	3500.252	3510.222
3500.317	3500.665	3500.312	
3500.675	3500.859	3500.678	
3500.865	3501.039	3500.865	
3501.055	3501.213	3505.017	
3501.222	3501.430	3505.568	
3501.460	3501.789	3506.088	
3501.536	3502.205	3506.678	
3501.810	3502.368	3506.763	
3501.972	3502.787	3507.007	
3502.120	3503.481	3507.214	
3502.220	3504.115	3507.682	
3502.390	3504.453	3507.828	
3502.852	3504.834	3508.373	
3503.196	3505.253	3508.646	
3503.334	3505.540	3510.197	
3503.566	3505.838		
3504.151	3506.058		
3504.336	3506.675		
3504.461	3506.998		
3504.687	3507.207		
3505.263	3507.818		
3505.550	3508.367		
3505.858	3508.733		
3505.944	3509.684		
3506.072	3510.254		
3506.693			
3507.006			
3507.211			
3507.824			
3508.373			
3508.804			
3509.366			
3509.499			
3510.251			

	A	B	C	D
	3490.550	3490.538	3490.538	3490.453
	3490.648	3490.986	3490.949	3491.694
	3491.002	3491.877	3491.098	3492.316
	3491.096	3492.356	3491.878	3492.660
5	3491.162	3492.695	3492.363	3493.244
	3491.305	3493.416	3492.703	3493.571
	3491.794	3493.657	3493.398	3494.035
	3491.886	3494.144	3493.667	3494.822
	3492.363	3494.493	3494.154	3496.161
10	3492.702	3494.622	3494.503	3497.481
	3493.430	3494.921	3494.630	3497.898
	3493.663	3495.090	3494.943	3498.450
	3494.153	3495.170	3496.870	3499.044
	3494.494	3496.022	3497.179	3500.178
15	3494.624	3496.275	3497.437	
	3494.924	3496.645	3497.584	
	3495.138	3497.166	3497.978	
	3495.380	3497.426	3498.167	
	3496.024	3497.574	3498.585	
20	3496.163	3497.969	3499.111	
	3496.277	3498.155	3499.677	
	3496.382	3498.583	3499.927	
	3496.575	3499.101		
	3496.638	3499.697		
25	3497.180	3499.900		
	3497.432	3500.237		
	3497.582			
	3497.977			
	3498.170			
30	3498.596			
	3499.110			
	3499.731			
	3499.918			
	3500.246			

A	B	C	D
3480.215	3480.208	3480.355	3483.985
3480.384	3480.349	3481.360	3484.963
3480.595	3480.788	3482.621	3487.666
3480.875	3481.344	3484.105	3489.173
3481.356	3481.641	3484.479	3489.516
3481.651	3482.123	3484.770	3489.868
3482.167	3482.418	3484.992	
3482.467	3483.842	3485.133	
3483.840	3484.097	3485.665	
3484.120	3484.469	3486.389	
3484.479	3485.009	3486.674	
3484.764	3485.133	3487.025	
3485.021	3485.694	3487.813	
3485.148	3486.430	3488.498	
3485.726	3486.668	3489.077	
3486.460	3487.011	3489.235	
3486.677	3487.822	3489.319	
3486.762	3488.323	3489.567	
3487.817	3489.068	3489.927	
3487.974	3489.228	3490.242	
3488.296	3489.559		
3488.568	3489.918		
3489.077	3490.239		
3489.233			
3489.319			
3489.565			
3489.926			
3490.207			

678

	A	B	C	D
	3470.330	3470.307	3470.233	3470.238
	3470.554	3470.540	3470.492	3471.089
	3471.121	3470.875	3470.875	3471.245
	3471.271	3471.114	3471.122	3471.626
5	3471.698	3471.266	3471.273	3472.454
	3471.786	3471.698	3471.702	3472.802
	3471.950	3471.774	3471.938	3472.934
	3472.484	3471.936	3472.488	3473.102
	3472.831	3472.479	3472.833	3473.974
10	3472.958	3472.820	3472.960	3474.470
	3473.141	3472.954	3473.153	3475.755
	3473.295	3473.139	3473.249	3475.899
	3473.357	3473.291	3474.004	3476.295
	3473.465	3473.990	3474.732	3476.696
15	3473.670	3474.709	3475.218	3477.061
	3474.000	3474.926	3475.793	3477.248
	3474.743	3475.787	3475.941	3477.333
	3474.912	3475.933	3476.339	3477.724
	3474.988	3476.331	3476.745	3477.972
20	3475.794	3476.735	3477.097	3478.083
	3475.941	3477.089	3477.286	3478.653
	3476.337	3477.271	3477.375	3478.955
	3476.747	3477.363	3477.543	3479.221
	3477.097	3477.538	3477.764	3480.221
25	3477.282	3477.753	3477.839	
	3477.373	3477.833	3478.012	
	3477.756	3477.998	3478.116	
	3477.841	3478.682	3478.688	
	3478.008	3478.989	3479.048	
30	3479.358	3479.345	3479.344	
	3479.637	3479.625	3479.630	
	3480.215	3480.208	3480.196	

677

A	B	C	D
3610.158	3620.217	3620.122	3620.193
3610.351			
3610.604			
3610.698			
3610.784			
3611.268			
3611.941			
3614.250			
3615.330			
3615.624			
3615.803			
3615.921			
3616.048			
3616.365			
3616.657			
3617.104			
3618.166			
3619.896			

A	B	C	D
3620.728	3630.220	3630.197	3630.087
3621.045			
3621.654			
3622.025			
3622.138			
3622.378			
3622.478			
3623.127			
3623.527			
3623.621			
3623.887			
3623.949			
3624.115			
3624.219			
3624.590			
3625.146			
3626.069			
3626.504			
3626.617			
3626.791			
3626.882			
3630.128			

A	B	C	D
3630.852	3635.449	3640.139	3640.221
3631.823	3635.662		
3632.251	3636.218		
3632.402	3636.622		
3632.644	3637.235		
3632.792	3638.387		
3632.866	3639.001		
3633.075	3639.576		
3633.624	3640.130		
3634.042			
3634.254			
3634.969			
3635.139			
3635.403			
3635.656			
3635.945			
3636.219			
3636.622			
3636.812			
3637.148			
3637.209			
3637.807			
3637.948			
3638.321			
3639.013			
3639.578			
3639.893			
3640.133			

A	B	C	D
3640.133	3643.421	3650.197	3650.217
3640.749	3643.871		
3641.127	3650.240		
3641.322			
3641.632			
3642.289			
3642.502			
3643.013			
3643.289			
3643.656			
3643.867			
3644.142			
3644.317			
3644.492			
3645.241			
3645.892			
3646.494			
3650.164			

A	B	C	D
3652.378	3654.313	3660.244	3660.227
3652.709	3658.564		
3652.875	3660.073		
3653.841			
3654.314			
3654.797			
3655.323			
3655.490			
3656.795			
3658.424			
3658.554			
3659.865			

A	B	C	D
3660.368	3660.383	3670.209	3670.236
3660.691	3660.717		
3660.834	3660.846		
3661.107	3661.110		
3661.366	3661.377		
3661.763	3661.823		
3661.965	3661.984		
3662.146	3662.156		
3662.781	3662.927		
3662.913	3663.055		
3663.036	3663.346		
3663.312	3663.846		
3663.836	3664.397		
3664.386	3664.675		
3664.666	3664.974		
3664.753	3665.084		
3664.963	3665.437		
3665.078	3666.120		
3665.319	3670.186		
3665.411			
3665.897			
3666.074			
3666.495			
3666.833			
3666.928			
3667.014			
3667.152			
3667.399			
3668.069			
3669.208			
3670.112			

A	B	C	D
3671.498	3680.177	3680.202	3680.210
3671.930			
3672.730			
3672.896			
3673.218			
3677.527			
3678.028			
3678.237			
3678.527			
3678.627			
3678.718			
3679.664			

A	B	C	D
3680.314	3681.116	3690.250	3690.246
3680.416	3681.365		
3680.746	3681.733		
3680.968	3681.938		
3681.091	3682.595		
3681.304	3682.970		
3681.414	3683.252		
3681.543	3683.981		
3681.702	3690.192		
3681.896			
3682.042			
3682.376			
3682.562			
3682.674			
3682.760			
3682.950			
3683.221			
3683.367			
3683.606			
3683.809			
3683.927			
3684.242			
3684.444			
3684.521			
3685.311			
3685.526			
3686.086			
3686.439			
3686.705			
3687.147			
3689.156			
3689.902			

A	B	C	D
3691.825	3694.452	3700.163	3700.159
3692.033	3695.269		
3692.479	3695.789		
3692.692	3697.345		
3693.263	3697.677		
3693.769	3698.230		
3694.144	3698.568		
3694.357	3698.890		
3694.775	3699.368		
3695.022	3699.528		
3695.156	3700.214		
3695.622			
3695.693			
3695.760			
3696.161			
3696.399			
3696.510			
3696.883			
3697.179			
3697.303			
3697.639			
3697.803			
3697.991			
3698.153			
3698.391			
3698.531			
3698.854			
3699.261			
3699.490			
3699.625			
3699.765			
3700.033			
3700.152			

