

Supplementary Materials

SYNTHESIS, CHARACTERIZATION AND IN-VITRO ANTIBACTERIAL STUDIES OF NOVEL TRANSITION METAL (II) COMPLEXES OF 2,5-DIAMINO-2-(DIFLUOROMETHYL) PENTANOIC ACID HYDROCHLORIDE HYDRATE.

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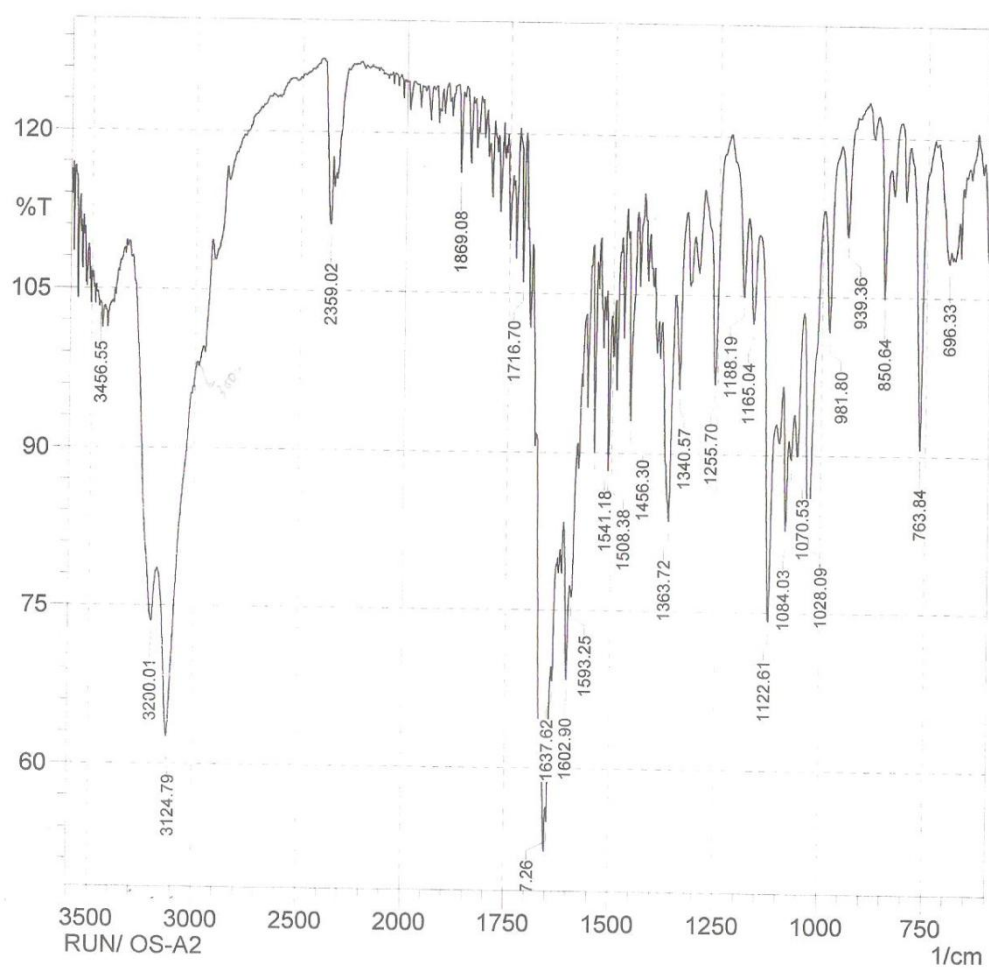
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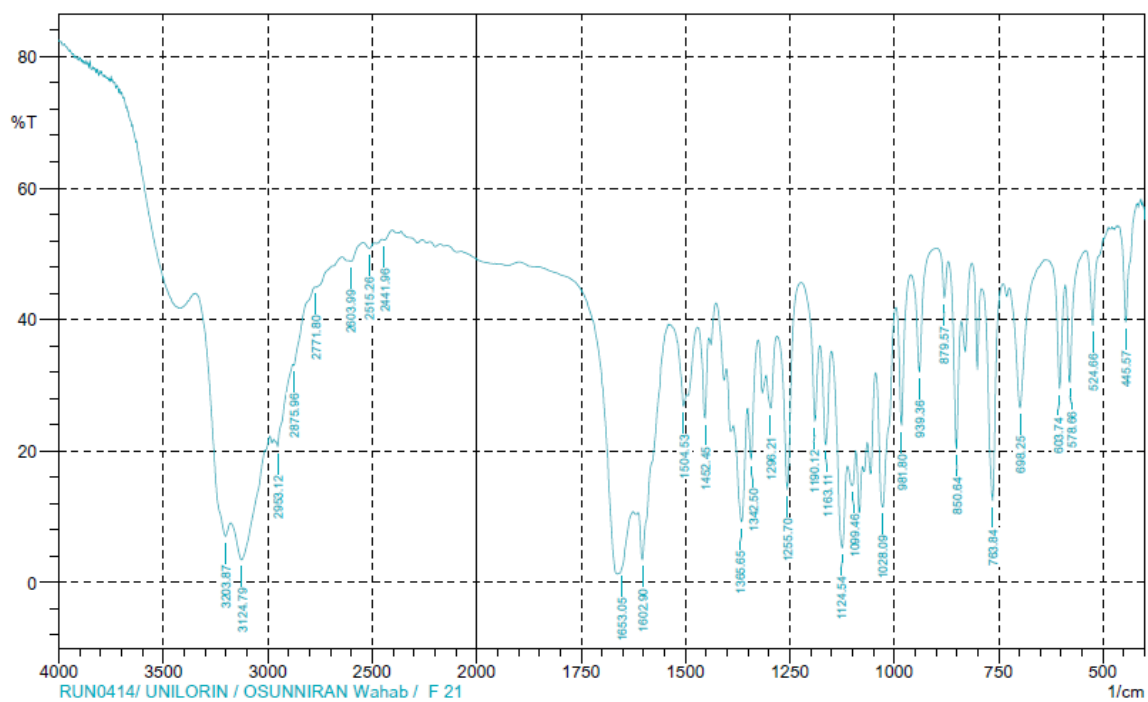
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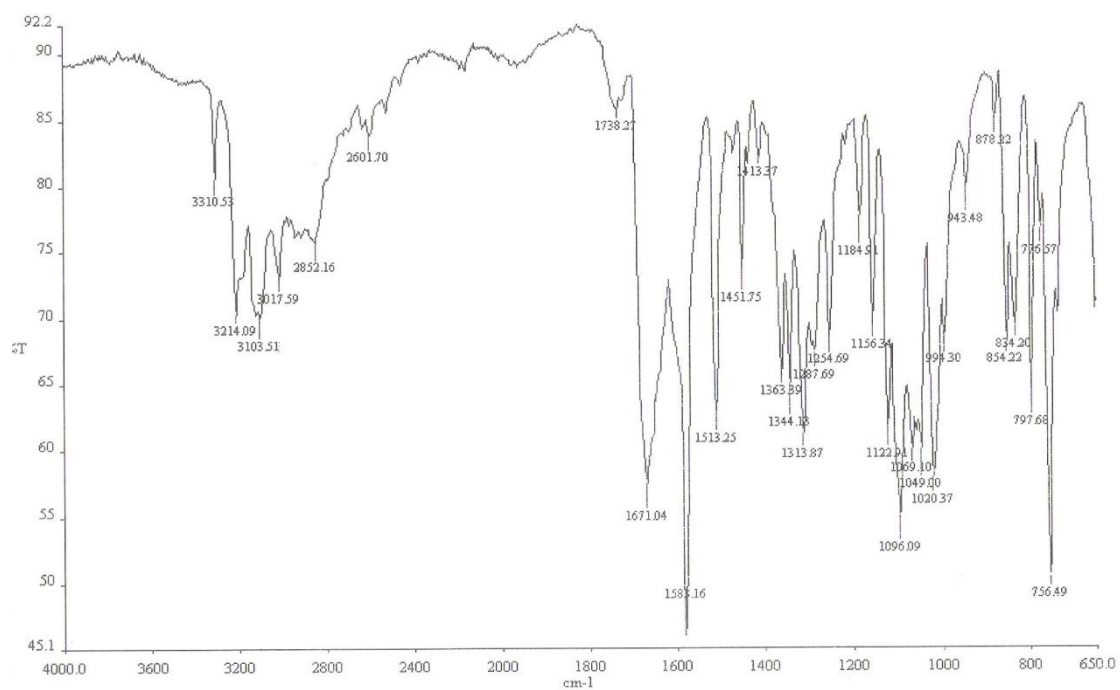
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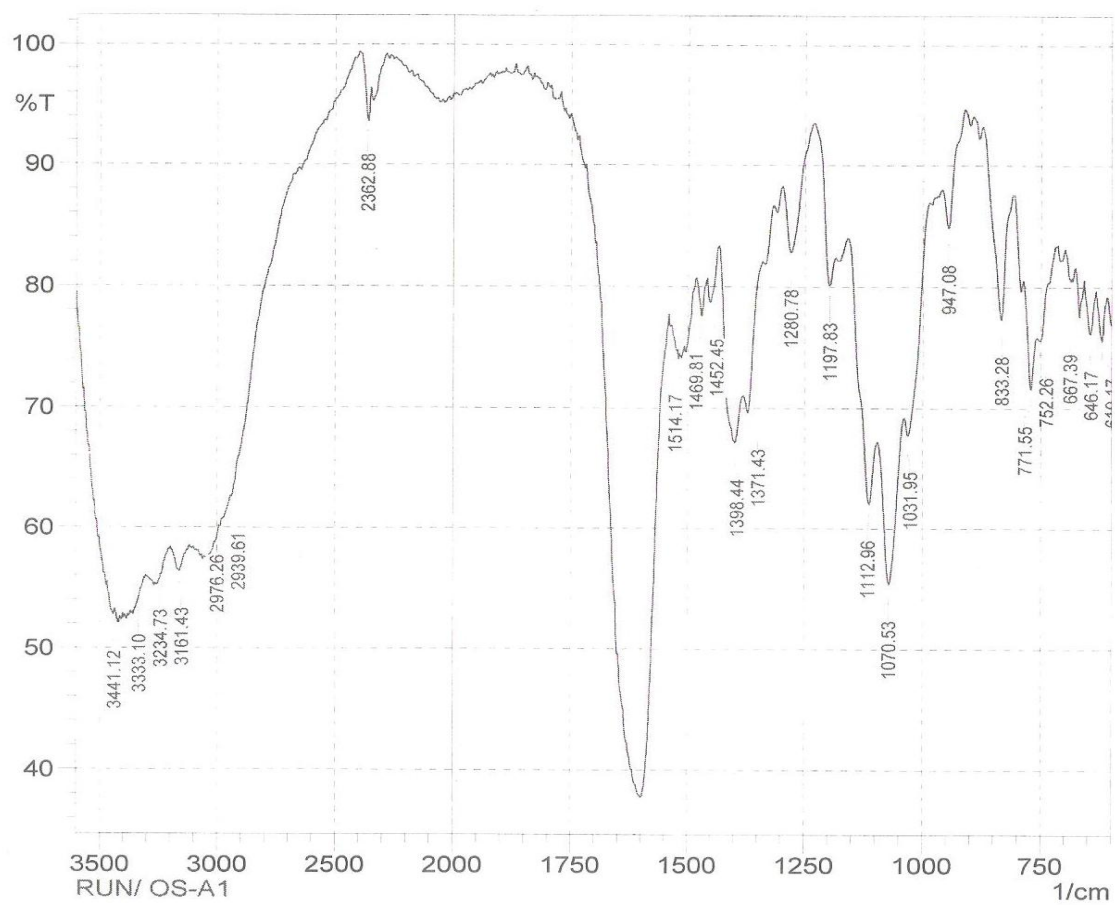