A	B	C	D
3700.034	3710.111	3710.186	3710.179
3700.152			
3700.727			
3700.894			
3702.081			
3702.573			
3702.822			
3702.898			
3703.266			
3703.600			
3703.804			
3704.671			
3704.854			
3704.998			
3705.085			
3705.388			
3705.464			
3705.698			
3706.413			
3706.566			
3706.831			
3707.054			
3707.419			
3707.675			
3707.833			
3707.905			
3708.010			
3708.254			
3708.361			
3708.597			
3709.887			

A	B	C	D
3713.147	3719.923	3720.196	3720.138
3713.397			
3713.747			
3713.960			
3714.363			
3714.512			
3714.755			
3715.435			
3715.549			
3715.703			
3716.017			
3716.155			
3716.306			
3716.576			
3716.820			
3717.065			
3717.798			
3718.390			
3718.579			
3719.075			
3719.385			
3719.753			
3720.122			

A	B	C	D
3720.122	3730.195	3730.225	3730.146
3720.329			
3720.440			
3721.159			
3721.489			
3722.898			
3723.279			
3723.825			
3723.952			
3724.202			
3724.538			
3725.045			
3725.620			
3725.750			
3726.796			
3727.001			
3727.727			
3728.174			
3728.266			
3728.406			
3728.744			
3728.882			
3729.255			
3729.385			
3729.709			
3730.020			
3730.118			

	A	B	C	D
	3730.118	3740.125	3740.233	3740.179
	3730.500			
	3730.672			
	3731.012			
5	3732.852			
	3733.457			
	3737.620			
	3737.833			
	3738.523			
10	3739.058			
	3739.370			

A	B	C	D
3740.327	3750.246	3750.083	3750.238
3741.447			
3741.705			
3741.820			
3741.990			
3742.094			
3742.369			
3742.565			
3746.406			
3746.909			
3747.585			
3750.241			

	A	B	C	D
	3881.101	3887.258	3890.178	3890.192
	3881.646	3888.002		
	3881.863	3888.612		
	3882.843	3889.604		
5	3882.935	5 3890.090		
	3883.152			
	3883.379			
	3884.871			
	3886.314			
10	3886.756			
	3886.912			
	3887.283			
	3888.020			
	3888.631			
15	3888.721			
	3889.634			
	3889.777			

A	B	C	D
3871.166	3876.274	3880.179	3880.173
3871.494	3876.525		
3871.788	3877.382		
3871.980	3877.768		
3872.586	3878.167		
3872.726	3880.200		
3873.203			
3874.677			
3875.140			
3875.458			
3876.277			
3876.555			
3876.904			
3877.413			
3877.788			
3878.181			
3879.480			
3880.138			

A	B	C	D
3860.306	3866.652	3870.115	3870.221
3860.497	3870.213		
3861.500			
3861.979			
3862.262			
3862.484			
3862.994			
3863.272			
3863.400			
3863.769			
3865.584			
3865.845			
3866.123			
3866.558			
3866.669			
3866.755			
3867.204			
3867.398			
3867.523			
3867.643			
3867.748			
3867.963			
3868.219			
3868.622			
3870.036			

A	B	C	D
3850.093	3858.988	3860.189	3860.133
3850.303	3859.991		
3855.256			
3856.445			
3856.756			
3857.447			
3857.819			
3857.943			
3858.170			
3858.391			
3859.027			
3859.296			
3859.402			
3859.605			
3860.048			

	A	B	C	D
	3841.281	3846.301	3850.221	3850.219
	3841.648	3847.241		
	3842.413	3847.719		
	3842.734	3850.189		
5	3843.418			
	3843.957			
	3844.322			
	3844.809			
	3845.349			
10	3845.553			
	3846.241			
	3846.393			
	3846.706			
	3847.262			
15	3847.741			
	3848.107			
	3848.543			
	3848.888			
	3849.069			
20	3849.524			
	3849.825			
	3850.093			

A	B	C	D
3830.050	3840.250	3840.217	3840.186
3830.150			
3830.210			
3830.360			
3832.056			
3832.466			
3832.598			
3832.767			
3833.358			
3833.684			
3834.012			
3834.212			
3835.512			
3835.867			
3835.984			
3836.156			
3838.657			
3839.283			
3840.182			

A	B	C	D
3822.279	3828.520	3830.172	3830.238
3823.101	3829.401		
3823.215	3830.148		
3824.030			
3824.302			
3825.099			
3825.503			
3825.939			
3826.080			
3826.207			
3826.327			
3827.017			
3827.374			
3827.497			
3827.657			
3827.932			
3828.041			
3828.563			
3828.887			
3828.980			
3829.292			
3829.452			
3829.872			
3830.050			
3830.150			
3830.210			

A	B	C	D
3810.317	3810.201	3820.207	3820.116
3810.589	3810.535		
3810.816	3810.750		
3811.092	3811.192		
3811.246	3811.711		
3811.781	3812.458		
3812.344	3812.907		
3812.539	3820.183		
3812.652			
3812.976			
3813.485			
3813.786			
3813.971			
3814.167			
3814.627			
3816.953			
3817.229			
3817.959			
3818.308			
3818.600			
3818.726			
3819.208			
3820.204			

A	B	C	D
3800.316	3809.662	3810.242	3810.239
3803.179	3810.201		
3803.822			
3804.572			
3804.889			
3804.966			
3805.225			
3806.504			
3807.612			
3808.005			
3808.159			
3808.389			
3808.585			
3808.985			
3809.096			
3809.188			
3809.298			
3809.419			
3809.794			
3810.088			

	A	B	C	D
	3790.066	3800.106	3800.201	3800.200
	3790.141			
	3790.423			
	3790.658			
5	3790.888			
	3791.311			
	3791.631			
	3791.816			
	3791.946			
10	3792.181			
	3792.607			
	3792.754			
	3793.732			
	3793.811			
15	3794.179			
	3794.631			
	3795.163			
	3795.490			
	3795.617			
20	3795.789			
	3796.883			
	3797.692			
	3798.177			
	3798.572			
25	3798.794			
	3798.995			
	3799.385			
	3799.507			
	3799.904			
30	3800.149			

A	B	C	D
3780.908	3790.088	3790.195	3790.219
3781.393			
3781.631			
3781.795			
3781.908			
3782.170			
3782.625			
3782.743			
3782.961			
3783.720			
3783.953			
3784.047			
3784.354			
3785.194			
3785.672			
3786.185			
3786.680			
3786.904			
3787.117			
3787.412			
3787.655			
3788.057			
3788.327			
3788.782			
3788.902			
3789.243			
3789.611			
3789.881			
3790.066			
3790.141			
3790.235			

A	B	C	D
3770.481	3780.221	3780.142	3780.124
3771.527			
3771.774			
3772.298			
3772.510			
3773.371			
3773.457			
3773.906			
3774.041			
3774.465			
3774.852			
3775.651			
3775.742			
3776.061			
3776.274			
3776.432			
3776.536			
3776.892			
3777.069			
3777.519			
3777.886			
3778.255			
3778.331			
3778.651			
3779.204			
3780.099			

A	B	C	D
3760.346	3770.226	3770.098	3770.197
3761.136			
3761.333			
3761.664			
3762.159			
3762.360			
3762.423			
3763.054			
3763.253			
3763.653			
3764.243			
3764.579			
3764.871			
3765.082			
3766.076			
3766.733			
3767.124			
3767.453			
3767.881			
3768.078			
3768.671			
3768.926			
3770.261			

A	B	C	D
3753.789	3760.213	3760.243	3760.223
3754.639			
3754.795			
3755.024			
3755.165			
3755.372			
3755.660			
3755.811			
3756.784			
3757.619			
3758.042			
3758.397			
3758.613			
3758.886			
3760.218			

A	B	C	D
3890.947	3892.941	3900.249	3900.210
3892.075	3894.296		
3892.766	3895.114		
3893.665	3895.664		
5 3893.779	5 3896.329		
3894.043	3896.414		
3894.254	3896.755		
3895.045	3897.198		
38[illegible]5.135	3897.557		
10 3895.679	10 3900.042		
3896.332			
3896.416			
3896.469			
3896.619			
15 3896.772			
3897.211			
3897.556			
3897.925			
3898.210			
20 3898.741			
3899.661			

A	B	C	D
3901.405	3906.344	3907.743	3910.136
3903.186	3907.420	3908.485	
3904.492	3907.731	3908.570	
3904.905	3908.471	3909.011	
3904.997	3908.561	3909.349	
3905.387	3909.013	3909.905	
3905.873	3909.340	3910.141	
3906.171	3909.895		
3906.477	3910.154		
3907.437			
3907.743			
3908.480			
3908.575			
3909.031			
3909.348			
3909.426			
3909.908			
3910.170			

A	B	C	D
3910.170	3910.154	3910.141	3920.237
3910.328	3910.316	3910.517	
3910.435	3910.422	3910.759	
3910.534	3910.520	3911.135	
3910.762	3910.753	3911.337	
3911.142	3911.128	3911.417	
3911.337	3911.329	3912.034	
3911.418	3911.408	3912.324	
3912.039	3912.025	3912.651	
3912.328	3912.319	3912.996	
3912.697	3912.678	3913.406	
3913.021	3913.008	3913.858	
3913.422	3913.411	3914.147	
3913.855	3913.988	3914.820	
3914.024	3914.172	3920.133	
3914.193	3914.809		
3914.819	3915.131		
3915.134	3915.265		
3915.271	3915.662		
3915.663	3916.264		
3916.219	3917.665		
3916.595	3918.921		
3916.781	3919.704		
3917.425	3920.216		
3917.688			
3918.319			
3918.739			
3918.930			
3919.899			
3920.224			

A	B	C	D
3920.224	3921.086	3921.066	3930.071
3921.100	3921.303	3921.487	
3921.321	3921.506	3922.531	
3921.517	3922.521	3926.026	
3922.532	3922.869	3927.421	
3922.890	3923.517	3928.080	
3922.997	3925.482	3930.187	
3923.165	3925.862		
3923.395	3926.018		
3923.751	3927.071		
3924.313	3927.435		
3924.422	3927.991		
3924.604	3928.177		
3925.124	3928.500		
3925.278	3929.232		
3925.878	3929.979		
3926.026			
3926.116			
3927.083			
3927.447			
3928.021			
3928.206			
3928.510			
3929.246			
3929.990			

A	B	C	D
3930.489	3930.516	3935.193	3932.151
3931.152	3931.136	3935.619	3936.966
3931.363	3931.352	3935.782	3940.156
3932.060	3932.325	3936.024	
5 3932.449	5 3932.984	5 3936.481	
3933.013	3933.971	3937.081	
3934.046	3934.581	3937.951	
3934.592	3935.087	3939.168	
3935.111	3935.372	3939.477	
10 3935.276	10 3935.618	10 3940.136	
3935.384	3935.779		
3935.631	3936.471		
3935.792	3937.073		
3937.084	3938.013		
15 3937.177	15 3938.221		
3938.052	3939.053		
3938.271	3939.469		
3938.447	3940.128		
3939.092			
20 3939.483			
3940.134			

	A	B	C	D
	3940.134	3940.128	3940.136	3949.524
	3940.296	3940.287	3940.292	3949.601
	3940.575	3940.540	3940.525	3950.183
	3941.273	3941.372	3941.378	
5	3941.382	5 3941.670	5 3944.847	
	3941.699	3942.344	3945.017	
	3942.507	3944.349	3945.254	
	3942.894	3945.010	3946.184	
	3944.338	3945.247	3946.605	
10	3944.661	10 3946.166	10 3949.479	
	3945.020	3946.597	3949.573	
	3945.256	3946.792	3950.167	
	3946.608	3947.119		
	3946.793	3947.545		
15	3946.952	15 3948.209		
	3947.149	3949.412		
	3947.393	3949.471		
	3948.108	3949.568		
	3948.664	3949.629		
20	3948.812	20 3950.120		
	3949.417			
	3949.557			
	3949.869			
	3950.049			

	A	B	C	D
	3950.048	3950.588	3951.973	3951.929
	3950.535	3951.959	3952.275	3954.092
	3951.970	3952.302	3953.517	3954.354
	3952.330	3952.941	3953.701	3954.982
5	3953.035	3953.516	3954.031	3958.906
	3953.531	3953.695	3954.147	3960.154
	3953.702	3954.024	3954.416	
	3954.033	3954.139	3955.099	
	3954.149	3954.399	3955.244	
10	3955.221	3955.184	3956.052	
	3956.833	3956.767	3956.704	
	3957.382	3956.916	3957.381	
	3957.520	3957.369	3957.521	
	3958.007	3957.510	3958.052	
15	3958.156	3958.125	3958.299	
	3958.386	3959.010	3959.015	
	3959.017	3959.113	3959.128	
	3959.139	3959.483	3959.469	
	3959.496	3959.673	3959.809	
20	3959.706	3960.200	3960.209	
	3959.871			
	3960.207			

	A	B	C	D
	3960.207	3960.200	3960.209	3962.582
	3960.770	3960.756	3960.760	3963.222
	3961.140	3961.135	3961.143	3963.791
	3961.629	3961.582	3962.244	3964.503
5	3962.010	3962.096	3963.270	3965.650
	3962.172	3963.252	3963.789	3965.897
	3963.265	3963.807	3964.229	3966.168
	3963.831	3964.215	3964.329	3966.403
	3964.227	3964.318	3964.590	3966.708
10	3964.325	3964.580	3964.706	3967.417
	3964.588	3964.743	3965.247	3967.965
	3964.788	3965.235	3965.689	3969.299
	3965.250	3965.680	3965.949	3970.153
	3965.688	3965.939	3966.046	
15	3965.952	3966.030	3966.219	
	3966.045	3966.207	3966.438	
	3966.220	3966.419	3966.762	
	3966.436	3966.749	3966.855	
	3966.761	3966.842	3967.232	
20	3966.854	3967.221	3967.513	
	3967.229	3967.536	3967.555	
	3967.552	3968.005	3968.016	
	3968.019	3968.170	3968.186	
	3968.180	3969.024	3969.035	
25	3969.105	3969.112	3969.335	
	3970.199	3970.231	3969.988	

	A	B	C	D
	3970.672	3970.659	3970.658	3970.592
	3970.923	3970.909	3970.923	3970.870
	3971.644	3971.637	3971.647	3971.597
	3972.083	3972.030	3971.895	3977.120
5	3972.625	3972.576	3972.752	3977.448
	3973.523	3972.640	3973.531	3978.679
	3973.884	3973.521	3973.794	3979.372
	3974.421	3973.813	3974.675	3979.544
	3974.741	3974.716	3975.210	3979.820
10	3974.963	3974.961	3975.504	3980.212
	3975.125	3975.109	3975.729	
	3975.504	3975.490	3976.600	
	3975.772	3975.761	3977.161	
	3975.998	3975.982	3977.506	
15	3976.244	3976.208	3978.794	
	3976.562	3976.536	3979.403	
	3977.160	3977.144	3979.699	
	3977.503	3977.493	3979.983	
	3978.804	3978.790	3980.173	
20	3979.397	3979.392		
	3979.596	3979.715		
	3979.732	3979.967		
	3979.979	3980.250		
	3980.178			

	A		B		C		D
	3980.178		3980.250		3980.173		3980.212
	3980.264		3980.803		3980.265		3980.688
	3980.825		3981.255		3980.802		3981.231
	3981.264		3981.497		3981.265		3982.926
5	3981.500	5	3982.033	5	3981.505	5	3983.715
	3982.054		3982.229		3981.997		3984.187
	3982.270		3982.490		3982.782		3984.423
	3982.508		3982.826		3982.934		3984.880
	3982.855		3983.744		3983.759		3985.934
10	3983.757	10	3984.988	10	3984.219	10	3986.400
	3985.011		3985.979		3984.446		3986.765
	3985.996		3986.208		3984.961		3987.591
	3986.220		3986.420		3985.029		3987.706
	3986.434		3986.770		3985.964		3988.262
15	3988.285	15	3987.722	15	3986.024	15	3988.715
	3988.748		3988.278		3986.222		3989.311
	3989.448		3988.740		3986.440		3990.223
	3989.559		3989.435		3986.783		
	3989.819		3989.806		3987.439		
20	3990.219	20	3990.208	20	3987.625		
					3987.738		
					3988.290		
					3988.420		
					3988.754		
				25	3989.428		
					3989.557		
					3989.803		

	A	B	C	D
	3990.219	3990.208	3990.262	3991.126
	3990.676	3990.640	3990.902	3992.510
	3991.171	3991.157	3991.169	3993.253
	3992.512	3992.505	3991.564	3995.426
5	3992.657	3992.637	3992.514	3995.914
	3993.286	3993.276	3992.679	3997.022
	3994.970	3993.809	3993.288	3997.786
	3995.966	3994.846	3993.825	3998.024
	3997.069	3994.980	3994.982	3998.468
10	3997.817	3995.952	3995.192	3999.693
	3998.059	3996.331	3995.966	4000.164
	3998.833	3997.056	3996.343	
	3999.731	3997.808	3997.066	
	4000.064	3998.050	3997.823	
15	4000.194	3998.831	3998.061	
		3999.719	3998.496	
		4000.185	3998.860	
			3999.734	
			4000.067	
20			4000.198	

	A	B	C	D
	4000.065	4000.185	4000.067	4000.164
	4000.194	4000.453	4000.198	4000.414
	4000.462	4000.709	4000.464	4000.683
	4000.725	4000.974	4000.726	4000.969
5	4001.273	5 4001.262	5 4000.863	5 4001.217
	4001.419	4001.401	4000.994	4002.034
	4002.762	4002.063	4001.289	4002.763
	4002.853	4002.757	4002.070	4002.913
	4002.959	4002.845	4002.572	4003.572
10	4003.129	10 4002.947	10 4002.776	10 4003.821
	4003.583	4003.111	4002.953	4003.968
	4003.851	4003.569	4003.114	4004.382
	4004.004	4003.839	4003.581	4004.661
	4004.411	4003.992	4003.853	4005.402
15	4004.700	15 4004.404	15 4004.009	15 4005.534
	4005.477	4004.687	4004.415	4006.604
	4007.578	4005.462	4004.698	4007.459
	4008.511	4006.885	4005.445	4009.054
	4010.235	4007.560	4005.517	4009.945
		20 4008.441	20 4005.912	
		4008.591	4006.622	
		4010.193	4006.894	
			4007.544	
			4007.625	
			25 4008.830	
			4010.193	