FTIR SPECTRUM OF COMPLEX 1

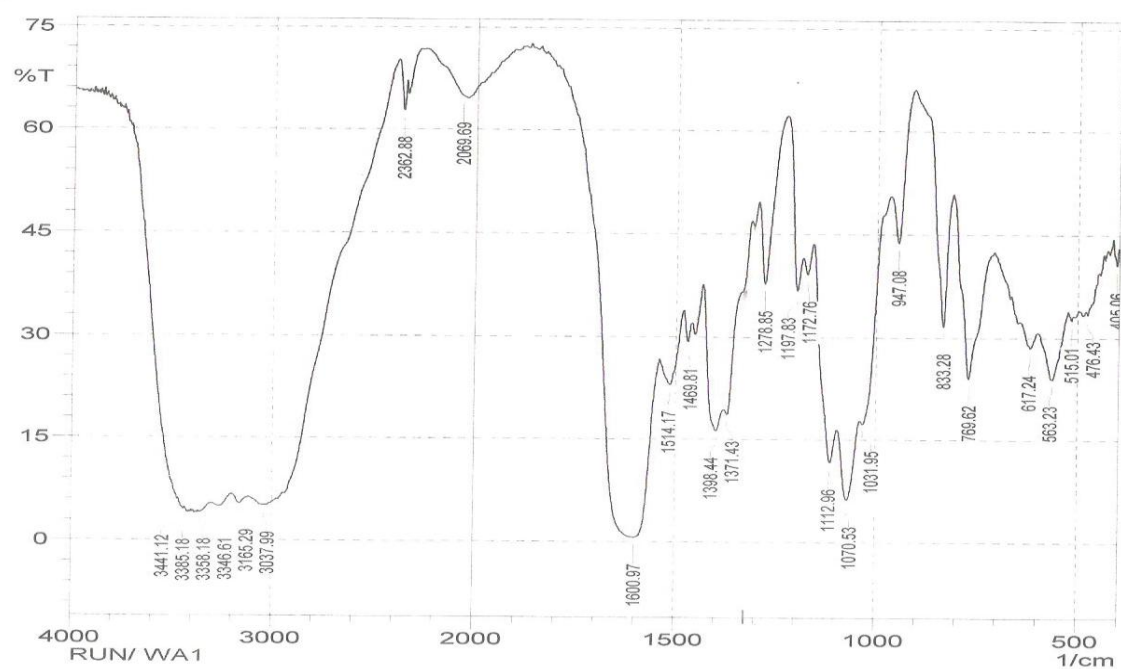
**FTIR SPECTRUM OF COMPLEX 2**



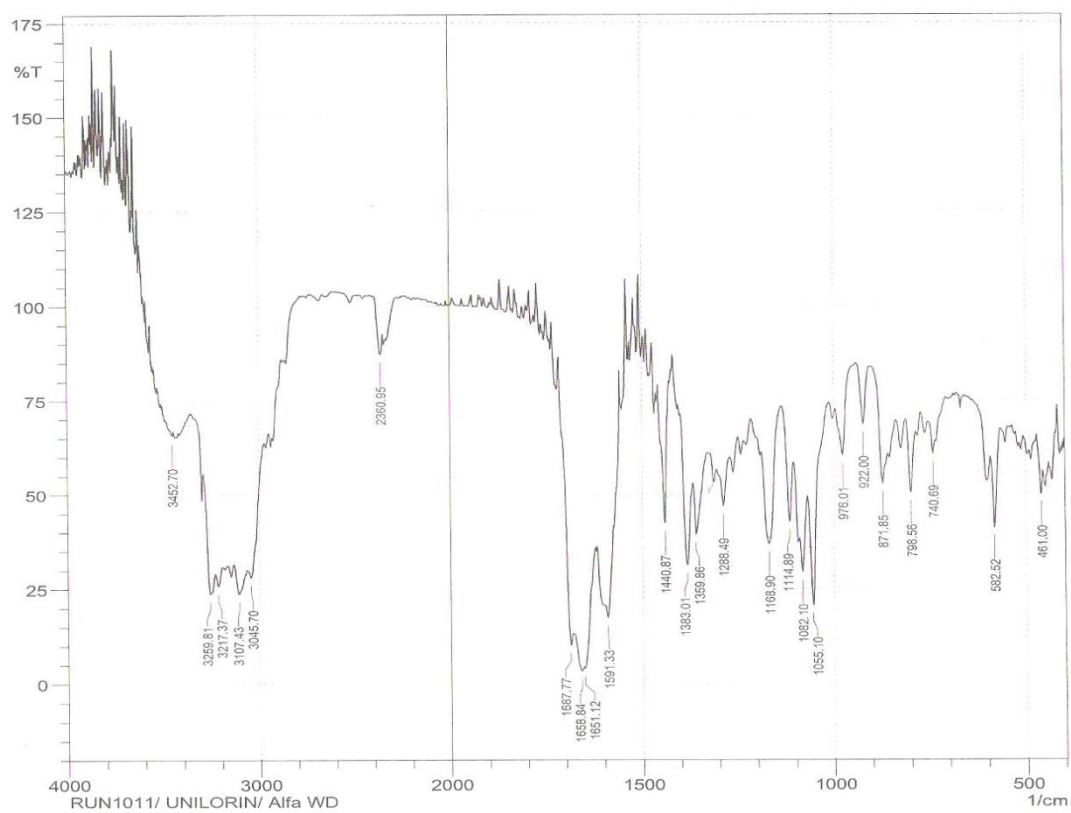
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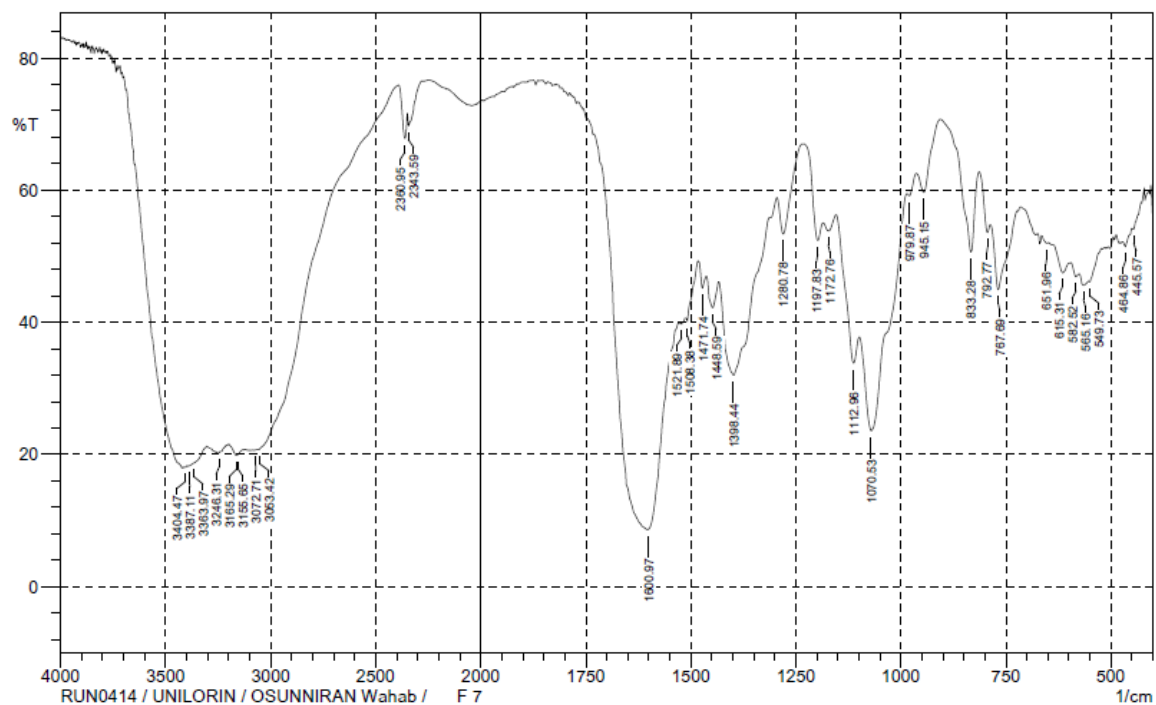
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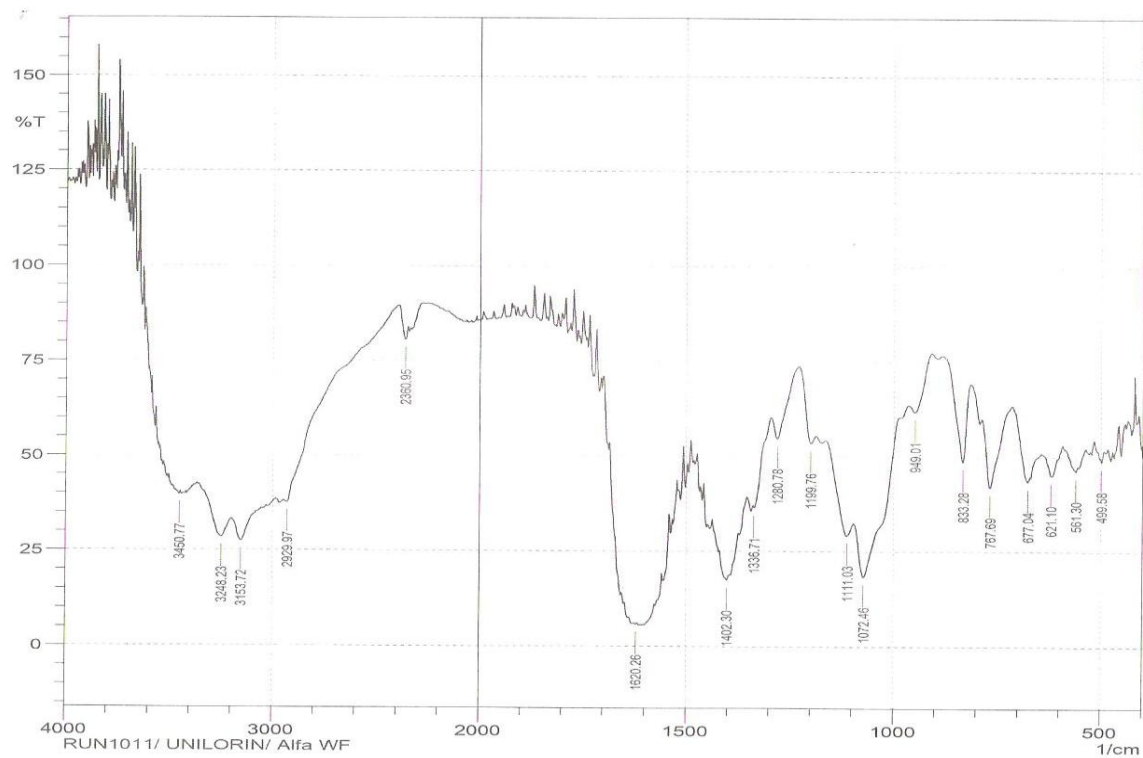
FTIR SPECTRUM OF COMPLEX 5



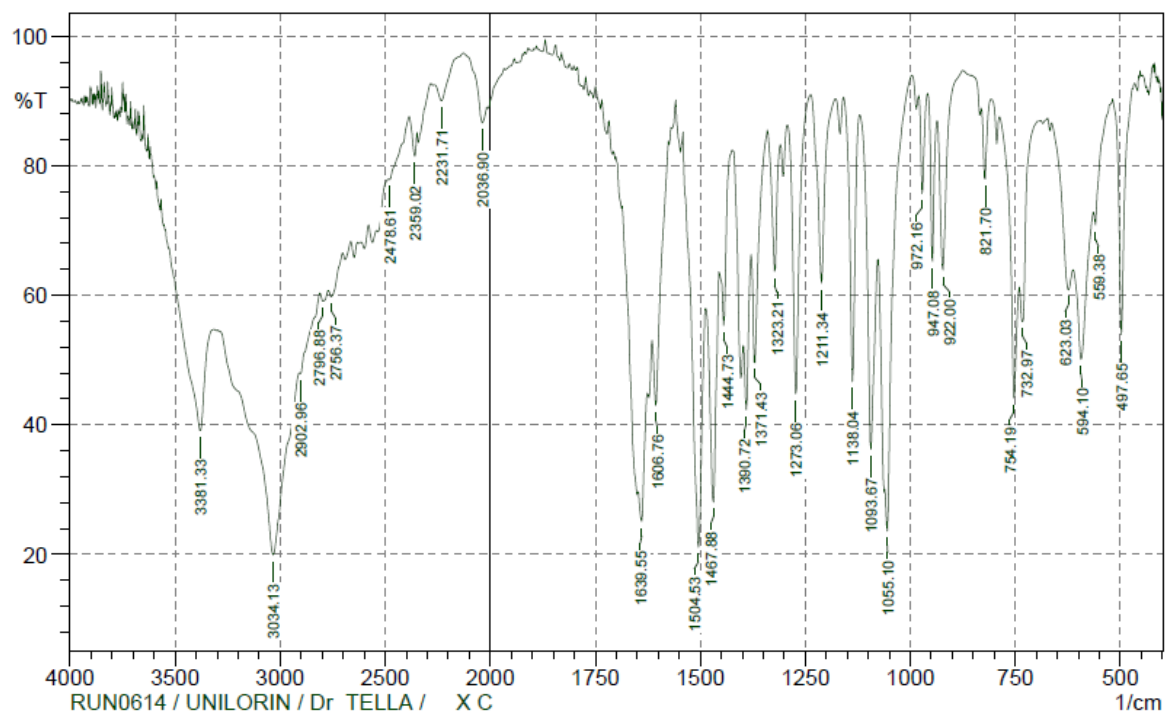
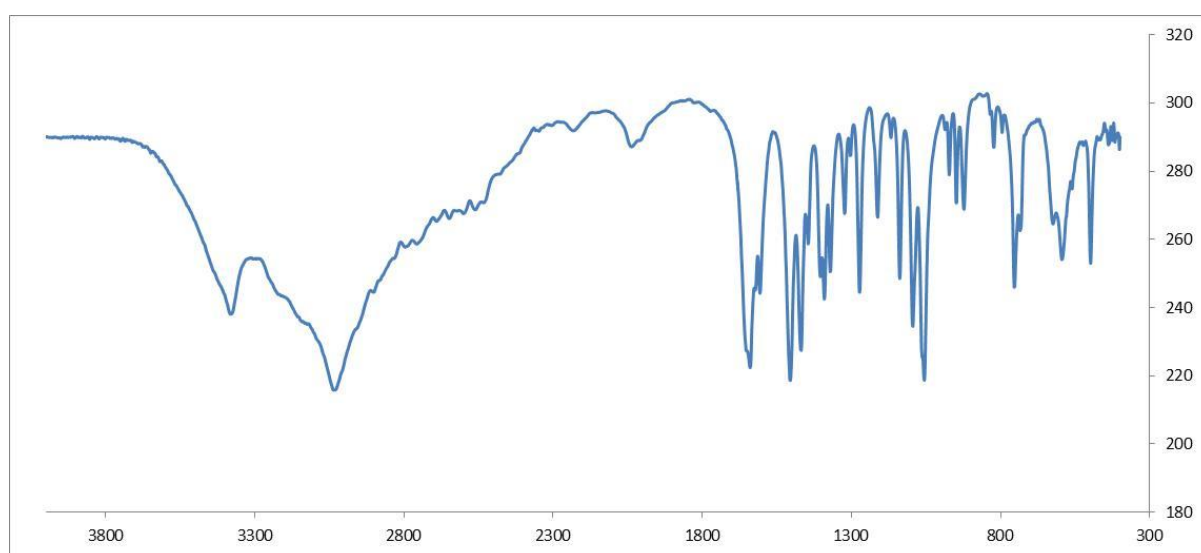
FTIR SPECTRUM OF COMPLEX 6



FTIR SPECTRUM OF COMPLEX 7



FTIR SPECTRUM OF COMPLEX 8

**FTIR SPECTRUM OF COMPLEX 9****FTIR SPECTRUM OF LIGAND(DPH)**

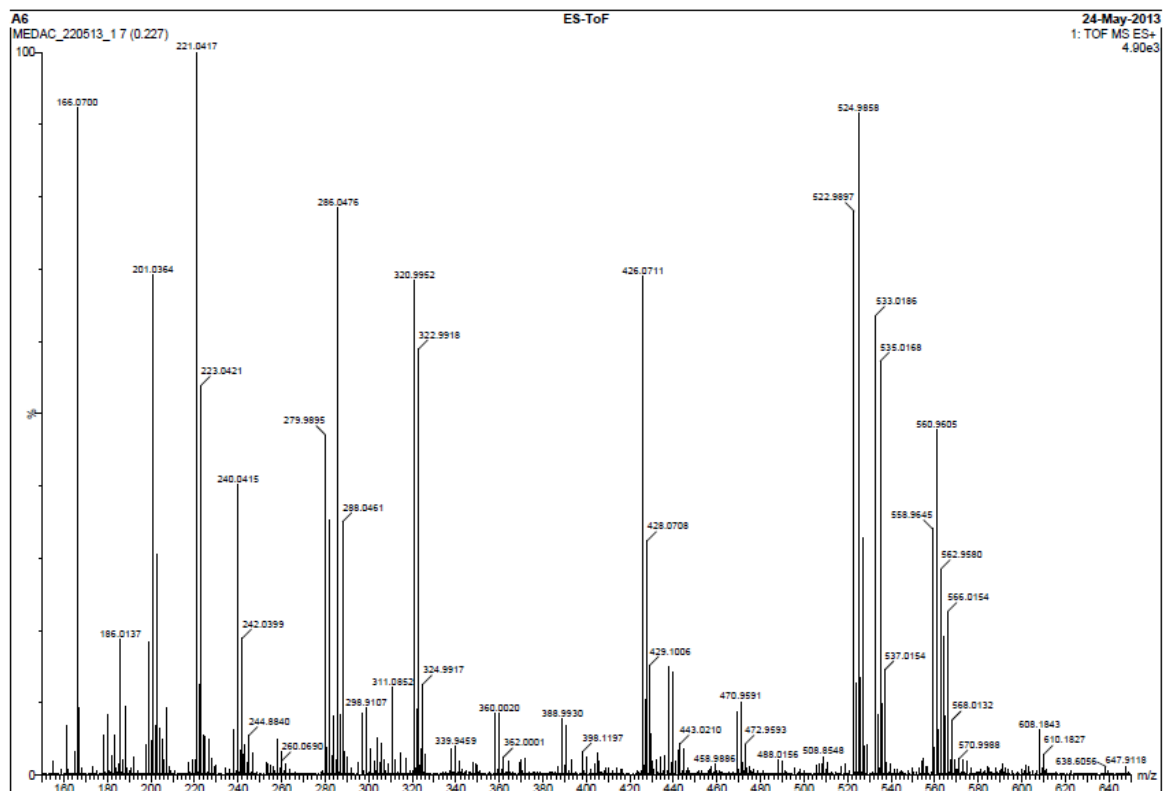


Fig 4 :ESI-MS spectra for $[\text{Cu}(\text{DPH})_2(\text{Cl})(\text{H}_2\text{O})]\cdot\text{HCl}$ [1]

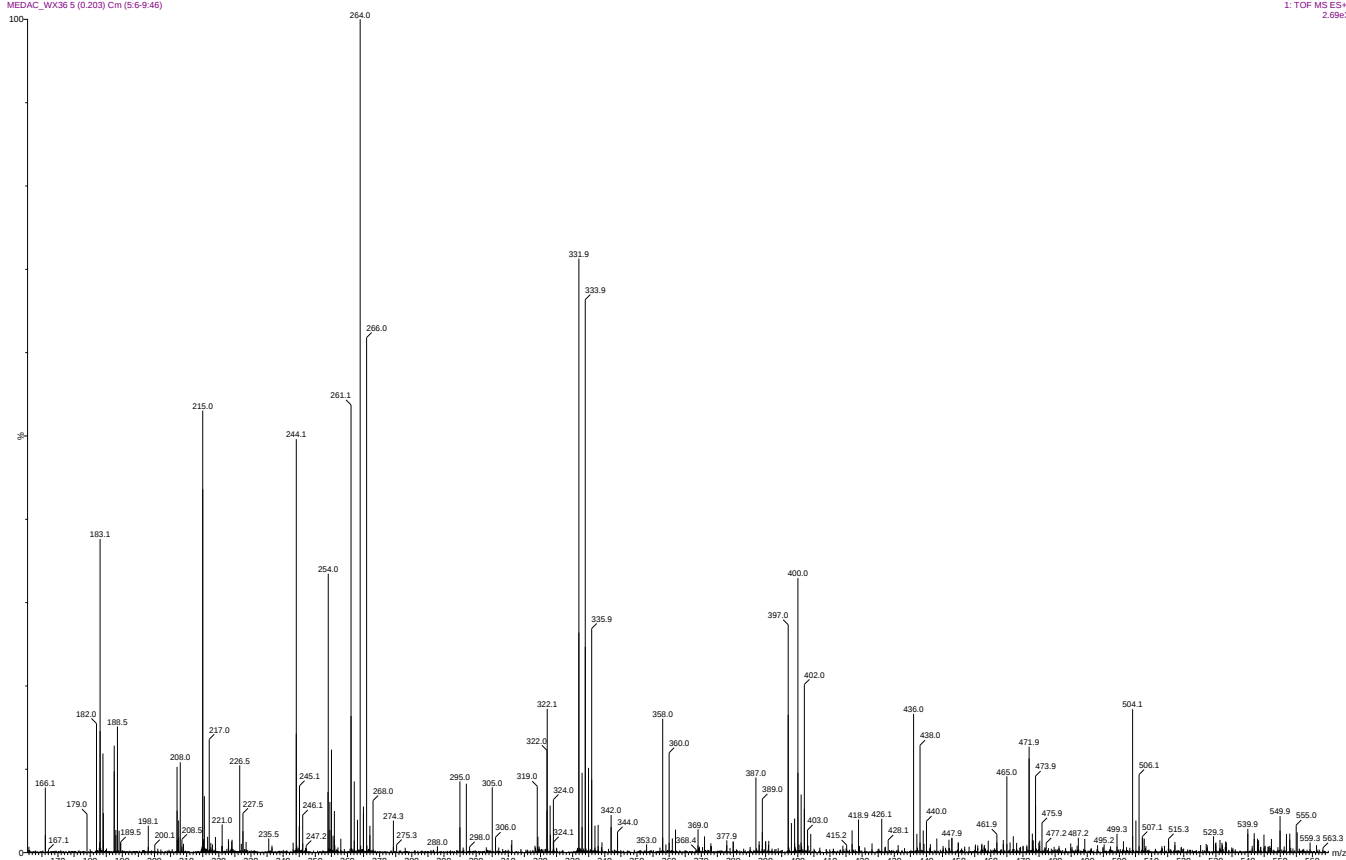


Fig 5: ESI-MS SPECTRA for [Cu(DPH)₂(H₂O)₂]·HCl [2]

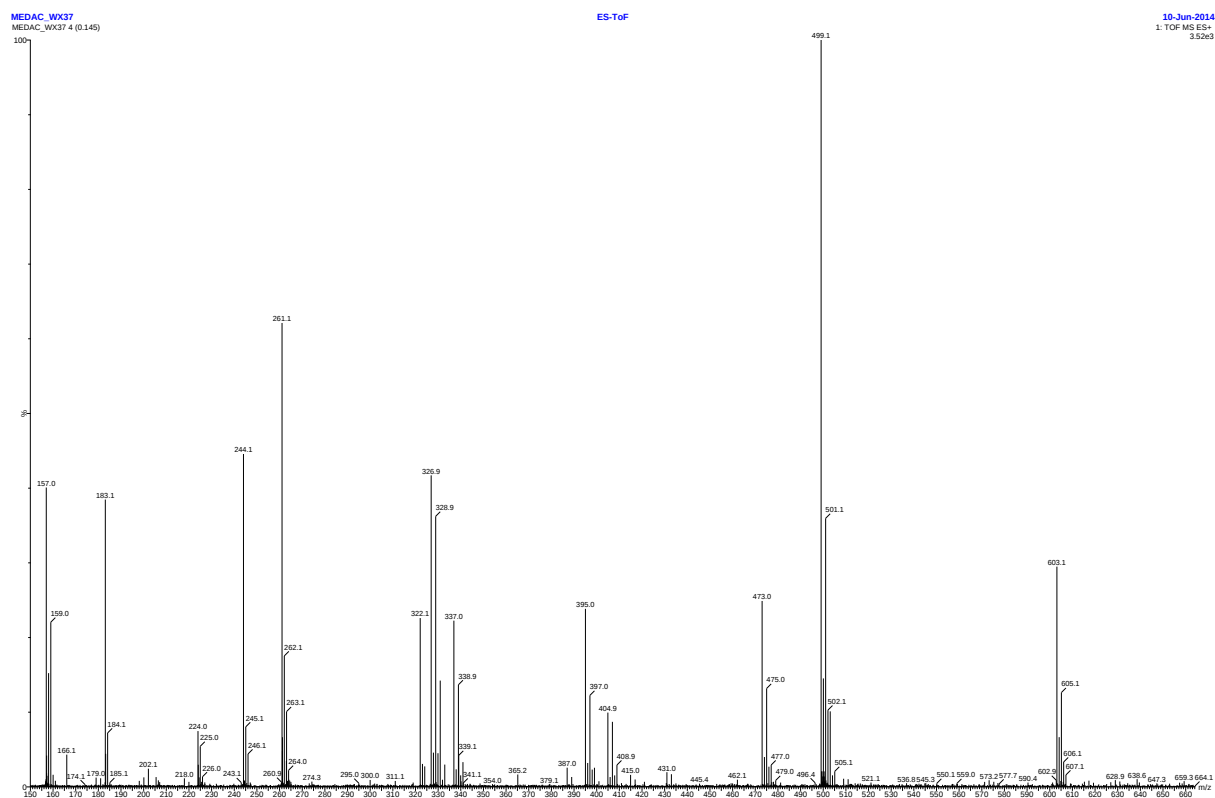


Fig 6: ESI-MS SPECTRA for $[\text{Ni}(\text{DPH})_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O} \cdot 2\text{HCl}$ [5]

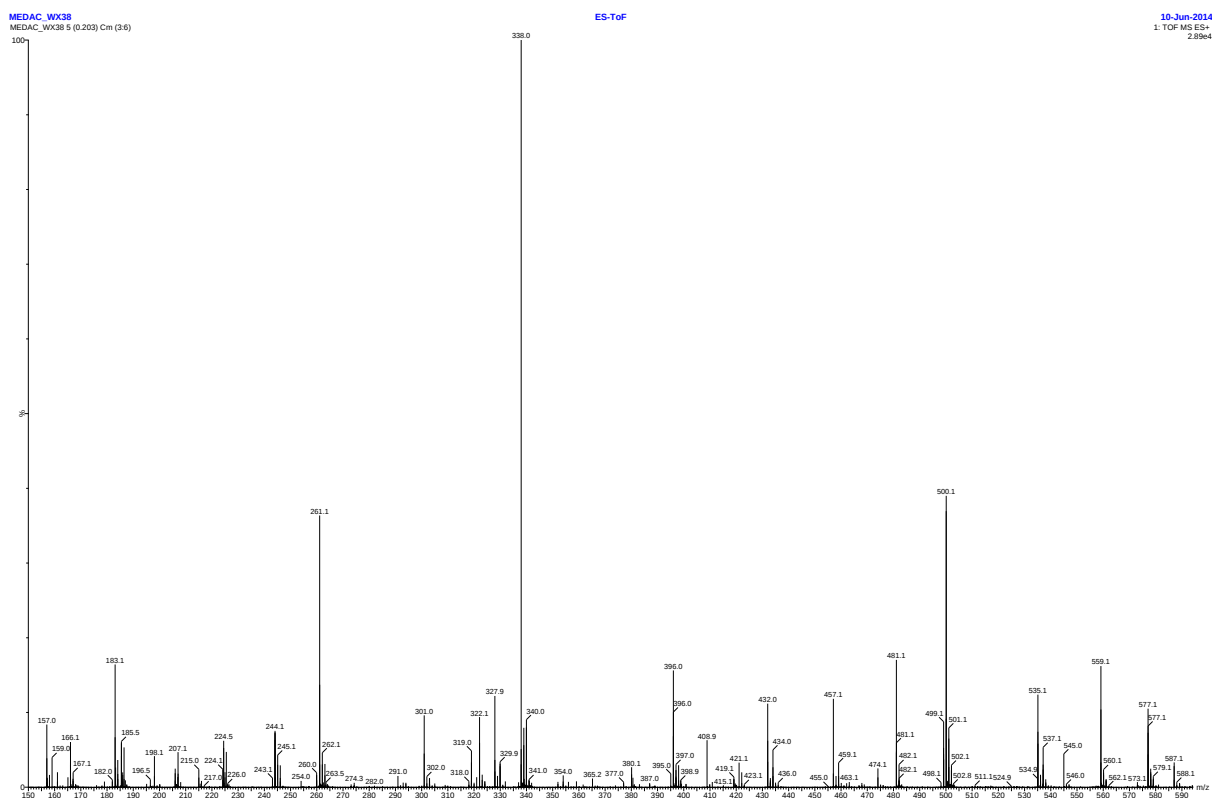


Fig 7: ESI-MS SPECTRA for [Co(DPH)₂(CH₃COO)(H₂O)].H₂O.2HCl [7]

	DPH	COMPLEX 1	COMPLEX2
399.2782	290	74.755669	76.616758
401.207	286.3238	77.693935	76.605577
403.1359	290.3233	77.303756	75.456573
405.0648	291.0677	79.414025	76.182472
406.9937	291.2133	80.199035	77.197506
408.9226	290.166	81.077632	78.243981
410.8514	290.7796	80.654485	77.80609
412.7803	290.134	81.645377	77.626365
414.7092	289.2566	81.075741	76.558424
416.6381	288.5631	81.096896	76.991268
418.567	291.9945	80.919846	77.395347
420.4958	294.1086	81.199413	77.15153
422.4247	291.1835	78.600595	75.525899
424.3536	289.0012	76.875368	74.556292
426.2825	289.4267	74.552076	73.419395

428.2114	291.629	72.72012	73.005731
430.1402	293.1158	68.534034	70.707703
432.0691	290.9384	64.060784	67.626097
433.998	288.5152	59.520466	65.710876
435.9269	288.0893	57.829346	65.149159
437.8558	287.6929	56.409448	64.208167
439.7846	288.2556	53.243081	62.020097
441.7135	290.5824	48.279712	57.887881
443.6424	292.0634	44.108495	54.702803
445.5713	291.5777	43.8723	54.312291
447.5002	291.8884	49.298925	57.756681
449.429	293.1415	55.866562	62.001245
451.3579	294.0407	63.052457	65.807006
453.2868	293.4503	69.233611	68.695121
455.2157	291.7635	73.01248	70.509256
457.1446	291.1837	74.663561	71.778436
459.0734	290.7608	77.103439	72.778661
461.0023	290.3973	77.73346	72.806536
462.9312	289.7993	78.799399	73.366979
464.8601	289.2176	78.431645	72.81179
466.789	289.2182	78.529128	72.745899
468.7178	289.6407	78.572197	72.93738
470.6467	289.5976	78.941569	73.060443
472.5756	289.1309	78.416587	72.89798
474.5045	289.3326	78.669749	72.875023
476.4334	290.1017	78.50263	72.665006
478.3622	289.1614	79.095187	73.00729
480.2911	288.1478	78.796236	72.479882
482.22	287.3721	78.822644	72.459024
484.1489	286.4626	78.673253	72.713937
486.0778	284.3721	78.775832	72.815367
488.0066	281.036	78.192881	72.36792
489.9355	276.8525	77.715268	71.946346
491.8644	271.9748	76.995417	71.295656
493.7933	264.9885	76.854467	71.287649
495.7222	257.3834	75.743639	70.781021
497.651	252.9564	75.172738	70.297611
499.5799	255.8274	74.194877	69.729453
501.5088	263.7446	73.151172	69.146554
503.4377	273.1088	71.388585	68.067098
505.3666	279.1136	70.224652	67.437346
507.2954	283.7422	68.838453	67.068913
509.2243	286.3211	68.538584	66.92844

511.1532	287.4695	68.043996	66.495232
513.0821	288.3252	67.275135	66.296518
515.011	288.8197	65.435927	65.653182
516.9398	288.4791	62.844532	64.283607
518.8687	288.0432	58.41476	61.887974
520.7976	287.7098	53.043266	58.804478
522.7265	287.5337	47.716912	55.352762
524.6554	288.2837	45.795789	53.783714
526.5842	288.6204	49.555821	55.716375
528.5131	288.2494	56.426206	59.410382
530.442	288.1065	62.701709	62.651349
532.3709	288.3638	67.571544	64.998073
534.2998	288.5478	70.620529	66.401121
536.2286	288.131	72.816037	67.620416
538.1575	287.5956	73.792893	68.188398
540.0864	287.095	74.316764	68.468795
542.0153	286.5079	74.404627	68.478444
543.9442	285.5795	74.189455	68.250266
545.873	284.2926	73.762406	67.894827
547.8019	283.5165	73.311377	67.653375
549.7308	282.7485	72.676564	67.320186
551.6597	280.8682	72.134514	66.967062
553.5886	279.6455	71.27249	66.394511
555.5174	278.9682	70.635531	66.032347
557.4463	277.128	69.798358	65.689951
559.3752	274.8237	68.80728	65.168537
561.3041	275.1467	67.168652	64.386939
563.233	276.7889	65.467642	63.562568
565.1618	276.9846	63.465514	62.566767
567.0907	275.7315	61.158611	61.38535
569.0196	274.6313	58.476702	60.029348
570.9485	273.8212	55.211391	58.266913
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590.2373	255.6589	62.317345	61.1136
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601.8106	261.4433	31.832465	41.836773
603.7394	263.5547	30.959408	40.764052
605.6683	265.0126	34.79651	43.385751
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611.455	267.5366	58.475386	57.943896
613.3838	267.7647	63.87599	60.845654
615.3127	267.5483	67.509363	62.712389
617.2416	267.0035	70.239993	64.087784
619.1705	266.1472	71.915832	64.954953
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623.0282	264.6052	73.724714	65.850429
624.9571	264.5739	74.315654	66.287957
626.886	265.503	74.726407	66.612582
628.8149	267.1398	74.943004	66.765309
630.7438	269.6091	74.765479	66.699813
632.6726	271.9198	74.708998	66.57991
634.6015	274.0247	74.710924	66.51978
636.5304	276.5428	74.74762	66.512092
638.4593	279.7204	74.361967	66.344105
640.3882	281.933	74.165424	66.336876
642.317	283.361	73.892445	66.189683
644.2459	285.0584	73.628468	66.031641
646.1748	286.6361	73.225894	65.821149
648.1037	287.8024	72.928283	65.580294
650.0326	289.0185	72.42336	65.291474
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655.8192	291.7705	70.69484	64.425441
657.7481	292.2382	69.916444	64.012014
659.677	292.619	69.311385	63.837394
661.6058	292.9926	68.386982	63.436309
663.5347	293.192	67.312675	62.895629
665.4636	293.5483	66.26202	62.418332
667.3925	294.4704	65.926946	62.010588
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671.2502	294.8564	63.146926	60.917009
673.1791	294.5983	61.480368	60.041382
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682.8235	294.3455	50.073343	54.231025
684.7524	294.335	46.598467	52.218937
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688.6102	294.3306	39.011261	47.569464
690.539	294.0551	35.321731	44.923293
692.4679	293.9588	31.858686	42.146363
694.3968	294.1107	29.05369	39.646626
696.3257	294.0264	26.974704	37.664128
698.2546	293.7943	26.417671	36.882391
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761.9076	274.9317	10.779756	20.897749
763.8365	278.8391	8.960901	17.457528
765.7654	281.9192	10.129651	18.550965
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769.6231	286.4386	15.253853	24.522415
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775.4098	291.4528	35.258491	41.677524
777.3386	292.5496	43.35335	47.357085
779.2675	293.56	50.031804	51.53263
781.1964	294.7391	55.606461	54.569507
783.1253	295.6754	60.112854	56.759862
785.0542	296.2943	63.341711	58.281068
786.983	296.4853	65.164021	59.072714
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790.8408	295.5742	65.844939	59.350103
792.7697	292.9671	64.763469	58.969113
794.6986	291.3425	61.303209	57.48274
796.6274	293.2086	54.077135	53.937354
798.5563	295.4819	43.952813	48.014178
800.4852	296.7906	37.631182	43.575942
802.4141	297.5412	42.323857	46.012439
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806.2718	298.5257	66.499412	59.845983
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835.205	296.6827	49.110859	50.735054
837.1339	298.5797	50.928304	51.942986
839.0628	300.7458	51.031889	52.252715
840.9917	301.8413	49.038078	51.43416