	4010.518		4010.504		4010.513		4010.488
	4010.751		4010.741		4010.826		4010.784
	4010.827		4010.814		4011.113		4011.060
	4011.117		4011.104		4011.333		4011.696
5	4011.328	5	4011.317	5	4011.729	5	4012.199
	4011.728		4011.721		4012.232		4012.530
	4011.815		4012.214		4012.635		4013.668
	4012.226		4012.645		4012.776		4014.415
	4012.626		4013.704		4013.714		4014.504
10	4013.707	10	4014.059	10	4014.071	10	4015.342
	4014.073		4014.435		4014.447		4015.431
	4014.444		4014.594		4014.607		4015.813
	4014.605		4015.364		4015.375		4016.701
	4015.377		4015.529		4015.538		4017.043
15	4015.543	15	4015.837	15	4015.852	15	4017.577
	4015.851		4016.740		4016.324		4017.974
	4016.739		4017.013		4016.747		4018.221
	4017.027		4017.487		4016.983		4018.424
	4017.488		4017.599		4017.046		4018.566
20	4017.605	20	4017.992	20	4017.492	20	4019.709
	4017.999		4018.228		4017.609		4020.219
	4018.234		4018.498		4018.002		
	4018.514		4019.441		4018.239		
	4019.435		4019.654		4018.508		
25	4019.676	25	4019.904	25	4019.368		
	4019.919		4020.243		4019.633		
	4020.112				4019.915		

	4021.627		4021.620		4021.098		4021.078
	4022.228		4022.217		4021.637		4021.600
	4022.903		4022.888		4022.229		4022.194
5	4025.346	5	4025.292	5	4022.693	5	4022.654
	4026.768		4025.375		4022.902		4022.871
	4027.036		4026.759		4025.441		4025.050
	4027.332		4027.028		4025.543		4025.603
	4027.943		4027.321		4026.771		4026.732
10	4028.168	10	4027.937	10	4027.039	10	4027.007
	4028.249		4028.156		4027.334		4027.301
	4028.572		4028.240		4027.948		4027.918
	4028.891		4028.564		4028.171		4028.133
	4029.517		4028.881		4028.250		4028.195
15	4029.766	15	4029.512	15	4028.575	15	4028.542
	4030.193		4029.738		4028.896		4028.862
			4030.163		4029.524		4029.494
					4029.735		4029.776

A	B	C	D
4160.974	4160.973	4160.989	4160.947
4161.761	4161.746	4161.759	4161.723
4163.090	4163.078	4163.093	4163.050
4163.557	4163.547	4163.559	4163.523
4166.014	4165.480	4165.084	4165.456
4167.781	4166.004	4165.496	4165.993
4168.830	4167.778	4166.017	4167.772
4169.057	4168.818	4166.314	4168.313
4169.588	4169.050	4167.785	4168.772
4169.729	4169.569	4168.352	4169.028
4169.868	4169.714	4168.833	4169.556
4170.183	4169.863	4169.059	4169.689
	4170.170	4169.505	4169.834
		4169.586	4170.241
		4169.729	
		4169.872	
		4170.178	

H	B	C	D
4153.333	4153.322	4151.764	4151.726
4153.747	4153.740	4152.390	4152.365
4154.581	4154.568	4152.757	4152.698
4155.025	4155.018	4153.325	4153.262
5 4155.321	5 4155.312	5 4153.751	5 4154.487
4156.091	4156.081	4154.566	4154.982
4157.668	4157.657	4155.025	4155.289
4157.758	4157.747	4155.330	4156.046
4159.170	4159.162	4156.092	4157.640
10 4159.341	10 4159.327	10 4157.677	10 4157.727
4160.125	4160.187	4157.758	4159.144
		4159.200	4159.321
		4159.337	4160.162
		4160.058	

4140.164	4140.157	4140.164	4140.121
4141.383	4140.839	4140.848	4140.813
4141.922	4141.368	4141.014	4140.989
4142.919	4141.911	4141.171	4141.349
4144.488	4142.907	4141.383	4141.841
4145.246	4144.479	4141.898	4142.495
4145.417	4145.238	4142.523	4142.881
4146.334	4145.405	4142.919	4144.456
4147.977	4146.325	4144.490	4145.375
4148.870	4147.971	4145.246	4146.295
4149.503	4148.861	4145.417	4146.869
4149.731	4149.494	4146.327	4147.956
4150.222	4149.721	4146.904	4148.836
	4150.209	4147.986	4149.462
		4148.872	4149.689
		4149.504	4150.157
		4149.731	
		4150.166	

A	B	C	D
4130.313	4130.305	4130.319	4130.283
4131.054	4131.047	4131.057	4131.021
4131.720	4131.712	4131.723	4131.687
4132.202	4132.194	4131.866	4131.830
4133.059	4133.047	4132.204	4132.172
4133.672	4133.655	4133.035	4132.927
4134.677	4134.660	4133.672	4133.062
4138.806	4138.055	4134.634	4133.730
4139.382	4138.785	4137.714	4134.604
4140.164	4139.374	4138.075	4134.743
	4140.157	4138.824	4138.052
		4139.371	4138.768
		4140.164	4139.310
			4139.396
			4140.121

A	B	C	D
4121.361	4120.246	4120.266	4120.259
4122.347	4121.350	4121.353	4121.285
4123.497	4122.349	4122.351	4122.318
4124.124	4123.489	4122.702	4122.656
5 4125.184	5 4124.111	5 4122.986	5 4122.966
4125.430	4125.176	4123.501	4123.464
4127.160	4125.420	4124.124	4123.849
4127.379	4125.712	4124.525	4124.088
4127.751	4127.141	4125.181	4125.118
10 4128.470	10 4127.368	10 4125.431	10 4125.391
4128.714	4127.742	4125.716	4126.157
4129.960	4128.463	4127.158	4127.120
4130.177	4128.706	4127.385	4127.345
	4129.948	4127.760	4127.722
	15 4130.173	15 4128.475	15 4128.441
		4128.712	4128.664
		4129.960	4129.919
		4130.079	4130.152

A	B	C	D
4110.503	4110.497	4110.506	4110.468
4111.803	4111.795	4111.805	4111.778
4112.848	4112.829	4112.842	4112.803
4113.003	4112.981	4113.001	4112.967
5 4113.622	5 4113.609	5 4113.618	5 4113.582
4113.736	4113.733	4113.746	4113.708
4114.547	4114.364	4114.208	4114.179
4114.811	4114.542	4114.374	4114.514
4115.193	4114.799	4114.552	4114.772
10 4115.500	10 4115.188	10 4114.813	10 4115.161
4116.186	4115.492	4115.199	4115.467
4116.569	4116.172	4115.356	4116.148
4116.961	4116.561	4115.502	4116.534
4117.376	4116.961	4116.186	4116.935
15 4118.153	15 4117.369	15 4116.572	15 4117.365
4119.378	4118.142	4116.975	4117.595
4120.250	4119.366	4117.378	4118.119
	4120.247	4117.616	4118.468
		4118.153	4119.340
		20 4118.513	20 4120.210
		4119.385	
		4120.029	

A	B	C	D
4100.350	4100.347	4100.353	4100.318
4101.266	4101.261	4101.270	4101.242
4101.801	4101.796	4101.806	4101.766
4104.094	4102.251	4102.260	4102.235
5 4104.748	5 4104.083	5 4103.230	5 4103.962
4106.008	4104.739	4104.063	4104.794
4106.371	4106.014	4104.703	4105.814
4107.038	4106.359	4104.779	4106.976
4107.542	4107.030	4105.936	4107.494
10 4108.086	10 4107.521	10 4106.370	10 4107.937
4109.549	4107.800	4107.035	4108.040
4110.178	4107.965	4107.537	4109.498
	4108.070	4107.818	4109.896
	4109.541	4107.973	4110.243
	15 4110.148	15 4108.086	
		4109.535	
		4109.931	
		4110.110	

A	B	C	D
4090.006	4090.858	4090.007	4090.835
4090.863	4091.810	4090.554	4091.043
4091.818	4093.049	4090.869	4091.784
4093.055	4093.518	4091.080	4093.021
5 4093.265	5 4093.873	5 4091.819	5 4093.458
4093.529	4095.375	4093.058	4093.939
4093.885	4097.127	4093.255	4095.348
4095.380	4098.205	4093.526	4095.451
4098.210	4100.173	4093.886	4095.781
10 4100.110		10 4093.969	10 4097.098
		4095.384	4098.177
		4095.487	4100.106
		4095.828	
		4097.131	
		15 4098.034	
		4098.212	
		4100.104	