842.9206	302.4474	44.559274	49.022089
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846.7783	302.6062	29.437455	38.221142
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852.565	302.0829	20.909238	28.936277
854.4938	302.0368	29.243422	35.680644
856.4227	302.0316	41.228775	44.312611
858.3516	301.9439	52.950341	51.662788
860.2805	302.005	62.275615	56.904438
862.2094	302.1354	69.007952	60.421483
864.1382	302.308	73.683349	62.739298
866.0671	302.4709	76.798221	64.326107
867.996	302.5779	78.635419	65.317049
869.9249	302.6136	79.317971	65.773597
871.8538	302.5871	78.607686	65.621598
873.7826	302.5438	75.748642	64.478794
875.7115	302.3336	70.585693	62.038226
877.6404	302.086	65.62369	59.374447
879.5693	301.8895	64.213135	58.295407
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883.427	301.3449	74.455957	63.240759
885.3559	301.2384	79.064799	65.589716
887.2848	301.163	81.463945	66.803658
889.2137	301.0632	82.697891	67.418424
891.1426	300.9844	83.389089	67.828145
893.0714	300.9659	83.72043	68.128338
895.0003	300.8207	83.815758	68.316158
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898.8581	300.1252	83.498825	68.315688
900.787	299.5626	83.220671	68.251192
902.7158	298.9423	82.865806	68.149624
904.6447	297.9627	82.439779	68.047819
906.5736	296.6768	81.938527	67.922431
908.5025	295.1237	81.377937	67.731442
910.4314	293.1733	80.825564	67.540636
912.3602	290.4659	80.204753	67.346817
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925.8624	272.5778	69.56026	63.296029
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929.7202	282.1765	61.702928	59.673593
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933.5779	290.7391	49.683495	53.141988
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954.7956	294.0418	68.117074	61.38096
956.7245	296.2049	68.654898	61.861464
958.6534	296.8763	68.592719	62.025919
960.5822	296.6471	68.012437	61.951854
962.5111	295.6731	66.965123	61.688575
964.44	293.8648	65.414145	61.188929
966.3689	290.9795	63.299834	60.425518
968.2978	286.3854	60.5347	59.305781
970.2266	280.9598	56.971237	57.70614
972.1555	278.9864	52.470885	55.48706
974.0844	283.1073	46.879957	52.443453
976.0133	289.1937	40.040544	48.257172
977.9422	293.0024	32.3743	42.758422
979.871	294.278	25.370782	36.730766
981.7999	294.0312	21.514087	32.704471
983.7288	292.908	22.997996	33.492622
985.6577	292.1413	29.473162	38.652587
987.5866	292.8054	37.939639	44.96417
989.5154	294.2723	45.249195	49.991369
991.4443	295.5279	50.138745	53.211921
993.3732	296.2174	52.758221	54.979705
995.3021	296.3788	53.483116	55.640555
997.231	296.2559	52.574196	55.394969
999.1598	296.0568	50.219983	54.378218
1001.089	295.6825	46.50009	52.502231
1003.018	295.1229	41.543859	49.638029
1004.946	294.488	35.657625	45.737785
1006.875	293.8246	29.506668	40.963102

1008.804	293.2372	24.305978	36.252939
1010.733	292.586	21.361169	33.142219
1012.662	291.9356	20.361309	31.904858
1014.591	291.2908	19.700357	31.138396
1016.52	290.5559	18.398512	29.77491
1018.449	289.6281	16.382028	27.63681
1020.378	288.5683	13.725197	24.523376
1022.306	287.4305	10.895724	20.678393
1024.235	286.2314	8.712781	17.296256
1026.164	285.0457	7.7672	15.566298
1028.093	283.9081	7.798995	15.431259
1030.022	282.7025	8.373283	16.146579
1031.951	281.06	9.760078	17.839566
1033.88	278.9087	13.134619	21.657362
1035.809	276.2167	18.783727	27.350059
1037.737	272.9075	25.329617	33.071168
1039.666	269.1569	30.924998	37.433891
1041.595	265.6742	34.527335	40.161265
1043.524	262.1589	35.862047	41.34788
1045.453	257.023	34.989367	41.108171
1047.382	249.6427	32.093121	39.423604
1049.311	240.4356	27.366996	36.107073
1051.24	230.6445	21.37625	31.083285
1053.168	222.6417	15.819506	25.481327
1055.097	218.7508	12.814133	21.900008
1057.026	219.6965	12.674785	21.524799
1058.955	223.4073	13.935588	22.867338
1060.884	225.75	15.765993	24.817141
1062.813	225.4042	17.36495	26.561707
1064.742	227.9746	17.485899	26.850239
1066.671	236.7102	15.797043	25.241149
1068.6	246.983	13.510476	22.785222
1070.528	254.772	12.118587	21.112693
1072.457	261.3526	12.054269	20.934104
1074.386	266.5982	12.587792	21.596727
1076.315	269.239	12.692345	21.901215
1078.244	269.279	11.546645	20.658373
1080.173	266.9568	9.361044	17.656089
1082.102	262.574	7.3488	14.267782
1084.031	257.034	7.244487	13.41002
1085.959	252.188	9.798935	16.562026
1087.888	248.5251	13.810842	21.520503
1089.817	244.249	16.731063	24.971295

1091.746	238.642	17.047437	25.578606
1093.675	234.5218	15.270435	23.893787
1095.604	235.4727	13.006232	21.390348
1097.533	242.1018	11.595158	19.619347
1099.462	251.8009	11.297755	19.159889
1101.39	261.4309	11.327464	19.131208
1103.319	269.3643	11.451575	19.124756
1105.248	275.5046	12.164093	19.90076
1107.177	280.1655	13.254854	21.180763
1109.106	283.7284	14.079911	22.013796
1111.035	286.4534	14.645935	22.502896
1112.964	288.5024	14.415151	22.305374
1114.893	289.9281	12.708696	20.557041
1116.822	291.0141	9.749788	17.087212
1118.75	291.6835	6.726166	12.913026
1120.679	291.8971	4.531361	9.375146
1122.608	291.4413	3.401837	7.299928
1124.537	290.2137	3.138631	6.713736
1126.466	287.7871	3.596562	7.336653
1128.395	283.636	4.540939	8.641669
1130.324	277.2351	6.162784	10.830117
1132.253	268.7446	9.03917	14.545576
1134.181	259.0274	13.531499	19.73635
1136.11	250.8316	19.247025	25.383824
1138.039	248.5906	25.368521	30.524518
1139.968	253.8995	31.135449	34.76565
1141.897	263.7469	36.227693	38.154983
1143.826	273.4704	40.472157	40.830065
1145.755	280.6826	43.783925	42.893506
1147.684	285.7318	46.054805	44.335997
1149.612	289.2754	47.121983	45.07554
1151.541	291.7419	46.739092	45.041915
1153.47	293.4663	44.27515	43.815969
1155.399	294.6622	39.37376	40.929184
1157.328	295.3726	32.897381	36.567077
1159.257	295.5744	27.025829	32.043438
1161.186	295.0499	23.247991	28.789919
1163.115	293.6027	21.63727	27.201388
1165.044	291.3785	22.474306	27.687704
1166.972	289.8104	26.321349	30.59981
1168.901	290.3965	32.433306	35.037534
1170.83	292.5073	38.924265	39.385741
1172.759	294.4829	44.221548	42.648407

1174.688	295.8336	47.800893	44.740655
1176.617	296.5214	49.638287	45.830766
1178.546	296.7889	49.714237	45.984762
1180.475	296.7431	47.77904	45.083962
1182.403	296.6728	43.708502	42.931824
1184.332	296.5102	37.831835	39.485728
1186.261	296.204	31.494688	35.31575
1188.19	295.8887	26.979895	32.01409
1190.119	295.5214	26.60905	31.63329
1192.048	295.1196	30.99353	34.697566
1193.977	294.7164	38.438997	39.494636
1195.906	293.9388	46.193078	43.964939
1197.834	292.8309	52.58564	47.333525
1199.763	291.2184	57.300423	49.698456
1201.692	288.8941	60.753664	51.40381
1203.621	285.63	63.449865	52.790904
1205.55	281.3421	65.82141	54.025222
1207.479	275.9537	68.017186	55.148119
1209.408	270.25	70.009889	56.169591
1211.337	266.525	71.684561	57.030657
1213.266	267.0136	73.097996	57.724928
1215.194	271.3981	74.103966	58.239828
1217.123	276.9695	74.815735	58.627133
1219.052	281.6262	75.208652	58.890933
1220.981	285.0387	75.377669	59.080546
1222.91	287.1723	75.253884	59.131817
1224.839	288.6522	74.936346	59.101576
1226.768	290.5078	74.353149	58.967309
1228.697	292.9583	73.486447	58.725341
1230.625	295.3319	72.256712	58.352079
1232.554	297.0571	70.662817	57.794922
1234.483	297.9786	68.531295	56.996186
1236.412	298.3932	65.840007	55.968225
1238.341	298.5413	62.427763	54.552127
1240.27	298.5876	58.200266	52.700896
1242.199	298.3365	52.96504	50.239662
1244.128	297.8983	46.608629	46.956143
1246.056	297.3131	39.132081	42.669216
1247.985	296.7429	30.98386	37.26559
1249.914	295.9063	22.996215	30.92675
1251.843	294.7898	16.455221	24.641857
1253.772	293.4459	12.505913	20.061848
1255.701	291.9247	11.484158	18.487172

1257.63	289.8469	13.175172	20.028525
1259.559	286.9753	17.176867	23.84074
1261.488	282.9327	23.128429	28.937001
1263.416	277.594	29.520716	33.74621
1265.345	270.481	35.37724	37.636347
1267.274	261.5808	40.223781	40.540065
1269.203	252.0811	44.131147	42.699372
1271.132	245.2175	47.246326	44.304545
1273.061	244.5671	49.630617	45.486032
1274.99	250.1039	51.226717	46.297257
1276.919	258.5632	52.21533	46.848338
1278.847	267.5788	52.615235	47.174376
1280.776	275.9701	52.463468	47.3172
1282.705	282.5499	51.629172	47.138283
1284.634	287.1026	49.868208	46.497523
1286.563	290.1584	46.789634	45.148813
1288.492	292.0904	42.142719	42.809121
1290.421	293.1799	36.628453	39.595499
1292.35	293.5791	31.701114	36.286737
1294.278	293.4106	28.965583	34.105927
1296.207	292.5812	28.87325	33.795671
1298.136	290.7868	29.975764	34.435374
1300.065	287.7468	31.17204	35.089089
1301.994	284.7716	33.488865	36.45235
1303.923	284.5737	36.796471	38.551735
1305.852	287.0504	38.837512	39.87827
1307.781	289.0812	38.51079	39.70547
1309.71	289.6835	37.118258	38.783864
1311.638	289.2313	35.941297	37.97492
1313.567	287.7998	34.819432	37.114119
1315.496	284.9722	34.094037	36.389245
1317.425	280.2606	35.852141	37.216711
1319.354	273.5362	41.277603	40.312759
1321.283	268.0328	47.111609	43.630609
1323.212	267.6336	50.428649	45.53439
1325.141	271.224	51.388403	46.199378
1327.069	274.8838	50.527599	45.974649
1328.998	278.5526	48.24906	45.050828
1330.927	282.6304	44.964802	43.585532
1332.856	285.631	40.860365	41.500158
1334.785	287.4569	35.947168	38.694234
1336.714	288.8978	30.343362	35.001193
1338.643	289.83	24.55273	30.516482

1340.572	290.5524	19.206362	25.691328
1342.5	290.8987	17.207534	23.731899
1344.429	290.7543	17.895141	24.316419
1346.358	290.0848	21.188628	27.070321
1348.287	289.131	25.749488	30.664987
1350.216	287.7421	28.533356	32.876024
1352.145	286.2007	27.751833	32.566467
1354.074	284.2946	24.185035	30.142578
1356.003	281.9849	19.183565	26.162695
1357.932	279.2613	14.413959	21.676542
1359.86	276.2585	10.622666	17.421783
1361.789	272.4548	8.101316	14.044254
1363.718	267.0433	6.719745	11.726369
1365.647	261.4103	6.615695	11.276128
1367.576	255.6064	7.158817	11.807047
1369.505	250.8937	8.55753	13.399232
1371.434	250.5679	10.185378	15.317871
1373.363	255.1836	12.47256	17.804385
1375.291	262.8969	16.034265	21.264011
1377.22	268.1394	18.878005	23.792968
1379.149	270.1369	21.291984	25.666015
1381.078	268.8175	23.23802	27.015261
1383.007	264.7411	24.869826	28.121933
1384.936	258.7751	25.638981	28.796541
1386.865	251.3109	24.972269	28.543092
1388.794	244.3317	24.068681	28.124965
1390.722	242.5192	23.762908	28.089475
1392.651	244.9901	23.487916	27.982449
1394.58	249.6327	26.385385	30.073492
1396.509	253.7693	33.09899	34.832048
1398.438	254.61	37.666609	37.915306
1400.367	252.7375	40.826896	39.97038
1402.296	250.1801	40.711841	40.101993
1404.225	249.0869	39.299696	39.418021
1406.154	251.1158	37.748157	38.487389
1408.082	256.0093	37.75093	38.503913
1410.011	263.0549	40.09938	39.933717
1411.94	270.7052	44.802231	42.628025
1413.869	276.7786	49.833622	45.396428
1415.798	280.8039	53.871239	47.519489
1417.727	283.4981	57.572465	49.349406
1419.656	285.5341	63.057347	51.85129
1421.585	286.7186	65.503082	53.00643

1423.513	287.1471	66.506462	53.464223
1425.442	287.4406	67.988949	54.149064
1427.371	287.3401	67.685247	54.114052
1429.3	286.8408	66.656322	53.745375
1431.229	285.8773	64.332773	52.798695
1433.158	284.7115	60.568968	51.093427
1435.087	282.8711	56.276868	49.04294
1437.016	278.4829	52.121804	46.736393
1438.944	272.638	50.794257	45.888753
1440.873	266.6218	51.629514	46.297491
1442.802	260.5801	52.732591	46.87806
1444.731	258.6842	51.776143	46.52332
1446.66	261.1645	47.915916	44.682392
1448.589	264.8963	39.121785	39.82728
1450.518	266.168	30.975858	34.663899
1452.447	266.8177	26.776325	31.45304
1454.376	267.3602	27.347325	31.533076
1456.304	265.9891	30.649727	33.615537
1458.233	259.8064	40.799035	39.594162
1460.162	254.2295	45.311686	42.151878
1462.091	248.5322	48.384852	43.823858
1464.02	241.1426	52.056326	45.639945
1465.949	231.8139	56.393793	47.594754
1467.878	227.4825	57.591695	48.132419
1469.807	227.6521	57.194944	47.96853
1471.735	229.3845	56.576768	47.706177
1473.664	234.1927	56.405125	47.652387
1475.593	239.393	55.540701	47.338698
1477.522	246.4042	53.74922	46.489644
1479.451	252.0571	51.45936	45.385235
1481.38	256.9955	48.218886	43.724591
1483.309	259.9209	44.704695	41.859952
1485.238	261.1829	41.222812	39.993529
1487.166	260.6189	38.109232	38.178372
1489.095	259.0198	35.227468	36.396679
1491.024	254.8272	34.08019	35.445981
1492.953	250.7366	33.209345	34.950394
1494.882	245.9622	32.882448	34.817715
1496.811	238.8289	32.937359	34.875576
1498.74	231.0362	33.14584	34.909995
1500.669	224.9465	32.196022	34.242683
1502.598	220.6927	31.212323	33.523696
1504.526	218.6656	29.995348	32.76623

1506.455	218.8037	30.822995	33.222134
1508.384	222.6813	36.737982	36.516905
1510.313	226.3622	39.508784	38.184116
1512.242	231.5787	42.33186	39.89238
1514.171	237.2779	45.029935	41.531214
1516.1	243.1703	46.913924	42.66487
1518.029	250.1624	50.310046	44.500231
1519.957	254.6554	50.379029	44.711305
1521.886	259.9592	52.804518	45.938288
1523.815	264.6644	53.699953	46.454731
1525.744	267.792	54.310612	46.865184
1527.673	271.3762	55.143717	47.362419
1529.602	274.2881	55.551576	47.672882
1531.531	276.5962	54.88791	47.45795
1533.46	279.0318	55.670929	47.85423
1535.388	281.6479	56.116208	48.121247
1537.317	283.0473	55.326268	47.903335
1539.246	284.2313	54.220466	47.472724
1541.175	285.812	55.987502	48.324737
1543.104	286.9656	54.552079	47.613981
1545.033	287.9627	53.903682	47.361457
1546.962	288.9033	52.191657	46.647033
1548.891	289.5152	50.646567	46.04163
1550.82	290.1362	48.373359	44.985917
1552.748	290.7147	46.347504	44.052666
1554.677	291.09	43.212613	42.475648
1556.606	291.3642	40.665653	41.268046
1558.535	291.0653	37.332309	39.474835
1560.464	291.2232	33.59951	36.719816
1562.393	291.5858	31.243721	35.345349
1564.322	291.47	29.295395	34.075823
1566.251	291.0739	26.66028	32.227595
1568.179	290.6795	24.834682	30.935087
1570.108	289.7486	21.879056	28.525346
1572.037	289.0374	19.727384	26.670689
1573.966	288.4186	17.796322	25.08847
1575.895	287.2508	16.354151	23.607242
1577.824	285.7187	14.967246	22.041979
1579.753	284.6654	14.593972	21.606636
1581.682	282.9294	13.938205	20.992673
1583.61	280.8263	13.25345	20.259225
1585.539	278.5732	11.841194	18.798175
1587.468	276.4014	10.196436	16.823548

1589.397	274.0879	8.07024	14.114211
1591.326	271.8064	6.660887	11.888131
1593.255	269.2239	5.913808	10.743309
1595.184	266.3006	5.655305	10.356448
1597.113	262.7345	4.642265	9.034107
1599.042	258.8506	3.549933	7.137185
1600.97	254.2292	2.325913	4.842118
1602.899	249.4423	1.875592	3.581518
1604.828	245.4293	2.113225	4.030139
1606.757	244.2291	3.532205	6.476216
1608.686	246.0264	5.218046	9.23667
1610.615	250.2447	6.592464	11.087512
1612.544	253.6911	6.91447	11.488956
1614.473	255.0905	6.885071	11.404826
1616.401	253.3444	6.625673	11.064036
1618.33	249.179	6.893273	11.03734
1620.259	246.5492	6.846712	10.983991
1622.188	245.1122	6.982645	11.097414
1624.117	245.091	7.162272	11.187185
1626.046	245.6972	7.314124	11.213944
1627.975	244.8936	7.088252	10.884723
1629.904	242.0282	6.992453	10.594218
1631.832	237.9811	6.588993	10.121875
1633.761	233.8364	6.236278	9.693216
1635.69	227.8998	5.453128	8.789389
1637.619	223.1778	4.977628	7.951147
1639.548	222.4384	4.364901	7.23614
1641.477	223.0924	3.810563	6.455629
1643.406	224.5102	3.114695	5.551442
1645.335	225.7626	2.656673	4.811355
1647.264	226.8115	1.779947	3.41775
1649.192	227.2465	1.51484	2.649498
1651.121	227.3448	1.192742	2.2127
1653.05	227.4048	1.089288	1.676606
1654.979	229.4215	0.885884	1.189494
1656.908	231.437	0.984187	1.278339
1658.837	234.4736	0.898805	1.207723
1660.766	237.9584	0.902379	1.140329
1662.695	242.5714	0.819204	1.008096
1664.623	247.6243	0.945971	1.045363
1666.552	251.4298	0.975746	1.117498
1668.481	255.0488	1.172287	1.371952
1670.41	259.8632	1.747189	2.387186

1672.339	263.4556	2.573804	3.703022
1674.268	266.3647	3.374064	5.137182
1676.197	269.8312	5.433081	8.104992
1678.126	272.5471	6.921103	10.281312
1680.054	274.6003	8.704741	12.471465
1681.983	276.5953	10.507848	14.751614
1683.912	277.9725	12.882046	17.133986
1685.841	280.4925	17.739332	21.646749
1687.77	281.7316	19.351664	23.194999
1689.699	283.0295	22.2004	25.584634
1691.628	284.2587	25.292384	27.98773
1693.557	285.1972	27.106449	29.464445
1695.486	285.8581	29.668295	31.174829
1697.414	286.8822	33.850915	33.79928
1699.343	287.3106	35.319172	34.725588
1701.272	288.2621	40.083316	37.327165
1703.201	289.0529	41.425222	38.270223
1705.13	289.62	43.131969	39.185661
1707.059	290.1613	46.193119	40.69447
1708.988	290.7743	47.794807	41.620873
1710.917	291.1832	49.385429	42.406723
1712.845	291.691	50.663459	43.10431
1714.774	291.9993	51.983617	43.701269
1716.703	292.225	53.947204	44.563873
1718.632	292.4035	57.41016	45.939604
1720.561	293.066	58.571361	46.55913
1722.49	293.4348	59.018516	46.802616
1724.419	293.7521	60.509269	47.427199
1726.348	294.0641	61.517908	47.856901
1728.276	294.4107	62.224223	48.203349
1730.205	294.631	63.260331	48.609421
1732.134	294.9532	63.802441	48.847403
1734.063	294.9142	65.544437	49.338735
1735.992	295.3271	68.346451	50.425791
1737.921	295.6845	67.792863	50.343437
1739.85	295.9099	69.044595	50.760572
1741.779	296.0425	70.158443	51.183185
1743.708	296.3027	70.996006	51.500073
1745.636	296.5506	71.682389	51.746682
1747.565	296.8105	72.123413	51.901692
1749.494	296.8983	73.083375	52.135811
1751.423	297.0783	74.627909	52.60466
1753.352	297.3202	75.267341	52.835147

1755.281	297.6126	74.976358	52.813185
1757.21	297.6519	75.81027	53.001155
1759.139	297.8245	76.363608	53.22176
1761.067	297.8064	76.543993	53.251999
1762.996	297.7623	77.988708	53.628678
1764.925	297.7492	77.988065	53.663133
1766.854	297.7694	77.780755	53.615771
1768.783	297.6451	78.305416	53.719567
1770.712	297.6725	78.267129	53.699397
1772.641	297.5109	79.602907	53.97409
1774.57	297.6631	80.408942	54.256502
1776.498	297.8346	80.251517	54.255223
1778.427	298.1206	80.177766	54.293092
1780.356	298.1954	80.498383	54.346902
1782.285	298.3478	81.060438	54.515784
1784.214	298.5003	80.935027	54.46282
1786.143	298.6752	81.484614	54.634167
1788.072	298.8205	81.371161	54.659031
1790.001	298.9658	80.940293	54.588829
1791.93	298.9701	81.450657	54.685133
1793.858	299.1513	82.576628	55.024682
1795.787	299.3321	82.305835	54.998162
1797.716	299.5113	82.337188	55.025069
1799.645	299.5562	82.293354	54.968065
1801.574	299.6726	82.974864	55.107726
1803.503	299.79	83.34271	55.191324
1805.432	299.9583	83.348787	55.189882
1807.361	300.0993	83.229366	55.131539
1809.289	300.2309	83.30087	55.133534
1811.218	300.1924	83.655865	55.20405
1813.147	300.2222	84.195283	55.369605
1815.076	300.2323	84.027835	55.340303
1817.005	300.2352	84.194475	55.389069
1818.934	300.162	84.440511	55.456548
1820.863	300.1293	84.564761	55.494974
1822.792	300.0599	84.360577	55.415074
1824.72	300.0302	84.655884	55.437324
1826.649	300.0574	85.145866	55.581159
1828.578	300.1372	84.778109	55.479743
1830.507	300.0692	85.8852	55.694765
1832.436	300.3531	86.305649	55.919949
1834.365	300.5657	85.984056	55.857151
1836.294	300.7295	86.170739	55.896063

1838.223	300.8178	86.528539	55.971979
1840.152	300.9628	86.644215	56.01659
1842.08	301.0766	86.097697	55.853972
1844.009	301.0454	86.657626	55.962027
1845.938	300.9565	87.616394	56.19362
1847.867	300.9983	87.492607	56.181696
1849.796	300.9222	87.612814	56.23385
1851.725	300.8701	87.570482	56.247142
1853.654	300.7193	87.562599	56.217706
1855.583	300.67	87.571138	56.2071
1857.511	300.6124	87.512461	56.172417
1859.44	300.5727	87.578382	56.19504
1861.369	300.4888	87.672326	56.211409
1863.298	300.5486	87.6893	56.216607
1865.227	300.6415	87.330407	56.106102
1867.156	300.6797	86.977947	55.976498
1869.085	300.4935	87.77177	56.109805
1871.014	300.6049	88.465616	56.337156
1872.942	300.6578	88.130514	56.279393
1874.871	300.6081	88.141767	56.302094
1876.8	300.5099	88.262463	56.343055
1878.729	300.4262	88.520039	56.414191
1880.658	300.3576	88.795862	56.477415
1882.587	300.3502	89.053304	56.568051
1884.516	300.2661	89.336451	56.643029
1886.445	300.3041	89.565573	56.711057
1888.374	300.2449	89.504654	56.699536
1890.302	300.1152	90.292336	56.913726
1892.231	300.0884	90.395788	56.975405
1894.16	300.1115	90.27383	56.947569
1896.089	300.0161	90.606644	56.992305
1898.018	300.0368	90.649198	56.994721
1899.947	300.0225	90.540253	56.952161
1901.876	299.9644	90.528576	56.943591
1903.805	299.8306	90.419784	56.907035
1905.733	299.7184	90.223425	56.850538
1907.662	299.5291	89.901002	56.725608
1909.591	299.3025	89.916364	56.688996
1911.52	299.1188	89.857246	56.667754
1913.449	299.0481	89.502178	56.570742
1915.378	298.8773	89.011083	56.416567
1917.307	298.6509	88.775239	56.33519
1919.236	298.3449	89.131619	56.391001

1921.164	298.2113	88.643758	56.269782
1923.093	297.993	88.76816	56.256115
1925.022	297.8391	89.06269	56.343801
1926.951	297.681	88.826564	56.279503
1928.88	297.6058	88.839914	56.298529
1930.809	297.523	88.87123	56.30374
1932.738	297.4106	88.998105	56.329379
1934.667	297.2525	89.171649	56.365671
1936.596	297.2119	89.335109	56.414993
1938.524	297.0976	89.408909	56.433884
1940.453	296.9984	89.222461	56.388817
1942.382	296.8302	89.437576	56.381018
1944.311	296.7227	89.966984	56.537516
1946.24	296.6424	89.884432	56.545884
1948.169	296.566	89.958419	56.57004
1950.098	296.4146	89.886975	56.544063
1952.027	296.2996	89.89979	56.544024
1953.955	296.1577	89.827728	56.517091
1955.884	296.0052	89.923824	56.549299
1957.813	295.8284	89.884366	56.551839
1959.742	295.7181	89.860319	56.550739
1961.671	295.5722	89.857093	56.523944
1963.6	295.4263	89.874174	56.524224
1965.529	295.1998	89.704239	56.468417
1967.458	294.9565	90.045171	56.530293
1969.386	294.7396	90.284795	56.601012
1971.315	294.5952	90.238271	56.61658
1973.244	294.4554	90.295597	56.642336
1975.173	294.278	90.404738	56.670883
1977.102	294.077	90.486278	56.684313
1979.031	293.9792	90.565932	56.720118
1980.96	293.7624	90.644763	56.73598
1982.889	293.4695	90.765413	56.776728
1984.818	293.1783	90.829162	56.805198
1986.746	292.9044	90.887609	56.839462
1988.675	292.4554	91.061305	56.891172
1990.604	292.0017	91.080151	56.89372
1992.533	291.5414	91.475098	56.950837
1994.462	291.1738	91.919874	57.10946
1996.391	290.7502	91.918004	57.144965
1998.32	290.3745	92.146294	57.207207
2000.249	290	92.369684	57.272531
2002.177	289.6517	92.583056	57.331711

2004.106	289.3426	92.749831	57.368147
2006.035	289.172	92.937462	57.417755
2007.964	289.0279	93.043493	57.445895
2009.893	288.9486	93.230596	57.509785
2011.822	288.9303	93.338311	57.55839
2013.751	288.999	93.403617	57.591996
2015.68	289.0055	93.357569	57.572978
2017.608	288.9167	93.661144	57.636955
2019.537	288.7874	93.925193	57.716891
2021.466	288.5977	94.044915	57.776676
2023.395	288.3368	94.183755	57.824023
2025.324	288.1465	94.388139	57.891183
2027.253	287.9305	94.522862	57.925974
2029.182	287.7269	94.688901	57.964858
2031.111	287.507	94.829635	58.010861
2033.04	287.306	94.990723	58.068584
2034.968	287.1822	95.050711	58.088011
2036.897	287.1718	95.166709	58.150819
2038.826	287.1825	95.21554	58.171167
2040.755	287.3125	95.323552	58.183279
2042.684	287.575	95.526373	58.228411
2044.613	287.9083	95.646704	58.265912
2046.542	288.3125	95.700402	58.281969
2048.471	288.9309	95.815203	58.327907
2050.399	289.5688	95.878276	58.36276
2052.328	290.2188	95.941745	58.39033
2054.257	290.843	95.968332	58.399352
2056.186	291.4498	96.043993	58.429019
2058.115	291.9138	96.095465	58.444896
2060.044	292.3995	96.175621	58.467692
2061.973	292.8433	96.21097	58.474965
2063.902	293.1253	96.249226	58.491931
2065.83	293.3227	96.478826	58.553306
2067.759	293.648	96.631107	58.615658
2069.688	293.9316	96.614326	58.614072
2071.617	294.1831	96.684968	58.633648
2073.546	294.4159	96.693874	58.648922
2075.475	294.64	96.681575	58.650368
2077.404	294.7781	96.608612	58.617719
2079.333	294.9573	96.575332	58.597669
2081.262	295.1107	96.525507	58.5699
2083.19	295.3014	96.500207	58.563821
2085.119	295.4674	96.427113	58.528489

2087.048	295.6558	96.340376	58.500779
2088.977	295.8416	96.228842	58.472067
2090.906	296.088	96.213689	58.463601
2092.835	296.3803	96.148397	58.44827
2094.764	296.6364	96.106308	58.433488
2096.693	296.7718	96.098808	58.421742
2098.621	296.9087	96.142582	58.433809
2100.55	296.9895	96.194073	58.454651
2102.479	297.0563	96.309595	58.508606
2104.408	297.0532	96.430836	58.542325
2106.337	297.1564	96.594484	58.605906
2108.266	297.3086	96.787182	58.66059
2110.195	297.4105	97.030558	58.724143
2112.124	297.4369	97.244111	58.793766
2114.052	297.5109	97.508324	58.888494
2115.981	297.5855	97.806055	58.975763
2117.91	297.6252	98.098999	59.044096
2119.839	297.6388	98.371318	59.131031
2121.768	297.6574	98.635881	59.230449
2123.697	297.6669	98.84208	59.294097
2125.626	297.6832	99.061507	59.367875
2127.555	297.6442	99.214	59.411224
2129.484	297.6168	99.366135	59.465693
2131.412	297.6168	99.459295	59.492682
2133.341	297.5984	99.540652	59.51185
2135.27	297.505	99.572078	59.527472
2137.199	297.4636	99.630563	59.545896
2139.128	297.3909	99.611545	59.5351
2141.057	297.344	99.578214	59.521272
2142.986	297.3055	99.523109	59.505627
2144.915	297.2314	99.455478	59.493251
2146.843	297.1666	99.374632	59.483932
2148.772	297.1956	99.331691	59.477479
2150.701	297.1654	99.241651	59.453716
2152.63	297.1739	99.15205	59.433354
2154.559	297.1502	99.099142	59.418326
2156.488	297.1049	99.067959	59.413684
2158.417	297.0596	99.018628	59.398224
2160.346	297.0733	99.066033	59.39819
2162.274	297.1008	99.245069	59.441892
2164.203	297.0921	99.500735	59.515625
2166.132	297.1651	99.732544	59.591301
2168.061	297.1859	99.893842	59.635688

2169.99	297.1098	99.95462	59.641244
2171.919	297.1718	99.979223	59.64785
2173.848	297.1045	99.94566	59.640914
2175.777	297.0204	99.875136	59.612773
2177.706	296.8998	99.764881	59.582364
2179.634	296.7392	99.643176	59.531307
2181.563	296.5362	99.489635	59.481097
2183.492	296.3338	99.37487	59.454258
2185.421	296.0836	99.231631	59.383977
2187.35	295.8711	99.084568	59.327696
2189.279	295.684	98.897154	59.270038
2191.208	295.5204	98.675133	59.20712
2193.137	295.3402	98.415308	59.125035
2195.065	295.1823	98.223061	59.057744
2196.994	295.0355	98.091484	59.033768
2198.923	294.8582	98.081981	59.035951
2200.852	294.6564	98.174068	59.063864
2202.781	294.5133	98.353586	59.100176
2204.71	294.3749	98.626842	59.163936
2206.639	294.1406	98.988505	59.277926
2208.568	293.8336	99.348844	59.381667
2210.496	293.6347	99.706825	59.49348
2212.425	293.4641	100.01653	59.587569
2214.354	293.2454	100.268533	59.650067
2216.283	293.0341	100.423178	59.695536
2218.212	292.8296	100.535563	59.743648
2220.141	292.6273	100.618555	59.772113
2222.07	292.4404	100.671721	59.791431
2223.999	292.229	100.684452	59.792931
2225.928	292.0776	100.663999	59.790666
2227.856	291.9401	100.591763	59.775722
2229.785	291.8804	100.47802	59.742683
2231.714	291.8225	100.322366	59.689899
2233.643	291.8179	100.146626	59.638912
2235.572	291.8837	99.961252	59.582536
2237.501	292.0276	99.820092	59.539529
2239.43	292.148	99.738614	59.516555
2241.359	292.276	99.757126	59.533357
2243.287	292.4646	99.884404	59.563712
2245.216	292.6476	100.07971	59.62324
2247.145	292.8278	100.288562	59.684918
2249.074	293.0524	100.573939	59.775303
2251.003	293.2732	100.8404	59.869201