	A	B	C	D
	4080.202	4080.193	4080.202	4080.159
	4081.240	4081.220	4080.527	4081.147
	4081.536	4081.524	4081.183	4081.488
	4084.847	4084.467	4081.246	4083.668
5	4085.772	4084.837	4081.536	4084.123
	4086.165	4085.770	4083.699	4084.478
	4086.741	4086.155	4084.162	4084.792
	4088.097	4086.731	4084.511	4085.438
	4088.360	4087.291	4084.842	4085.761
10	4088.648	4088.091	4085.784	4086.101
	4089.217	4088.347	4086.128	4086.709
	4090.003	4088.635	4086.743	4087.267
	4090.215	4089.205	4087.299	4087.969
		4089.989	4087.990	4088.283
15		4090.211	4088.232	4088.599
			4088.646	4089.178
			4089.217	4089.966
			4090.004	

	A	B	C	D
	4070.164	4070.156	4070.168	4070.132
	4070.582	4070.574	4070.586	4070.552
	4073.491	4071.099	4070.884	4070.833
	4073.844	4073.483	4071.152	4071.116
5	4075.136	4073.830	4071.354	4071.321
	4075.307	4075.130	4073.494	4073.470
	4075.627	4075.296	4073.810	4073.767
	4076.248	4075.613	4075.142	4073.903
	4077.381	4076.241	4075.301	4075.110
10	4078.435	4077.368	4075.624	4075.253
	4079.020	4078.423	4076.251	4075.588
	4079.369	4079.015	4076.845	4076.214
	4079.763	4079.347	4077.381	4076.804
	4080.202	4080.193	4078.433	4077.344
15			4079.026	4078.390
			4079.313	4079.283
			4079.492	4079.576
			4080.202	4080.159

	A	B	C	D
	4060.365	4060.358	4060.393	4060.659
	4060.599	4060.581	4060.543	4061.230
	4061.269	4061.264	4061.269	4061.592
	4061.623	4061.611	4061.624	4062.387
5	4062.420	5 4062.412	5 4061.949	5 4062.850
	4062.876	4062.875	4062.423	4063.416
	4065.481	4065.476	4062.884	4063.590
	4065.695	4065.687	4063.459	4063.718
	4066.118	4066.111	4063.760	4064.109
10	4066.719	10 4066.709	10 4064.105	10 4064.671
	4067.364	4067.355	4065.484	4065.450
	4069.191	4068.043	4065.694	4065.655
	4070.164	4068.265	4065.861	4065.830
	4070.260	4069.177	4066.120	4066.087
		15 4069.363	15 4066.721	15 4066.690
		4070.156	4067.372	4067.340
			4068.047	4068.015
			4068.286	4068.246
			4069.188	4069.151
			20 4069.375	20 4069.339
			4069.944	4070.132
			4070.168	

A	B	C	D
4050.359	4050.352	4050.361	4050.326
4050.519	4050.512	4050.524	4050.808
4050.844	4050.836	4050.846	4051.532
4052.170	4051.618	4051.041	4052.078
4053.641	4052.155	4051.564	4052.192
4054.489	4053.632	4052.193	4053.612
4054.665	4054.484	4053.644	4053.904
4055.009	4054.659	4053.937	4054.460
4056.592	4055.000	4054.494	4054.633
4057.746	4055.350	4054.667	4054.974
4058.949	4056.581	4055.011	4055.332
4059.495	4057.737	4055.137	4056.564
4060.063	4058.943	4055.362	4057.697
	4059.487	4056.593	4058.921
	4059.714	4057.740	4059.462
		4058.952	4060.198
		4059.036	
		4059.497	

	A	B	C	D
	4040.289	4040.280	4040.292	4040.266
	4040.361	4040.350	4040.363	4040.470
	4040.504	4040.493	4040.503	4040.627
	4040.656	4040.650	4040.659	4040.969
5	4041.917	5 4040.978	5 4040.990	5 4041.316
	4042.296	4041.910	4041.347	4041.887
	4043.004	4042.288	4041.920	4042.268
	4043.335	4042.992	4042.300	4042.967
	4043.764	4043.325	4043.004	4043.298
10	4044.824	10 4043.757	10 4043.334	10 4043.877
	4045.457	4044.786	4043.650	4045.090
	4046.990	4044.903	4043.872	4046.413
	4047.132	4045.446	4044.723	4046.755
	4047.938	4046.772	4045.083	4046.971
15	4048.171	15 4046.979	15 4046.445	15 4047.098
	4048.329	4047.115	4046.791	4047.905
	4050.199	4047.925	4046.990	4048.138
		4048.159	4047.130	4048.301
		4048.322	4047.940	4048.533
		20 4048.818	20 4048.174	20 4048.790
		4049.377	4048.335	4049.368
		4050.053	4048.592	4049.914
			4048.838	
			4049.400	
			25 4050.073	

	A	B	C	D
	4030.561	4030.350	4030.356	4030.335
	4031.391	4030.551	4030.563	4030.531
	4032.285	4031.372	4031.357	4031.292
	4032.429	4032.281	4031.458	4032.631
5	4032.626	4032.615	4032.288	4033.219
	4033.251	4033.241	4032.632	4033.493
	4033.511	4033.501	4033.252	4033.657
	4033.692	4033.680	4033.515	4034.484
	4034.531	4034.516	4033.692	4035.314
10	4035.347	4035.338	4034.522	4035.942
	4035.581	4035.569	4035.349	4036.342
	4035.970	4035.959	4035.582	4036.653
	4036.421	4036.398	4035.705	4037.498
	4036.688	4036.679	4035.975	4037.898
15	4037.926	4037.919	4036.370	4038.350
	4038.520	4038.513	4036.692	4038.486
	4039.226	4039.216	4037.517	4038.935
	4039.377	4039.365	4037.934	4039.204
	4039.991	4039.981	4038.380	4039.340
20	4040.144		4038.522	4039.970
			4038.961	
			4039.227	
			4039.379	
			4039.992	

A	B	C	D
4171.280	4171.271	4171.282	4171.231
4171.673	4171.656	4171.676	4171.644
4172.030	4172.020	4172.032	4171.999
4172.330	4172.318	4172.315	4172.252
5 4173.900	5 4173.888	5 4173.633	5 4173.871
4176.176	4174.591	4173.906	4176.155
4176.375	4176.166	4174.603	4176.337
4178.665	4176.366	4175.117	4178.141
4179.359	4178.658	4176.179	4178.636
10 4179.787	10 4179.346	10 4176.377	10 4179.333
4180.202	4179.778	4178.667	4179.752
	4180.100	4179.360	4180.247
		4179.792	
		4180.215	

A	B	C	D
4181.147	4181.137	4180.540	4181.354
4181.284	4181.452	4180.700	4181.509
4181.467	4182.542	4181.154	4182.518
4182.551	4185.212	4181.451	4183.772
4185.228	4186.162	4182.554	4185.188
4186.168	4187.323	4185.227	4186.137
4187.334	4189.213	4186.170	4187.288
4187.465	4190.174	4187.313	4188.571
4189.219		4188.600	4189.197
4190.051		4189.222	4189.622
4190.184		4190.047	4189.821
		4190.186	4190.155

A	B	C	D
4190.051	4190.174	4190.047	4190.155
4190.184	4190.713	4190.186	4190.697
4190.720	4191.137	4190.729	4191.125
4191.147	4192.096	4191.151	4192.049
4192.132	4193.180	4192.047	4193.157
4193.186	4193.852	4192.118	4193.829
4193.864	4194.546	4193.198	4194.480
4194.553	4195.712	4193.865	4194.546
4195.722	4195.914	4194.532	4195.670
4195.930	4197.085	4195.721	4197.065
4197.097	4197.253	4195.927	4197.231
4197.262	4197.781	4197.099	4197.759
4197.792	4200.207	4197.266	4200.175
4200.216		4197.793	
		4200.218	

A	B	C	D
4200.216	4200.207	4200.218	4200.174
4200.922	4200.907	4200.924	4200.890
4201.372	4201.355	4201.370	4201.329
4202.250	4202.235	4202.250	4202.210
5 4202.406	5 4202.398	5 4202.408	5 4202.473
4202.517	4202.521	4202.518	4202.730
4202.766	4202.762	4202.750	4203.068
4203.677	4203.673	4203.680	4203.640
4204.462	4204.455	4204.467	4204.439
10 4204.832	10 4204.817	10 4204.802	10 4204.776
4205.147	4205.226	4205.146	4206.318
4205.234	4206.340	4205.235	4207.591
4206.351	4207.616	4206.226	4208.030
4207.626	4208.049	4206.353	4208.646
15 4208.063	15 4210.095	15 4207.628	15 4209.611
4209.934		4208.062	4210.013
4210.122		4209.634	4210.212
		4210.194	