2252.932	293.5138	101.049862	59.926744
2254.861	293.7641	101.169171	59.94128
2256.79	293.9285	101.281575	59.987295
2258.718	294.0153	101.36663	60.033271
2260.647	294.1571	101.352318	60.017889
2262.576	294.2432	101.277493	59.977271
2264.505	294.3086	101.148214	59.930158
2266.434	294.3312	100.95397	59.870376
2268.363	294.3528	100.759611	59.793636
2270.292	294.3044	100.523604	59.715196
2272.221	294.29	100.288483	59.650087
2274.15	294.2952	100.0502	59.559356
2276.078	294.3312	99.841434	59.477003
2278.007	294.38	99.59871	59.406495
2279.936	294.4683	99.353377	59.334963
2281.865	294.4874	99.142776	59.286127
2283.794	294.496	99.032255	59.271136
2285.723	294.4664	99.093651	59.261153
2287.652	294.4236	99.295737	59.288001
2289.581	294.329	99.563125	59.367206
2291.509	294.2607	99.920963	59.488996
2293.438	294.2084	100.317631	59.573102
2295.367	294.063	100.659701	59.673799
2297.296	293.8111	100.967076	59.758329
2299.225	293.5815	101.274076	59.823667
2301.154	293.4683	101.532812	59.883614
2303.083	293.4213	101.67262	59.903692
2305.012	293.3484	101.868932	59.975284
2306.94	293.395	102.158447	60.071495
2308.869	293.5359	102.345352	60.086894
2310.798	293.5674	102.545353	60.139557
2312.727	293.4943	102.700202	60.190724
2314.656	293.5503	102.756295	60.183778
2316.585	293.6773	102.758287	60.148466
2318.514	293.7652	102.847598	60.101342
2320.443	293.7302	103.099509	60.09028
2322.372	293.6263	103.519109	60.198163
2324.3	293.5288	103.777737	60.259921
2326.229	293.4535	103.736701	60.273328
2328.158	293.3208	103.76381	60.233861
2330.087	293.1533	103.982999	60.269758
2332.016	292.9047	104.465833	60.343783
2333.945	292.7633	104.519697	60.213051

2335.874	292.7305	104.725455	60.354143
2337.803	292.7264	105.169573	60.547774
2339.731	292.6747	105.258733	60.487623
2341.66	292.549	105.521489	60.561816
2343.589	292.2505	105.997815	60.712782
2345.518	291.8527	106.313355	60.755804
2347.447	291.6941	105.75819	60.737777
2349.376	291.8173	104.611055	60.577972
2351.305	291.8582	104.534843	60.520351
2353.234	291.9395	105.571236	60.663238
2355.162	291.8983	106.587499	60.845329
2357.091	291.9843	107.654314	61.135037
2359.02	291.8896	108.498962	61.332571
2360.949	292.0657	109.054775	61.437001
2362.878	292.4766	109.007599	61.417181
2364.807	292.6905	108.710219	61.408164
2366.736	292.387	108.135662	61.331892
2368.665	292.2412	107.420647	61.081238
2370.594	292.0468	106.848355	60.932502
2372.522	291.7187	106.522181	61.026518
2374.451	291.4071	106.0295	61.051785
2376.38	291.0975	105.464147	60.93629
2378.309	290.7026	105.102598	60.933498
2380.238	290.4522	104.701927	60.916374
2382.167	290.2437	104.256119	60.865824
2384.096	289.9365	103.849739	60.836673
2386.025	289.6242	103.552498	60.791647
2387.953	289.3713	103.430415	60.765492
2389.882	289.0722	103.421907	60.760843
2391.811	288.7988	103.510317	60.778868
2393.74	288.5263	103.697448	60.835746
2395.669	288.2092	103.940219	60.937679
2397.598	287.9126	104.176275	61.035264
2399.527	287.6736	104.354443	61.104989
2401.456	287.4188	104.493912	61.160335
2403.384	287.1952	104.546976	61.180449
2405.313	286.8476	104.52411	61.149553
2407.242	286.3857	104.441489	61.111077
2409.171	285.8277	104.277858	61.075366
2411.1	285.4392	104.020033	61.01077
2413.029	285.2663	103.711472	60.941219
2414.958	285.2079	103.355975	60.847067
2416.887	285.1865	102.9604	60.732553

2418.816	285.1295	102.496322	60.608357
2420.744	285.0429	101.983564	60.43527
2422.673	284.9482	101.468382	60.259393
2424.602	284.7388	100.941362	60.074734
2426.531	284.4907	100.438781	59.911204
2428.46	284.25	99.954256	59.785798
2430.389	284.0148	99.456735	59.633811
2432.318	283.7	99.026304	59.491664
2434.247	283.4157	98.683263	59.398916
2436.175	283.1837	98.376588	59.315528
2438.104	282.9848	98.132799	59.244742
2440.033	282.839	97.973495	59.179041
2441.962	282.7359	97.896914	59.153103
2443.891	282.5985	97.869619	59.141211
2445.82	282.4194	97.927274	59.147678
2447.749	282.2636	98.049394	59.196122
2449.678	282.0617	98.134461	59.240639
2451.606	281.8336	98.196142	59.292469
2453.535	281.6725	98.183174	59.299664
2455.464	281.5704	98.066113	59.252655
2457.393	281.4106	97.858594	59.186834
2459.322	281.2455	97.580445	59.106751
2461.251	281.1667	97.243706	59.002538
2463.18	281.0558	96.881656	58.905372
2465.109	280.8957	96.523741	58.808296
2467.038	280.6644	96.188077	58.69767
2468.966	280.3559	95.874412	58.603763
2470.895	280.0171	95.637387	58.538785
2472.824	279.7445	95.423046	58.463007
2474.753	279.4165	95.264278	58.421038
2476.682	279.1638	95.171742	58.41514
2478.611	279.1139	95.13024	58.405954
2480.54	279.1589	95.067129	58.38263
2482.469	279.148	95.040721	58.398442
2484.397	279.1236	95.06009	58.436452
2486.326	279.1132	95.095235	58.47107
2488.255	279.0465	95.07824	58.462358
2490.184	278.9725	95.031506	58.434714
2492.113	278.9944	94.942859	58.435467
2494.042	278.9758	94.785231	58.425809
2495.971	278.8154	94.514564	58.343289
2497.9	278.6391	94.20182	58.256365
2499.828	278.4987	93.83063	58.159395

2501.757	278.3381	93.385899	58.024306
2503.686	278.1323	92.934596	57.904934
2505.615	277.827	92.514855	57.810569
2507.544	277.4603	92.170708	57.702627
2509.473	277.065	91.896936	57.62035
2511.402	276.5892	91.702138	57.557342
2513.331	275.9265	91.622315	57.513067
2515.26	275.2636	91.622758	57.51409
2517.188	274.6278	91.655689	57.534707
2519.117	273.8783	91.77954	57.575885
2521.046	273.0648	91.986261	57.621243
2522.975	272.3104	92.210726	57.699839
2524.904	271.7659	92.474971	57.824728
2526.833	271.3792	92.755895	57.918722
2528.762	271.0814	93.087411	57.987679
2530.691	270.8373	93.422223	58.097766
2532.619	270.6969	93.686314	58.198784
2534.548	270.7493	93.878821	58.238521
2536.477	270.8757	94.065357	58.296611
2538.406	270.9134	94.217372	58.394394
2540.335	270.9041	94.274519	58.412963
2542.264	270.9624	94.241037	58.392154
2544.193	270.9081	94.183665	58.389466
2546.122	270.7072	94.050062	58.353395
2548.05	270.4522	93.876116	58.313759
2549.979	270.2247	93.66047	58.262787
2551.908	269.9157	93.391437	58.195209
2553.837	269.5359	93.089212	58.120248
2555.766	269.166	92.81822	58.057411
2557.695	268.9302	92.570671	57.98058
2559.624	268.7359	92.351876	57.93244
2561.553	268.6434	92.086949	57.869944
2563.482	268.7361	91.843788	57.793462
2565.41	268.9127	91.584025	57.702747
2567.339	269.1511	91.285588	57.600254
2569.268	269.4802	90.9447	57.495007
2571.197	269.86	90.546549	57.385629
2573.126	270.3343	90.063602	57.227815
2575.055	270.7603	89.544006	57.064944
2576.984	271.1194	89.000113	56.899743
2578.913	271.3282	88.413208	56.717594
2580.841	271.2707	87.759661	56.502907
2582.77	270.9973	87.083154	56.253017

2584.699	270.5018	86.388182	56.017378
2586.628	269.8613	85.712961	55.796214
2588.557	269.2829	85.047872	55.569434
2590.486	268.8203	84.415977	55.351222
2592.415	268.4173	83.872827	55.158395
2594.344	268.0446	83.47508	55.007516
2596.272	267.784	83.186785	54.919835
2598.201	267.662	83.01489	54.867111
2600.13	267.5628	82.891897	54.817918
2602.059	267.5802	82.848536	54.792257
2603.988	267.8076	82.836401	54.797434
2605.917	268.051	82.887782	54.815351
2607.846	268.2464	82.949143	54.812488
2609.775	268.3358	82.932564	54.812792
2611.704	268.392	82.867789	54.827492
2613.632	268.4862	82.789891	54.810455
2615.561	268.537	82.689276	54.778321
2617.49	268.471	82.617335	54.785753
2619.419	268.3792	82.562106	54.757843
2621.348	268.3326	82.54641	54.726847
2623.277	268.3189	82.609458	54.735262
2625.206	268.3509	82.684142	54.775304
2627.135	268.3927	82.774301	54.832247
2629.063	268.4325	82.917745	54.897449
2630.992	268.4553	83.11661	54.96925
2632.921	268.4643	83.332725	55.039027
2634.85	268.3571	83.524563	55.111647
2636.779	268.1015	83.699941	55.1961
2638.708	267.7552	83.780151	55.232508
2640.637	267.3223	83.842005	55.276967
2642.566	266.8506	83.82224	55.296015
2644.494	266.4737	83.76528	55.305172
2646.423	266.1998	83.693129	55.318854
2648.352	266.1065	83.594307	55.31074
2650.281	266.1959	83.409828	55.271981
2652.21	266.4391	83.202913	55.207538
2654.139	266.7933	82.973686	55.133879
2656.068	267.2129	82.736238	55.063169
2657.997	267.6751	82.441384	54.991181
2659.926	268.0739	82.179717	54.909057
2661.854	268.3796	81.883239	54.798667
2663.783	268.5385	81.568544	54.703471
2665.712	268.5094	81.238057	54.597113

2667.641	268.3355	80.911925	54.509752
2669.57	268.0632	80.536212	54.401592
2671.499	267.6539	80.164661	54.283824
2673.428	267.2925	79.816528	54.173924
2675.357	267.0269	79.511258	54.077347
2677.285	266.769	79.173714	53.9385
2679.214	266.4591	78.8665	53.823644
2681.143	266.2182	78.569496	53.747476
2683.072	266.0226	78.377337	53.702794
2685.001	265.7657	78.259658	53.668075
2686.93	265.5577	78.142585	53.655648
2688.859	265.4103	78.06465	53.633952
2690.788	265.3053	78.037227	53.62483
2692.716	265.3586	77.946864	53.591855
2694.645	265.5112	77.8522	53.55894
2696.574	265.7846	77.649377	53.51128
2698.503	266.0981	77.410016	53.441911
2700.432	266.3133	77.126276	53.345028
2702.361	266.4127	76.802819	53.252528
2704.29	266.3125	76.50524	53.166609
2706.219	266.109	76.257088	53.106111
2708.148	265.8641	76.019343	53.018687
2710.076	265.5209	75.807138	52.94776
2712.005	265.1586	75.571096	52.855449
2713.934	264.8001	75.390792	52.787123
2715.863	264.4609	75.235573	52.745471
2717.792	264.2112	75.068728	52.704414
2719.721	264.06	74.843294	52.647785
2721.65	263.8565	74.554873	52.525823
2723.579	263.5271	74.203254	52.387678
2725.507	263.2394	73.840083	52.275694
2727.436	262.9085	73.404224	52.141926
2729.365	262.4242	72.869068	51.980095
2731.294	261.9488	72.31522	51.790861
2733.223	261.5102	71.698264	51.554493
2735.152	261.0747	70.990762	51.270617
2737.081	260.6713	70.326757	51.005721
2739.01	260.3371	69.790005	50.805997
2740.938	260.0971	69.344986	50.640122
2742.867	259.8758	68.929194	50.463775
2744.796	259.6298	68.549668	50.301268
2746.725	259.3843	68.228792	50.190633
2748.654	259.2592	67.989898	50.111985

2750.583	259.1398	67.779473	50.025484
2752.512	258.9178	67.598327	49.962308
2754.441	258.7396	67.413043	49.894934
2756.37	258.6376	67.193735	49.8308
2758.298	258.6449	66.940269	49.761945
2760.227	258.7543	66.738612	49.687706
2762.156	258.8906	66.542114	49.641539
2764.085	259.1373	66.350452	49.592595
2766.014	259.3967	66.184216	49.533384
2767.943	259.5481	66.074471	49.49294
2769.872	259.6511	65.998278	49.469613
2771.801	259.7295	65.961302	49.473275
2773.729	259.7006	65.882639	49.467333
2775.658	259.5539	65.785536	49.427191
2777.587	259.3191	65.614056	49.368803
2779.516	259.0199	65.340215	49.343396
2781.445	258.7489	64.987207	49.22845
2783.374	258.5251	64.584722	49.053072
2785.303	258.232	64.094451	48.856012
2787.232	258.0283	63.513309	48.63332
2789.16	258.0073	62.907236	48.39483
2791.089	257.9661	62.338712	48.173462
2793.018	257.8551	61.805124	47.960332
2794.947	257.7752	61.28085	47.735629
2796.876	257.755	60.766577	47.546434
2798.805	257.8271	60.281986	47.38251
2800.734	258.0224	59.87654	47.235966
2802.663	258.2655	59.561992	47.126248
2804.592	258.5223	59.292313	47.002232
2806.52	258.8638	59.09133	46.932518
2808.449	259.1151	58.884894	46.870947
2810.378	259.176	58.653898	46.78081
2812.307	259.1793	58.418049	46.696026
2814.236	259.0247	58.134264	46.620827
2816.165	258.5976	57.775108	46.47487
2818.094	257.9973	57.347296	46.300658
2820.023	257.4596	56.833139	46.104595
2821.951	256.8741	56.239662	45.850911
2823.88	256.203	55.571497	45.559766
2825.809	255.6347	54.877349	45.284032
2827.738	255.1842	54.18694	44.959665
2829.667	254.7675	53.423284	44.592091
2831.596	254.4814	52.585661	44.213343

2833.525	254.3588	51.763921	43.842266
2835.454	254.3821	50.91279	43.442728
2837.382	254.4077	50.033077	43.008607
2839.311	254.3548	49.058887	42.53285
2841.24	254.1197	48.033604	42.086332
2843.169	253.877	47.090511	41.626547
2845.098	253.6464	46.266108	41.181972
2847.027	253.5008	45.522264	40.779777
2848.956	253.2942	44.769357	40.406507
2850.885	252.8696	44.100248	40.057886
2852.814	252.4448	43.565821	39.741911
2854.742	252.0865	43.063687	39.446514
2856.671	251.8337	42.55008	39.169633
2858.6	251.5879	42.010704	38.855616
2860.529	251.2749	41.335466	38.448823
2862.458	250.9305	40.623997	38.042059
2864.387	250.619	39.92714	37.645071
2866.316	250.2583	39.176579	37.181977
2868.245	249.8512	38.435132	36.686077
2870.173	249.5779	37.77951	36.234996
2872.102	249.4304	37.295522	35.885617
2874.031	249.1885	37.030151	35.696121
2875.96	248.7823	36.980928	35.654914
2877.889	248.3772	37.024833	35.669421
2879.818	248.0886	36.968561	35.647168
2881.747	247.9902	36.780725	35.530596
2883.676	247.9392	36.452923	35.337521
2885.604	247.8518	36.025458	35.085081
2887.533	247.6794	35.570216	34.811721
2889.462	247.3223	35.140462	34.513627
2891.391	246.8101	34.726991	34.261387
2893.32	246.3449	34.339282	34.025924
2895.249	245.8701	33.918036	33.745916
2897.178	245.2878	33.452492	33.443744
2899.107	244.7524	32.981724	33.157128
2901.036	244.4865	32.568771	32.886684
2902.964	244.4723	32.113761	32.588277
2904.893	244.6079	31.547986	32.248454
2906.822	244.6865	30.934222	31.858944
2908.751	244.8393	30.350057	31.458282
2910.68	245.0137	29.800796	31.05995
2912.609	245.0251	29.252466	30.653936
2914.538	244.9027	28.64711	30.257177