A	B	C	D
4212.292	4212.278	4212.283	4210.843
4212.465	4212.466	4212.472	4212.246
4214.105	4214.096	4214.108	4212.441
4216.447	4215.919	4215.531	4214.066
5 4216.644	5 4216.437	5 4215.941	5 4215.513
4216.926	4216.563	4216.450	4215.897
4217.182	4216.915	4216.636	4216.416
4217.437	4217.172	4216.919	4216.863
4217.923	4217.420	4217.185	4217.146
10 4218.246	10 4217.917	10 4217.434	10 4217.398
4218.982	4218.234	4217.929	4217.896
4219.877	4218.972	4218.247	4218.211
4220.258	4219.864	4218.985	4218.936
	4220.246	4219.874	4219.843
		15 4220.259	15 4220.221

A	B	C	D
4220.258	4220.243	4220.259	4220.221
4221.281	4221.271	4221.283	4221.236
4222.121	4221.686	4221.710	4221.670
4222.939	4222.112	4222.123	4222.088
5 4224.336	5 4222.936	5 4222.943	5 4222.904
4229.040	4224.324	4224.333	4224.287
4229.552	4228.628	4228.645	4226.155
4229.806	4229.024	4229.039	4226.872
4230.119	4229.538	4229.554	4228.238
	10 4229.796	10 4229.806	10 4228.603
	4230.110	4230.123	4229.009
			4229.505
			4229.777
			4230.089

A	B	C	D
4230.119	4230.110	4230.123	4230.089
4230.305	4230.293	4230.306	4230.268
4231.245	4231.237	4230.704	4230.683
4233.020	4231.514	4231.249	4231.212
5 4234.084	5 4232.381	5 4231.537	5 4231.486
4237.006	4233.006	4232.412	4232.361
4239.910	4234.080	4232.875	4232.848
4240.012	4234.559	4233.021	4232.990
4240.115	4235.625	4234.094	4234.058
	10 4236.611	10 4234.583	10 4234.555
	4236.997	4235.635	4235.594
	4239.890	4236.289	4236.265
	4240.111	4236.624	4236.590
		4236.775	4236.752
		15 4237.012	15 4236.987
		4239.255	4239.849
		4239.901	
		4240.190	

A	B	C	D
4240.010	4241.527	4240.496	4240.827
4241.750	4241.729	4240.861	4241.509
4242.099	4242.102	4241.538	4241.708
4242.875	4242.866	4241.747	4242.056
5 4250.171	5 4244.199	5 4242.103	5 4242.830
	4247.944	4242.875	4244.153
	4249.118	4244.205	4246.669
	4250.067	4246.561	4246.971
	4250.169	4247.005	4247.288
		10 4247.952	10 4247.917
		4249.140	4249.084
		4249.499	4249.473
		4250.079	4249.772
			4250.043

A	B	C	D
4250.330	4250.067	4250.079	4250.043
4250.612	4250.314	4250.329	4250.299
4250.885	4250.601	4250.612	4250.576
4251.560	4250.871	4250.879	4250.831
5 4252.318	5 4251.553	5 4251.566	5 4251.527
4252.591	4252.320	4252.318	4252.258
4253.306	4252.577	4252.591	4253.273
4253.873	4253.298	4253.310	4253.583
4253.987	4253.585	4253.609	4253.953
10 4254.100	10 4253.974	10 4253.879	10 4254.061
4255.738	4254.087	4253.989	4255.687
4259.556	4255.727	4254.102	4257.668
4260.081	4259.542	4255.737	4259.517
	4260.106	4257.703	4260.083
		15 4258.989	
		4259.558	
		4260.112	

A	B	C	D
4260.403	4260.391	4260.405	4260.364
4261.747	4261.733	4260.768	4261.700
4263.250	4263.244	4261.740	4262.277
4264.308	4264.299	4262.313	4263.220
5 4264.920	5 4264.899	5 4263.254	5 4264.260
4269.756	4269.747	4264.310	4264.882
4270.256	4270.249	4264.518	4265.476
		4264.755	4266.920
		4264.923	4269.706
		10 4266.945	10 4270.030
		4269.757	
		4270.248	

A	B	C	D
4271.046	4270.358	4270.373	4270.322
4271.392	4271.032	4271.027	4270.993
4272.824	4271.382	4271.395	4271.352
4273.673	4272.381	4272.401	4272.352
5 4275.550	5 4272.813	5 4272.825	5 4272.788
4280.237	4273.666	4273.678	4273.642
	4275.540	4274.283	4275.514
	4277.433	4275.553	4276.239
	4280.187	4277.431	4277.382
		10 4280.234	10 4278.859
			4279.344
			4280.234

A	B	C	D
4282.422	4282.408	4280.973	4280.939
4288.795	4284.259	4282.023	4281.412
4289.602	4286.864	4282.421	4282.381
4290.167	4288.799	4286.285	4285.592
	5 4289.589	5 4286.460	5 4285.844
	4290.211	4286.869	4286.244
		4287.888	4286.433
		4288.799	4286.844
		4289.604	4287.654
		10 4290.214	10 4287.856
			4288.762
			4289.565
			4290.196

4290.736	4290.727	4290.741	4290.700
4294.641	4294.628	4290.869	4290.830
4295.811	4295.796	4292.325	4294.603
4300.157	4300.240	4294.642	4295.558
		5 4295.590	5 4295.771
		4295.810	4296.957
		4300.172	4300.151

H	B	C	D
4302.869	4302.862	4302.873	4302.836
4303.210	4303.198	4303.208	4303.172
4304.262	4304.253	4304.266	4304.230
4304.455	4304.452	4304.464	4304.423
4304.595	4304.582	4304.594	4304.555
4305.403	4305.393	4304.915	4304.864
4306.710	4306.697	4305.404	4305.367
4309.534	4309.524	4305.577	4305.536
4310.188	4310.040	4306.710	4306.665
		4309.540	4309.505
		4310.220	4310.192

AD-A151 757 AN ATLAS OF PURE WATER VAPOR SPECTRA FROM 500 TO 5000/CM VOLUME 2..(U) OHIO STATE UNIV COLUMBUS ELECTROSCIENCE LAB R K LONG ET AL. SEP 84 5/5

UNCLASSIFIED ESL-713774-3-VOL-2 ARO-17603.4-GS F/G 7/4 NL

END

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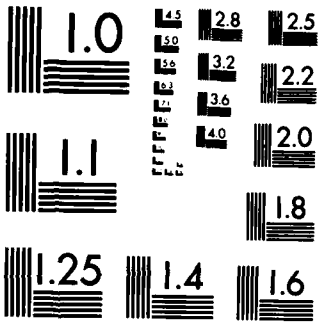

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

A	B	C	D
4313.602	4313.592	4313.151	4313.119
4315.615	4315.601	4313.605	4313.566
4316.720	4316.708	4315.618	4314.640
4319.680	4319.663	4316.724	4315.579
5 4320.232	5 4320.213	5 4319.682	5 4316.688
		4320.236	4319.644
			4320.204

A	B	C	D
4325.917	4325.898	4320.236	4320.204
4328.729	4328.722	4325.432	4325.385
4329.604	4329.595	4325.916	4325.881
4330.238	4330.250	4328.730	4328.693
		5 4329.608	5 4329.571
		4330.196	4330.178

A	B	C	D
4340.245	4335.385	4335.412	4331.895
	4337.159	4337.173	4335.380
	4339.953	4339.982	4337.133
	4340.144	4340.170	4339.947
			5 4340.209

A	B	C	D
4342.949	4342.939	4342.946	4342.913
4344.993	4344.976	4344.988	4344.954
4350.202	4349.323	4346.411	4345.928
	4350.233	4349.333	4346.369
		5 4350.144	5 4349.299
			4350.145

A	B	C	D
4353.695	4353.665	4351.162	4351.128
4356.214	4356.202	4351.327	4353.666
4357.407	4357.392	4353.700	4354.048
4358.011	4358.008	4354.085	4354.425
5 4360.235	5 4360.204	5 4354.457	5 4356.177
		4356.218	4356.890
		4356.922	4357.373
		4357.409	4357.986
		4358.023	4359.396
		10 4360.196	10 4360.135

A	B	C	D
4363.011	4362.997	4363.013	4362.973
4364.274	4364.259	4364.275	4364.239
4370.066	4370.183	4366.153	4366.114
		4370.243	4368.070
			5 4369.886
			4370.223

A	B	C	D
4379.593	4379.582	4371.722	4371.690
4380.127	4380.226	4372.664	4372.957
		4379.602	4375.033
		4380.218	4379.565
			5 4380.196

A	B	C	D
4390.193	4390.203	4385.604 4386.550 4390.245	4385.559 4390.230

A	B	C	D
4400.232	4400.235	4400.162	4400.164

A	B	C	D
4407.063	4407.049	4401.185	4401.138
4407.617	4407.606	4402.776	4401.893
4408.772	4408.747	4405.983	4407.024
4410.203	4410.203	4407.064	4407.582
		5 4407.621	5 4408.721
		4408.763	4409.710
		4409.741	4410.228
		4410.234	