2916.467	244.6566	28.087119	29.870465
2918.395	244.3017	27.465492	29.439516
2920.324	243.8182	26.813515	28.990603
2922.253	243.1942	26.121019	28.501057
2924.182	242.6637	25.368827	27.940295
2926.111	242.1429	24.598631	27.365854
2928.04	241.6149	23.891893	26.804479
2929.969	241.1044	23.235055	26.285487
2931.898	240.5112	22.774438	25.916646
2933.826	239.8654	22.527659	25.739927
2935.755	239.2234	22.303067	25.578675
2937.684	238.583	21.988195	25.333787
2939.613	237.9504	21.6412	25.04677
2941.542	237.4263	21.286912	24.743444
2943.471	236.9278	20.946221	24.434218
2945.4	236.4392	20.454661	24.038026
2947.329	236.023	19.704346	23.457063
2949.258	235.6469	18.768133	22.646821
2951.186	235.2063	18.074882	21.930854
2953.115	234.7205	17.85261	21.665561
2955.044	234.3093	18.116324	21.892913
2956.973	234.0241	18.475515	22.193439
2958.902	233.8661	18.679625	22.345824
2960.831	233.7382	18.733997	22.321193
2962.76	233.5831	18.717612	22.241142
2964.689	233.3865	18.72806	22.245574
2966.617	233.1684	18.8649	22.401774
2968.546	232.848	18.981117	22.510717
2970.475	232.4634	19.072541	22.524302
2972.404	232.0264	19.038901	22.484784
2974.333	231.5787	18.888007	22.346742
2976.262	231.0187	18.693813	22.162351
2978.191	230.5691	18.543438	21.978932
2980.12	230.1078	18.43418	21.810327
2982.048	229.5374	18.478801	21.848169
2983.977	228.9801	18.774999	22.087124
2985.906	228.4083	19.175758	22.434787
2987.835	227.816	19.44496	22.697196
2989.764	227.3219	19.548419	22.80802
2991.693	226.787	19.43271	22.748708
2993.622	226.1953	19.165256	22.575783
2995.551	225.5496	18.842866	22.340506
2997.48	224.9547	18.480173	22.028154

2999.408	224.2228	18.053786	21.654738
3001.337	223.4341	17.672559	21.334883
3003.266	222.6688	17.329098	21.064369
3005.195	221.9682	17.098715	20.833214
3007.124	221.4547	16.907236	20.640144
3009.053	221.1569	16.789108	20.561447
3010.982	220.7701	16.741774	20.521995
3012.911	220.2447	16.646109	20.461157
3014.839	219.6205	16.470567	20.325077
3016.768	218.9549	16.252753	20.137658
3018.697	218.3702	15.962294	19.899907
3020.626	217.8783	15.60115	19.605662
3022.555	217.3573	15.235904	19.291665
3024.484	216.8189	14.796059	18.935427
3026.413	216.3334	14.284582	18.532571
3028.342	216.049	13.872128	18.139698
3030.27	215.8805	13.444773	17.755085
3032.199	215.8304	13.008035	17.346724
3034.128	215.8315	12.489363	16.81056
3036.057	215.8048	11.901721	16.240507
3037.986	215.9292	11.400838	15.745158
3039.915	216.3931	11.03065	15.317555
3041.844	216.9756	10.678745	14.932852
3043.773	217.511	10.382951	14.626118
3045.702	218.0246	10.091477	14.378134
3047.63	218.6423	9.892893	14.164585
3049.559	219.4102	9.718829	13.942387
3051.488	220.0793	9.49204	13.663963
3053.417	220.7358	9.238914	13.347797
3055.346	221.5016	8.968151	13.028992
3057.275	222.1903	8.632221	12.683705
3059.204	222.7469	8.327832	12.359281
3061.133	223.3593	8.104851	12.048054
3063.061	224.0848	7.919309	11.776705
3064.99	224.8098	7.699714	11.491666
3066.919	225.484	7.504784	11.20525
3068.848	225.8964	7.239006	10.894547
3070.777	226.2726	6.941377	10.601641
3072.706	226.7702	6.653656	10.26993
3074.635	227.358	6.464604	9.974936
3076.564	228.0212	6.296446	9.690354
3078.492	228.5921	6.055512	9.331548
3080.421	229.0062	5.778234	8.937753

3082.35	229.3664	5.545031	8.615013
3084.279	229.6865	5.261533	8.25531
3086.208	229.9568	4.990205	7.909893
3088.137	230.2031	4.773165	7.586447
3090.066	230.4439	4.586039	7.21329
3091.995	230.6192	4.274713	6.86585
3093.924	230.8916	4.028036	6.541099
3095.852	231.2856	3.895621	6.288862
3097.781	231.7919	3.82823	6.128274
3099.71	232.2449	3.661219	5.856149
3101.639	232.5264	3.446335	5.510453
3103.568	232.7474	3.209058	5.226137
3105.497	233.0514	3.121666	4.997091
3107.426	233.5194	3.041231	4.748103
3109.355	233.8065	2.860612	4.526835
3111.283	233.9372	2.691824	4.338354
3113.212	234.2908	2.64327	4.139047
3115.141	234.6953	2.562579	3.927015
3117.07	234.9917	2.483494	3.747895
3118.999	235.2114	2.366257	3.588046
3120.928	235.2734	2.264705	3.451247
3122.857	235.1646	2.178591	3.298772
3124.786	235.0897	2.200506	3.241631
3126.714	235.2237	2.211956	3.314593
3128.643	235.4751	2.298668	3.46225
3130.572	235.5002	2.326029	3.509422
3132.501	235.4078	2.358663	3.564605
3134.43	235.4732	2.450615	3.732525
3136.359	235.7089	2.656605	3.978305
3138.288	235.9516	2.826587	4.223211
3140.217	235.9436	2.997973	4.522279
3142.146	235.8409	3.158878	4.818413
3144.074	236.0256	3.399621	5.170382
3146.003	236.2269	3.616327	5.521876
3147.932	236.354	3.856343	5.88143
3149.861	236.6732	4.111137	6.218158
3151.79	237.1442	4.397928	6.551838
3153.719	237.2622	4.640923	6.85877
3155.648	237.2533	4.872186	7.156124
3157.577	237.4189	5.057419	7.45551
3159.505	237.7121	5.228025	7.774746
3161.434	237.9607	5.416968	8.000508
3163.363	238.2017	5.608607	8.214965

3165.292	238.49	5.768899	8.40192
3167.221	238.8537	5.933884	8.532628
3169.15	239.2333	6.051694	8.62716
3171.079	239.5747	6.177079	8.759851
3173.008	239.8209	6.218044	8.915711
3174.936	240.1219	6.266094	8.997
3176.865	240.4838	6.327652	9.039204
3178.794	240.7831	6.41962	9.090613
3180.723	241.1299	6.390136	9.056784
3182.652	241.5632	6.304898	8.960197
3184.581	241.8478	6.19205	8.804822
3186.51	242.0504	6.12275	8.659984
3188.439	242.2762	6.008647	8.445824
3190.368	242.4817	5.844823	8.228521
3192.296	242.6503	5.585446	7.952844
3194.225	242.7767	5.405663	7.694435
3196.154	242.8942	5.194773	7.451351
3198.083	243.0027	5.054882	7.26669
3200.012	243.0695	4.961562	7.137461
3201.941	243.1903	4.960283	7.092482
3203.87	243.2304	4.971723	7.061699
3205.799	243.2877	5.048244	7.128328
3207.727	243.4226	5.124399	7.25709
3209.656	243.4436	5.318377	7.449342
3211.585	243.3925	5.524186	7.737061
3213.514	243.5084	5.753014	8.098957
3215.443	243.7018	5.980601	8.452479
3217.372	243.8536	6.218058	8.809493
3219.301	243.8986	6.465533	9.127139
3221.23	243.8663	6.839605	9.503036
3223.158	243.9082	7.158243	9.829034
3225.087	244.2271	7.42875	10.149587
3227.016	244.4919	7.633768	10.424984
3228.945	244.696	7.889495	10.679662
3230.874	244.9805	8.074247	10.867806
3232.803	245.2773	8.273669	11.075821
3234.732	245.5412	8.454982	11.355694
3236.661	245.9243	8.712971	11.661647
3238.59	246.3701	9.056458	12.001831
3240.518	246.7914	9.474119	12.490461
3242.447	247.0604	9.929503	13.004855
3244.376	247.3051	10.528258	13.613776
3246.305	247.5913	11.236039	14.350192

3248.234	247.8554	12.069354	15.151513
3250.163	248.2113	12.95706	16.041699
3252.092	248.5139	13.930447	16.976094
3254.021	248.7262	14.991547	17.965782
3255.949	249.0366	16.164829	19.033151
3257.878	249.5485	17.425555	20.057353
3259.807	250.1217	18.733643	21.034217
3261.736	250.5987	20.021651	22.051164
3263.665	251.0891	21.327642	23.084865
3265.594	251.6732	22.61795	24.103937
3267.523	252.1378	24.035784	25.020214
3269.452	252.5053	25.441023	25.883139
3271.38	252.9052	26.821589	26.804115
3273.309	253.2625	28.259447	27.732327
3275.238	253.5363	29.737439	28.629915
3277.167	253.8141	31.29957	29.561609
3279.096	253.9962	32.877154	30.4661
3281.025	254.2363	34.428142	31.318029
3282.954	254.3645	35.965211	32.149341
3284.883	254.3152	37.518507	32.93309
3286.812	254.2803	39.130797	33.729711
3288.74	254.3529	40.676119	34.550266
3290.669	254.4213	42.144039	35.316449
3292.598	254.3505	43.721711	36.033972
3294.527	254.2016	45.322431	36.691139
3296.456	254.256	46.72642	37.308397
3298.385	254.4046	48.130199	37.964615
3300.314	254.4142	49.516526	38.517506
3302.243	254.3119	50.757793	38.981417
3304.171	254.2586	51.869655	39.433254
3306.1	254.2687	52.924938	39.806146
3308.029	254.2965	54.03868	40.224496
3309.958	254.422	55.243419	40.698775
3311.887	254.6093	56.342337	41.165076
3313.816	254.5232	57.460489	41.577363
3315.745	254.4174	58.52423	41.955573
3317.674	254.4256	59.543907	42.289361
3319.602	254.4897	60.571795	42.58427
3321.531	254.4226	61.440101	42.847792
3323.46	254.2716	62.21175	43.101083
3325.389	254.1308	63.01455	43.339678
3327.318	254.1448	63.931075	43.63001
3329.247	254.1051	64.766326	43.865525

3331.176	253.9295	65.369212	44.023445
3333.105	253.6294	65.909431	44.120378
3335.034	253.3582	66.419072	44.176666
3336.962	253.0665	66.935297	44.223087
3338.891	252.7168	67.460937	44.329345
3340.82	252.4276	67.850938	44.364114
3342.749	252.1413	68.200821	44.425959
3344.678	251.7625	68.437547	44.43541
3346.607	251.3214	68.679552	44.371488
3348.536	250.7107	68.845835	44.350559
3350.465	250.0125	69.005303	44.34245
3352.393	249.2673	69.221962	44.222193
3354.322	248.5366	69.42397	44.130059
3356.251	247.6791	69.532219	44.033715
3358.18	246.7119	69.575921	43.935589
3360.109	245.7532	69.486682	43.791814
3362.038	244.6455	69.488245	43.668273
3363.967	243.5552	69.399853	43.431888
3365.896	242.5589	69.294442	43.25108
3367.824	241.671	69.191114	43.120101
3369.753	240.7582	69.105947	42.985805
3371.682	239.7523	69.089699	42.881639
3373.611	238.9591	69.137265	42.800496
3375.54	238.4873	69.06533	42.637223
3377.469	238.1856	68.947855	42.496686
3379.398	238.1097	68.860652	42.453741
3381.327	238.0521	68.824969	42.391781
3383.256	238.151	68.757617	42.148681
3385.184	238.4814	68.704242	41.962195
3387.113	238.9589	68.61784	41.824445
3389.042	239.6833	68.449035	41.721621
3390.971	240.4577	68.212011	41.574394
3392.9	241.0791	68.208099	41.480863
3394.829	241.6017	68.145534	41.387762
3396.758	242.1188	68.079317	41.286459
3398.687	242.8528	68.209508	41.167972
3400.615	243.5489	68.12863	40.999043
3402.544	243.9822	68.063852	40.91318
3404.473	244.2193	67.990447	40.841906
3406.402	244.6434	67.932756	40.766098
3408.331	245.1497	67.898554	40.775113
3410.26	245.4914	67.912352	40.715512
3412.189	245.8971	67.939982	40.663315

3414.118	246.2322	67.880121	40.587686
3416.046	246.4599	67.784186	40.505913
3417.975	246.7476	67.73162	40.430281
3419.904	247.0658	67.787922	40.396101
3421.833	247.3824	68.059568	40.400271
3423.762	247.7377	68.113125	40.428708
3425.691	248.1092	68.044161	40.313467
3427.62	248.5316	68.105964	40.227972
3429.549	249.0066	68.181969	40.243464
3431.478	249.451	68.275293	40.301767
3433.406	249.928	68.43797	40.38477
3435.335	250.2978	68.570028	40.416863
3437.264	250.4854	68.764186	40.395653
3439.193	250.6635	68.836229	40.395075
3441.122	251.0331	68.827786	40.473286
3443.051	251.5162	69.095456	40.543342
3444.98	252.0082	69.096024	40.533479
3446.909	252.4925	69.272789	40.583328
3448.837	252.9808	69.922347	40.715318
3450.766	253.4557	70.04603	40.79944
3452.695	254.0379	70.113402	40.833202
3454.624	254.5377	70.215436	40.903334
3456.553	254.9593	70.529592	41.059148
3458.482	255.5271	70.832543	41.244576
3460.411	256.011	71.065298	41.330712
3462.34	256.3603	71.475093	41.448885
3464.268	256.9742	71.89162	41.669267
3466.197	257.6879	72.163803	41.793025
3468.126	258.3199	72.521057	41.860867
3470.055	258.6593	72.658822	41.978251
3471.984	258.9268	72.961453	42.144334
3473.913	259.2898	73.367102	42.328092
3475.842	259.6984	73.920129	42.570917
3477.771	260.2367	74.190889	42.823974
3479.7	260.75	74.254721	42.932291
3481.628	261.0786	74.715652	43.045846
3483.557	261.4451	75.497355	43.262204
3485.486	261.9553	75.681199	43.46411
3487.415	262.3818	75.982196	43.672018
3489.344	262.7629	76.676476	43.930574
3491.273	263.2834	77.096957	44.076575
3493.202	263.6826	77.364447	44.254003
3495.131	264.0867	77.749139	44.528282

3497.059	264.5561	78.39269	44.793354
3498.988	264.9904	78.953386	44.953415
3500.917	265.3722	79.070334	45.197345
3502.846	265.6259	79.66053	45.48663
3504.775	265.8901	80.638013	45.745615
3506.704	266.3894	80.809724	45.960468
3508.633	266.7956	80.949588	46.197308
3510.562	267.192	82.109882	46.409258
3512.49	267.6283	82.714138	46.592114
3514.419	267.9572	83.009922	46.868064
3516.348	268.2524	83.388176	47.178556
3518.277	268.5892	83.952478	47.474259
3520.206	268.8676	84.494376	47.83792
3522.135	269.245	84.851245	48.071597
3524.064	269.6516	85.671067	48.301698
3525.993	269.7909	86.20491	48.465673
3527.922	269.8946	86.971963	48.766934
3529.85	270.2684	88.104545	49.13853
3531.779	270.7203	88.746011	49.488852
3533.708	271.1475	89.142312	49.798897
3535.637	271.4725	89.561288	50.102061
3537.566	271.7693	90.634193	50.50679
3539.495	272.0928	91.284941	50.825182
3541.424	272.408	91.59699	51.10876
3543.353	272.8412	91.774987	51.486916
3545.281	273.0443	92.765601	51.850569
3547.21	273.2841	94.210057	52.057358
3549.139	273.5974	94.901818	52.429918
3551.068	273.7905	94.801492	52.799785
3552.997	273.981	96.108511	53.118285
3554.926	274.3638	97.174761	53.455978
3556.855	274.6428	97.525719	53.768268
3558.784	274.999	98.087693	54.132978
3560.712	275.3107	98.967905	54.649498
3562.641	275.5964	99.325317	54.95724
3564.57	275.9026	98.87363	55.148636
3566.499	275.942	99.952219	55.519597
3568.428	276.1113	104.150934	56.280315
3570.357	276.6155	104.383891	56.634062
3572.286	276.9748	104.128837	56.970495
3574.215	277.2664	104.575879	57.323525
3576.144	277.5636	105.571773	57.688122
3578.072	277.9205	106.490411	58.169123