A	B	C	D
4414.826	4414.784	4411.761	4411.709
4420.231	4420.229	4414.813	4414.753
		4415.085	4415.058
		4420.224	4420.229

A	B	C	D
4430.181	4430.214	4421.508	4421.465
		4428.477	4428.441
		4428.683	4430.233
		4430.104	

A	B	C	D
4565.110	4565.097	4565.109	4565.073
4569.873	4569.861	4569.875	4569.833
4570.209	4570.060	4570.206	4570.148

A	B	C	D
4552.294	4550.914	4550.924	4550.889
4552.516	4552.283	4552.297	4552.260
4553.146	4552.503	4552.517	4552.464
4555.863	4553.128	4553.147	4553.109
5 4556.550	5 4555.857	5 4555.866	5 4554.229
4560.197	4556.536	4556.550	4555.827
	4560.195	4560.176	4556.508
			4560.249

A	B	C	D
4543.015	4543.000	4543.016	4542.972
4545.467	4545.459	4545.470	4545.425
4546.856	4546.849	4546.861	4546.824
4548.747	4548.738	4548.750	4548.708
5 4549.023	5 4549.014	5 4549.025	5 4548.981
4550.237	4550.164	4550.222	4550.200

A	B	C	D
4530.451	4530.447	4530.459	4530.419
4531.507	4531.491	4531.506	4531.462
4535.189	4535.171	4535.190	4532.936
4535.349	4535.340	4535.352	4535.154
5 4537.119	5 4537.110	5 4537.122	5 4535.310
4540.194	4540.173	4540.227	4537.080
			4540.041

A	B	C	D
4524.092	4524.079	4524.095	4524.054
4529.832	4529.822	4526.417	4526.397
4530.084	4530.190	4527.536	4527.502
		4529.738	4529.796
		5 4529.831	5 4530.185
		4530.238	

A	B	C	D
4512.572	4512.664	4512.584	4512.641
4512.677	4514.790	4512.678	4514.763
4514.794	4515.034	4514.801	4515.004
4515.046	4516.788	4515.052	4516.761
5 4520.188	5 4520.148	5 4516.799	5 4520.214
		4520.229	

A	B	C	D
4510.117	4504.387	4504.392	4504.364
	4504.943	4504.965	4504.919
	4507.892	4506.222	4506.185
	4510.146	4507.916	4507.882
		5 4510.121	5 4510.258

A	B	C	D
4492.789	4492.778	4490.657	4490.617
4493.951	4493.939	4492.792	4492.756
4499.092	4498.430	4493.955	4493.913
4500.243	4499.067	4496.441	4496.409
	5 4500.126	5 4498.456	5 4498.420
		4499.087	4499.046
		4500.139	4500.154

A	B	C	D
4490.197	4490.234	4488.580	4481.885
		4490.210	4483.243
			4487.129
			4488.552
			5 4490.241

A	B	C	D
4472.033	4472.024	4472.036	4471.998
4480.232	4472.673	4472.682	4472.639
	4480.139	4480.239	4477.373
			4479.020
			5 4479.220
			4480.229

200

A	B	C	D
4470.242	4470.221	4470.191	4465.470 4466.751 4470.176

A	B	C	D
4450.924	4450.909	4450.568	4450.518
4457.009	4457.008	4450.929	4450.884
4460.223	4460.104	4455.621	4456.985
		4457.024	4457.207
		5 4457.242	5 4458.737
		4458.771	4460.122
		4460.148	

A	B	C	D
4450.128	4450.138	4448.225 4449.351 4450.146	4448.296 4450.214

A	B	C	D
4440.179	4440.265	4434.099	4433.695
		4435.092	4435.060
		4440.133	4440.247

A	B	C	D
4570.892	4570.888	4570.893	4570.853
4570.989	4570.979	4570.991	4572.201
4572.244	4572.230	4572.247	4575.690
4575.723	4575.715	4575.729	4576.727
5 4576.774	5 4576.765	5 4576.776	5 4577.180
4577.218	4577.203	4577.224	4577.299
4577.342	4577.326	4577.341	4580.024
4580.065	4580.057	4580.066	4580.259

A	B	C	D
4580.065	4580.057	4580.066	4580.025
4581.304	4581.286	4581.304	4581.258
4588.637	4588.176	4585.222	4588.139
4590.245	4588.624	4588.190	4588.590
	5 4590.237	5 4588.639	5 4590.211
		4590.224	

A	B	C	D
4594.917	4594.907	4594.918	4594.878
4595.274	4595.265	4595.276	4595.236
4596.814	4596.809	4596.821	4596.783
4598.704	4598.691	4598.705	4598.659
5 4600.107	5 4600.097	5 4600.108	5 4600.064
4600.240	4600.212		

A	B	C	D
4600.107	4600.097	4600.108	4600.064
4609.437	4601.751	4601.760	4601.722
4610.164	4609.431	4609.436	4609.402
	4610.175	4610.191	4610.100

A	B	C	D
4611.078	4611.066	4611.081	4611.037
4620.198	4616.232	4614.458	4614.424
	4620.198	4615.667	4615.638
		4616.243	4616.197
		5 4620.198	5 4620.143

A	B	C	D
4621.927	4621.915	4621.931	4621.888
4622.254	4622.243	4622.255	4622.212
4624.112	4624.101	4624.118	4624.080
4629.653	4629.633	4627.280	4627.235
5 4630.228	5 4630.200	5 4627.486	5 4629.610
		4629.652	4630.225
		4630.133	

242

A	B	C	D
4631.541	4631.530	4631.544	4631.505
4633.666	4633.652	4633.666	4632.974
4640.247	4638.853	4637.294	4633.625
	4640.140	4638.873	4638.798
		5 4640.242	5 4640.230

A	B	C	D
4641.034	4641.006	4641.037	4640.996
4642.024	4642.007	4642.026	4641.986
4643.518	4643.508	4643.524	4643.486
4644.753	4644.742	4644.757	4644.718
5 4645.870	5 4647.271	5 4645.884	5 4645.852
4647.280	4647.363	4647.284	4647.246
4647.375	4648.190	4647.375	4647.326
4648.203	4650.236	4648.207	4648.168
4650.207		4649.869	4649.749
		10 4650.057	10 4650.242

A	B	C	D
4651.355	4651.348	4651.360	4651.324
4655.207	4655.207	4655.214	4655.177
4660.241	4660.252	4660.097	4660.078

A	B	C	D
4670.223	4670.249	4662.843 4670.185	4662.789 4670.155

A	B	C	D
4680.224	4672.973	4673.677	4673.639
	4680.161	4674.067	4674.046
		4676.217	4676.178
		4680.152	4680.018

A	B	C	D
4681.931	4681.393	4681.423	4681.351
4690.237	4681.909	4681.932	4681.896
	4690.180	4688.584	4690.144
		4690.076	

A	B	C	D
4699.743	4699.732	4693.537	4693.518
4700.061	4700.048	4699.743	4699.695
		4700.064	4700.198

A	B	C	D
4706.426	4706.413	4700.063	4706.392
4707.098	4707.085	4706.430	4707.060
4710.223	4710.177	4707.099	4710.178
		4710.202	

A	B	C	D
4840.046	4840.033	4840.049	4840.008
4845.800	4845.782	4843.442	4843.436
4847.479	4847.471	4845.803	4845.753
4848.022	4848.005	4847.484	4847.440
5 4848.501	5 4848.488	5 4848.025	5 4847.976
4850.246	4849.041	4848.505	4848.468
	4850.249	4848.934	4848.994
		4849.039	4850.078
		4850.148	

A	B	C	D
4830.667	4830.638	4830.660	4830.610
4830.959	4830.942	4830.959	4830.918
4831.681	4831.667	4831.691	4831.647
4833.502	4833.494	4833.377	4833.468
4834.472	4834.458	4833.500	4834.439
4835.395	4835.376	4834.473	4835.354
4840.046	4840.033	4835.394	4840.007
4840.225		4837.293	
		4839.834	
		4840.049	

A	B	C	D
4823.443	4823.437	4823.450	4823.409
4826.165	4826.146	4826.163	4826.120
4827.053	4827.027	4827.056	4827.024
4829.205	4829.194	4829.210	4829.171
5 4830.158	5 4830.219	5 4830.113	5 4830.188

A	B	C	D
4811.561	4811.544	4811.561	4811.508
4812.922	4812.907	4812.558	4812.512
4814.322	4814.309	4812.926	4812.885
4815.353	4815.338	4814.325	4814.281
5 4819.071	5 4819.057	5 4815.361	5 4815.310
4820.180	4820.247	4819.074	4815.873
		4820.253	4819.038
			4820.219

A	B	C	D
4800.990	4800.975	4800.991	4800.946
4803.487	4803.476	4802.708	4802.678
4805.385	4803.952	4803.492	4803.448
4810.193	4810.176	4803.979	4803.942
		5 4805.385	5 4805.350
		4810.123	4810.103

A	B	C	D
4793.369	4793.361	4793.371	4793.316
4796.550	4796.534	4794.401	4795.954
4800.247	4800.225	4795.978	4796.500
		4796.552	4800.207
		5 4800.236	

A	B	C	D
4784.575	4784.560	4784.581	4784.544
4787.870	4787.855	4787.876	4787.831
4790.174	4790.167	4790.146	4790.232

A	B	C	D
4775.797	4775.780	4774.896	4775.760
4780.120	4778.724	4775.798	4776.572
	4780.132	4776.592	4778.696
		4778.749	4780.130
		5 4780.131	

A	B	C	D
4761.035	4761.025	4761.036	4760.985
4764.566	4761.572	4761.597	4761.534
4764.683	4764.557	4764.570	4764.527
4765.088	4764.670	4764.684	4764.642
5 4765.365	5 4765.070	5 4765.089	5 4765.051
4770.224	4765.348	4765.368	4765.326
	4768.386	4768.408	4768.349
	4770.229	4770.168	4770.199

A	B	C	D
4750.666	4750.644	4750.667	4750.623
4757.899	4757.886	4757.901	4757.856
4758.207	4758.195	4758.205	4758.154
4760.133	4760.130	4760.157	4760.145

A	B	C	D
4747.050	4747.027	4747.045	4747.001
4750.221	4750.215	4750.175	4750.213

A	B	C	D
4733.646	4733.632	4733.040	4733.005
4735.219	4735.207	4733.646	4733.597
4739.622	4739.617	4735.221	4735.180
4740.243	4740.252	4739.632	4739.588
		5 4740.123	5 4740.242

A	B	C	D
4720.147	4720.138	4720.146	4720.102
4725.408	4725.398	4725.412	4725.364
4730.214	4730.180	4726.671	4726.634
		4727.766	4727.485
		5 4730.255	5 4727.720
			4730.192

A	B	C	D
4716.130	4713.925	4713.934	4713.886
4716.772	4716.120	4716.131	4716.091
4717.462	4716.760	4716.773	4716.728
4720.147	4717.454	4717.466	4717.431
	5 4720.138	5 4720.146	5 4720.102

A	B	C	D
4851.767	4851.752	4851.770	4851.724
4853.293	4853.276	4853.295	4853.245
4856.759	4856.881	4856.763	4854.478
4859.054	4859.037	4856.888	4856.716
5 4859.991	5 4859.974	5 4859.056	5 4856.836
4860.250	4860.210	4859.994	4859.016
		4860.236	4859.952

A	B	C	D
4860.637	4862.259	4862.278	4862.229
4862.275	4866.227	4862.695	4863.457
4866.244	4867.969	4866.247	4863.925
4867.977	4869.548	4867.871	4866.190
5 4869.565	5 4870.081	5 4867.979	5 4867.827
4870.088		4869.565	4867.927
		4870.091	4869.521
			4870.042
			4870.199

A	B	C	D
4870.088	4870.082	4870.091	4870.043
4873.087	4873.065	4871.984	4871.941
4874.269	4874.256	4873.093	4873.053
4876.774	4876.760	4874.271	4874.232
5 4877.390	5 4877.376	5 4876.538	5 4876.725
4880.198	4877.456	4876.778	4877.351
	4880.201	4877.013	4879.436
		4877.393	4880.184
		4879.474	
		10 4880.257	

340

A	B	C	D
4890.075	4884.304	4881.109	4881.339
	4888.946	4881.383	4885.007
	4890.072	4888.199	4887.378
		4888.971	4888.161
		5 4890.077	5 4888.923
			4890.254

A	B	C	D
4890.311	4890.295	4890.315	4890.254
4891.895	4891.408	4891.426	4891.384
4892.124	4891.879	4891.895	4891.845
4893.136	4892.110	4892.119	4892.066
5 4894.351	5 4893.120	5 4893.136	5 4893.089
4894.762	4894.359	4894.365	4894.292
4900.252	4894.744	4894.764	4894.716
	4898.832	4894.874	4898.810
	4900.174	4898.858	4899.796
		10 4899.844	10 4900.143
		4900.181	

A	B	C	D
4900.714	4900.701	4900.182	4900.143
4901.327	4901.313	4900.716	4900.661
4901.791	4901.780	4901.330	4901.274
4904.499	4904.488	4901.793	4901.738
5 4905.085	5 4905.835	5 4902.389	5 4902.345
4905.850	4910.141	4904.510	4904.448
4906.541		4905.851	4905.806
4910.216		4906.542	4906.499
		4910.224	4910.129

A	B	C	D
4916.011	4916.021	4914.682	4913.264
4916.940	4916.935	4915.009	4914.927
4917.902	4917.889	4915.984	4916.892
4918.123	4918.113	4916.939	4917.858
5 4918.354	5 4918.343	5 4917.902	5 4918.075
4920.138	4920.231	4918.123	4918.299
		4918.354	4920.166
		4920.169	

A	B	C	D
4920.633	4920.620	4920.639	4920.585
4922.496	4921.941	4921.447	4921.361
4923.300	4923.904	4921.990	4922.425
4923.922	4924.705	4923.922	4923.869
5 4924.718	5 4925.700	5 4924.719	5 4924.677
4925.711	4927.100	4925.716	4925.664
4927.118	4928.702	4927.122	4925.952
4928.591	4929.107	4928.597	4927.071
4928.717	4930.119	4928.718	4928.548
10 4929.116		10 4929.119	10 4928.670
4930.237		4930.155	4929.064
			4930.221

A	B	C	D
4930.540	4930.526	4930.540	4930.494
4931.599	4931.587	4931.607	4931.550
4932.490	4932.459	4932.973	4933.475
4938.189	4936.951	4936.934	4938.151
5 4939.192	5 4938.178	5 4937.434	5 4939.161
4940.137	4939.189	4938.195	4940.125
	4940.176	4939.197	
		4940.175	

A	B	C	D
4940.328	4940.315	4940.331	4940.291
4942.449	4941.697	4941.714	4941.678
4944.828	4942.431	4942.445	4942.396
4948.150	4948.133	4945.920	4948.099
5 4949.590	5 4949.574	5 4948.148	5 4949.544
4950.093	4950.082	4949.593	4949.998
		4950.208	

	A	B	C	D
	4950.481	4950.465	4950.324	4950.282
	4952.433	4951.815	4950.481	4950.440
	4953.907	4952.417	4951.233	4951.224
	4955.020	4953.890	4951.825	4951.770
5	4955.145	5 4955.000	5 4952.436	5 4952.393
	4955.512	4955.129	4953.532	4953.492
	4956.957	4955.501	4953.910	4953.862
	4957.913	4956.944	4955.019	4954.995
	4957.981	4957.898	4955.145	4955.093
10	4958.479	10 4958.460	10 4955.515	10 4955.470
	4959.667	4959.655	4956.959	4956.915
	4960.063	4960.093	4957.916	4957.884
			4958.475	4958.440
			4958.970	4959.630
			15 4959.669	15 4960.259
			4960.161	

A	B	C	D
4960.287	4960.284	4960.292	4960.259
4961.221	4961.188	4960.627	4960.607
4961.776	4961.761	4961.216	4961.178
4962.638	4962.663	4961.780	4961.741
5 4962.708	5 4963.116	5 4962.140	5 4962.108
4963.132	4965.121	4962.648	4962.626
4964.425	4966.542	4963.136	4963.091
4965.137	4968.407	4964.891	4965.094
4966.561	4968.826	4965.137	4966.504
10 4968.146	10 4970.185	10 4966.560	10 4967.546
4968.817		4967.255	4968.372
4969.678		4968.416	4970.064
4970.248		4969.772	
		4970.093	

H	B	C	D
4970.351	4970.319	4970.346	4970.290
4971.600	4972.714	4971.955	4971.919
4973.048	4975.139	4972.721	4973.314
4974.446	4975.650	4973.080	4975.104
5 4975.664	5 4976.476	5 4975.162	5 4975.622
4977.419	4977.412	4975.669	4976.029
4978.379	4977.888	4976.478	4976.448
4980.216	4980.170	4977.901	4977.477
		4978.382	4977.866
		10 4980.209	10 4978.342
			4980.174

A	B	C	D
4980.216	4981.500	4980.209	4980.174
4981.517	4982.557	4981.518	4981.472
4982.570	4983.149	4982.573	4982.526
4983.173	4984.163	4983.179	4983.140
5 4984.173	5 4984.813	5 4983.419	5 4983.372
4984.826	4985.469	4984.177	4984.133
4985.488	4986.185	4984.829	4984.787
4986.196	4986.838	4985.490	4985.448
4986.852	4987.152	4986.201	4986.155
10 4987.171	10 4988.655	10 4986.853	10 4986.804
4988.667	4988.770	4987.171	4987.135
4988.789	4989.288	4988.669	4988.657
4989.307	4990.075	4988.785	4989.265
4989.996		4989.329	4990.069
		15 4990.029	

A	B	C	D
4990.286	4990.273	4990.296	4990.250
4991.354	4991.318	4991.340	4991.298
4992.511	4992.915	4991.582	4992.902
4992.932	4994.233	4992.338	4994.206
5 4994.243	5 4996.939	5 4992.524	5 4995.129
4996.802	4998.430	4992.926	4995.627
4996.956	5000.204	4994.250	4996.915
4998.447		4995.156	4997.320
5000.220		4996.691	4998.402
		10 4996.803	10 5000.179
		4996.956	
		4997.351	
		4998.447	
		5000.221	

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