3580.001	278.344	107.628064	58.639444
3581.93	278.619	108.500569	59.024366
3583.859	278.8368	108.692616	59.432462
3585.788	279.1004	108.222577	59.726349
3587.717	279.1911	110.862541	59.996597
3589.646	279.5106	113.872763	60.604406
3591.575	279.9836	113.108644	61.127674
3593.503	280.2909	113.115206	61.528025
3595.432	280.5287	114.972717	62.010911
3597.361	280.7758	116.035648	62.41133
3599.29	281.0185	116.422703	62.779881
3601.219	281.2854	118.136281	63.262056
3603.148	281.6759	119.352713	63.805935
3605.077	281.9941	118.798154	64.18196
3607.006	282.1233	118.716475	64.393044
3608.934	282.3126	121.339163	64.929062
3610.863	282.6725	122.051828	65.372975
3612.792	283.0026	122.122524	65.567271
3614.721	282.9874	124.528992	66.127522
3616.65	282.9143	123.860155	66.574889
3618.579	282.7777	124.656699	67.19676
3620.508	283.0823	128.691254	67.863586
3622.437	283.6646	129.144346	68.020401
3624.366	284.0783	128.057216	68.278569
3626.294	284.2589	126.890073	68.573826
3628.223	284.1382	126.803856	68.808208
3630.152	284.1897	134.169513	69.366317
3632.081	284.724	132.912589	69.67903
3634.01	285.0056	132.593173	69.898785
3635.939	285.282	133.292963	70.249776
3637.868	285.405	133.347976	70.514882
3639.797	285.5198	133.92233	70.722687
3641.725	285.7216	134.128826	71.068418
3643.654	285.8371	134.465562	71.345999
3645.583	285.775	132.58899	71.44058
3647.512	285.5577	132.004027	71.399252
3649.441	285.2264	136.710663	71.679894
3651.37	285.629	141.90465	72.228007
3653.299	286.2316	139.384488	72.602358
3655.228	286.3808	136.987465	72.741363
3657.156	286.4787	140.144042	73.044994
3659.085	286.8533	140.417941	73.209715
3661.014	287.0543	140.021534	73.405379

3662.943	287.207	140.374706	73.659889
3664.872	287.2138	140.51633	73.855714
3666.801	287.2639	139.430955	73.990718
3668.73	287.1439	138.360861	74.169858
3670.659	286.964	143.498961	74.505962
3672.588	287.2417	143.165288	74.67821
3674.516	287.2874	139.51017	74.705992
3676.445	287.0644	147.24297	75.054938
3678.374	287.5398	147.327521	75.372834
3680.303	287.7012	147.446292	75.760654
3682.232	287.9634	147.208363	76.0237
3684.161	288.0698	146.696654	76.134297
3686.09	288.089	145.756999	76.198133
3688.019	288.1332	145.239703	76.310143
3689.947	287.9973	149.669013	76.77237
3691.876	288.0112	152.462229	77.09614
3693.805	288.1897	151.323701	77.238011
3695.734	288.2399	150.174204	77.355384
3697.663	288.354	150.663414	77.518451
3699.592	288.4811	149.79348	77.597892
3701.521	288.5398	150.472412	77.592594
3703.45	288.4769	152.803946	77.717336
3705.378	288.6042	151.821843	77.863948
3707.307	288.7726	150.566297	77.954383
3709.236	288.6719	149.442421	77.906951
3711.165	288.3761	151.421848	77.863908
3713.094	288.6093	155.447078	77.907768
3715.023	288.9893	154.620071	78.106593
3716.952	289.0916	152.731169	78.178604
3718.881	288.9182	152.566983	78.170662
3720.81	289.039	152.403436	78.346676
3722.738	289.1142	153.206665	78.536256
3724.667	289.134	153.664283	78.463408
3726.596	288.9941	155.02843	78.38796
3728.525	289.1052	155.564773	78.502993
3730.454	289.354	152.754305	78.743992
3732.383	289.2781	152.165354	78.812013
3734.312	288.834	152.242089	78.665686
3736.241	288.7343	156.755062	78.480426
3738.169	289.1464	158.246107	78.847414
3740.098	289.4164	155.818615	79.07793
3742.027	289.5855	153.334574	79.082692
3743.956	289.5967	152.326937	78.996415

3745.885	289.0683	158.590667	79.256973
3747.814	289.2415	154.697566	79.238546
3749.743	288.8914	152.923271	79.120244
3751.672	288.7692	158.094289	79.22606
3753.6	289.2063	160.115516	79.241334
3755.529	289.4605	156.939055	79.418092
3757.458	289.4103	155.601715	79.575056
3759.387	289.3063	156.843683	79.451409
3761.316	289.3947	158.677549	79.40486
3763.245	289.615	156.39307	79.552625
3765.174	289.5507	155.898011	79.607398
3767.103	289.4298	156.840868	79.578461
3769.032	289.3587	155.992268	79.54422
3770.96	289.4843	158.847638	79.489188
3772.889	289.6962	158.63187	79.668534
3774.818	289.6717	157.394861	79.861465
3776.747	289.7331	156.424789	79.892822
3778.676	289.7954	156.155412	79.814211
3780.605	289.6102	158.989642	79.803716
3782.534	289.6464	158.008926	79.946029
3784.463	289.5576	157.761519	79.975837
3786.391	289.6169	159.166204	79.963744
3788.32	289.8682	158.610218	80.089062
3790.249	289.9279	158.098095	80.154948
3792.178	289.8556	158.030367	80.256359
3794.107	289.8849	156.883561	80.24122
3796.036	289.9166	156.774951	80.191001
3797.965	289.9594	158.363663	80.077111
3799.894	289.7597	155.595868	80.101583
3801.822	289.3893	159.204297	80.476458
3803.751	289.5882	161.144393	80.381638
3805.68	289.7992	156.827227	80.342369
3807.609	289.7166	159.837257	80.321487
3809.538	289.928	160.184794	80.16741
3811.467	289.8811	158.228221	80.267855
3813.396	289.8808	156.482257	80.409382
3815.325	289.925	155.709156	80.404728
3817.254	289.9484	159.680221	80.336372
3819.182	289.9235	156.658361	80.497917
3821.111	289.5005	158.310802	80.565402
3823.04	289.5201	162.739923	80.401326
3824.969	289.7792	159.107701	80.592516
3826.898	289.7702	159.32271	80.625782

3828.827	290.0324	159.769986	80.741002
3830.756	290.1458	158.363886	80.717106
3832.685	289.9467	159.270718	80.695776
3834.613	289.7382	158.375579	80.817584
3836.542	289.6383	157.423865	80.736911
3838.471	289.4639	159.311481	80.602357
3840.4	289.6316	161.917501	80.60086
3842.329	289.7784	161.108046	80.770814
3844.258	289.8478	161.737148	80.92669
3846.187	289.9174	161.660011	81.143996
3848.116	289.9826	159.514247	81.241949
3850.044	289.9529	157.72621	81.293347
3851.973	289.8014	155.313588	81.301178
3853.902	289.2799	163.211106	81.227286
3855.831	289.587	165.575961	81.05399
3857.76	289.8678	163.42571	81.34043
3859.689	290.044	161.127006	81.522586
3861.618	290.0134	159.630345	81.524608
3863.547	289.9887	160.08181	81.413473
3865.476	289.7506	162.874932	81.2973
3867.404	289.8074	160.805236	81.43666
3869.333	289.6887	158.784102	81.496568
3871.262	289.6642	164.159713	81.592503
3873.191	289.903	161.971567	81.87108
3875.12	290.0651	163.906592	81.806001
3877.049	290.1894	162.52495	81.799883
3878.978	290.1974	159.471726	81.791117
3880.907	289.8446	161.726877	81.768854
3882.835	289.7284	162.460484	81.691817
3884.764	289.8078	160.702026	81.837364
3886.693	289.9065	164.502933	81.865299
3888.622	289.9739	162.300572	81.906366
3890.551	289.895	159.961562	81.989807
3892.48	289.8214	163.406834	82.010153
3894.409	290.0694	163.893657	82.044377
3896.338	290.1699	161.601804	82.199081
3898.266	290.0959	159.953733	82.206848
3900.195	289.9243	161.247595	82.172003
3902.124	289.8437	162.170682	82.355923
3904.053	289.5749	164.082729	82.559062
3905.982	289.7619	166.123514	82.48261
3907.911	290.0705	164.814538	82.521872
3909.84	290.2022	163.320701	82.501658

3911.769	290.159	163.091435	82.440262
3913.698	290.1067	162.668212	82.43007
3915.626	289.9806	161.679536	82.575516
3917.555	289.9873	162.988369	82.617145
3919.484	289.9505	163.891415	82.554179
3921.413	289.9158	163.59884	82.497888
3923.342	289.9685	162.555112	82.672306
3925.271	289.8327	164.347408	82.74078
3927.2	289.8378	164.427249	82.677024
3929.129	290.01	162.981178	82.750778
3931.057	289.9946	163.489864	82.797306
3932.986	289.8768	165.169664	82.808525
3934.915	289.8014	165.716009	82.985563
3936.844	289.8759	164.829565	83.136153
3938.773	289.8721	164.878719	83.190481
3940.702	289.9901	164.074384	83.210208
3942.631	289.9953	164.696405	83.143461
3944.56	289.8842	166.139651	83.198027
3946.488	289.7854	165.204809	83.347964
3948.417	289.735	165.288313	83.404505
3950.346	289.5288	166.602942	83.571357
3952.275	289.6559	166.785695	83.6717
3954.204	289.7733	166.551197	83.71671
3956.133	289.7916	166.546415	83.765976
3958.062	289.6868	166.879063	83.947682
3959.991	289.6946	166.664888	83.964904
3961.92	289.8217	167.112643	83.96864
3963.848	289.8924	167.800648	84.060867
3965.777	289.8608	167.693516	84.169477
3967.706	289.9748	167.460264	84.20302
3969.635	289.9409	167.622554	84.20597
3971.564	289.9756	167.959501	84.314613
3973.493	289.9664	168.206264	84.365562
3975.422	289.8625	168.473939	84.336255
3977.351	289.8066	168.569256	84.363993
3979.279	289.8418	168.534989	84.459258
3981.208	289.8496	168.584587	84.52685
3983.137	289.9186	168.698246	84.477816
3985.066	289.9119	168.766714	84.47328
3986.995	289.858	168.92673	84.597729
3988.924	289.8005	169.116045	84.85904
3990.853	289.8873	169.359351	84.92793
3992.782	289.9428	169.461393	84.876397

3994.71	289.9582	169.610413	84.944114
3996.639	290.0194	169.903535	85.006625
3998.568	290.1508	169.979938	85.019325
4000.497	290	170.07022	85.037282

Fig 2 : Comparative FTIR Spectra of Ligand and Copper Complexes

	DPH	COMPLEX 6	COMPLEX 7
399.2782	290	90	37.120659
401.207	286.3238	96.413136	38.234666
403.1359	290.3233	97.866706	39.158337
405.0648	291.0677	96.969672	40.129901
406.9937	291.2133	96.450387	40.821313
408.9226	290.166	96.633805	40.594606
410.8514	290.7796	96.177034	40.497906
412.7803	290.134	95.743213	40.382791
414.7092	289.2566	94.606329	39.551053
416.6381	288.5631	93.427352	38.120429
418.567	291.9945	91.862258	37.207665
420.4958	294.1086	93.242844	38.418073
422.4247	291.1835	94.34708	39.198657
424.3536	289.0012	94.293476	38.907322
426.2825	289.4267	93.75294	38.185734
428.2114	291.629	93.373369	38.583931
430.1402	293.1158	92.00405	38.680976
432.0691	290.9384	91.161304	39.060806
433.998	288.5152	91.239644	39.158394
435.9269	288.0893	91.146107	38.521315
437.8558	287.6929	91.490288	38.43416
439.7846	288.2556	92.173569	38.777073
441.7135	290.5824	92.342226	38.605978
443.6424	292.0634	92.377409	38.146742
445.5713	291.5777	92.52748	38.185453
447.5002	291.8884	92.211714	38.070922
449.429	293.1415	91.459122	38.609215
451.3579	294.0407	89.941677	38.865979
453.2868	293.4503	88.653498	38.680581
455.2157	291.7635	88.137565	38.770134

457.1446	291.1837	88.709903	38.554929
459.0734	290.7608	90.211404	38.337916
461.0023	290.3973	91.270551	38.669936
462.9312	289.7993	93.048554	38.908732
464.8601	289.2176	94.115262	38.817698
466.789	289.2182	93.705039	38.051165
468.7178	289.6407	94.372084	37.851339
470.6467	289.5976	94.733776	37.951772
472.5756	289.1309	94.487754	37.942124
474.5045	289.3326	94.653336	37.925703
476.4334	290.1017	94.768323	38.171433
478.3622	289.1614	94.466336	38.244659
480.2911	288.1478	93.691384	38.268838
482.22	287.3721	93.784093	38.516469
484.1489	286.4626	94.109371	38.582884
486.0778	284.3721	94.393043	38.334441
488.0066	281.036	94.083963	38.374267
489.9355	276.8525	93.15072	38.496017
491.8644	271.9748	92.563336	38.721547
493.7933	264.9885	92.782498	39.135007
495.7222	257.3834	92.835955	38.892329
497.651	252.9564	92.663283	38.982254
499.5799	255.8274	92.753796	39.481469
501.5088	263.7446	92.992947	39.041475
503.4377	273.1088	93.51592	38.277796
505.3666	279.1136	93.728823	38.131687
507.2954	283.7422	93.847699	38.37354
509.2243	286.3211	93.990469	38.562117
511.1532	287.4695	93.76847	38.621774
513.0821	288.3252	92.983286	38.535405
515.011	288.8197	91.992843	38.517702
516.9398	288.4791	91.214694	38.667667
518.8687	288.0432	91.390918	38.722096
520.7976	287.7098	92.579499	38.520844
522.7265	287.5337	93.88171	38.396737
524.6554	288.2837	94.33158	38.247837
526.5842	288.6204	94.523248	38.400365
528.5131	288.2494	95.312455	38.532481
530.442	288.1065	95.810994	38.37439
532.3709	288.3638	95.579773	38.205203
534.2998	288.5478	95.214905	37.951042
536.2286	288.131	95.232048	37.73384
538.1575	287.5956	95.364131	37.861495

540.0864	287.095	95.303114	37.974303
542.0153	286.5079	94.789453	38.148313
543.9442	285.5795	94.516198	38.25315
545.873	284.2926	94.683518	38.08511
547.8019	283.5165	95.263511	38.05276
549.7308	282.7485	95.451636	38.095627
551.6597	280.8682	95.718426	38.069204
553.5886	279.6455	96.304662	37.906948
555.5174	278.9682	96.061775	37.752766
557.4463	277.128	95.658187	37.64118
559.3752	274.8237	95.565683	37.428107
561.3041	275.1467	95.615976	37.194364
563.233	276.7889	95.220066	37.151388
565.1618	276.9846	94.633264	37.102406
567.0907	275.7315	93.924048	36.78791
569.0196	274.6313	92.971393	36.302509
570.9485	273.8212	91.792751	35.799777
572.8774	272.5722	89.673606	35.282504
574.8062	271.5133	86.41733	34.761754
576.7351	269.7056	82.678935	34.285232
578.664	266.919	80.193011	33.453431
580.5929	266.2846	79.296216	33.04151
582.5218	264.4538	80.422993	33.164258
584.4506	261.5599	83.308069	33.092558
586.3795	259.0305	87.250398	32.85472
588.3084	257.2152	90.387051	32.78504
590.2373	255.6589	92.071867	32.716779
592.1662	254.4408	93.284956	32.374034
594.095	254.085	94.327692	32.192885
596.0239	254.8784	95.086004	32.232204
597.9528	256.559	95.72754	32.163401
599.8817	259.039	96.189795	32.037944
601.8106	261.4433	96.587699	31.94591
603.7394	263.5547	96.739166	32.034597
605.6683	265.0126	96.897063	32.194989
607.5972	266.124	97.110405	32.390752
609.5261	266.7633	97.1623	32.496451
611.455	267.5366	96.985295	32.740286
613.3838	267.7647	96.936164	33.080488
615.3127	267.5483	96.880762	33.310166
617.2416	267.0035	96.924315	33.616898
619.1705	266.1472	97.189704	34.178205
621.0994	265.3444	97.382695	34.870556

623.0282	264.6052	97.442066	35.500724
624.9571	264.5739	97.455859	35.961158
626.886	265.503	97.57462	36.367119
628.8149	267.1398	97.793364	36.684971
630.7438	269.6091	97.867175	36.869831
632.6726	271.9198	97.741685	36.907826
634.6015	274.0247	97.555268	36.652014
636.5304	276.5428	97.54185	36.657621
638.4593	279.7204	97.560022	37.111734
640.3882	281.933	97.617287	37.436919
642.317	283.361	97.572443	37.497144
644.2459	285.0584	97.560028	37.453827
646.1748	286.6361	97.787025	37.329567
648.1037	287.8024	97.909494	37.097114
650.0326	289.0185	97.751384	36.60562
651.9614	290.1823	97.545457	35.904947
653.8903	291.1172	97.504192	35.642678
655.8192	291.7705	97.468526	35.57627
657.7481	292.2382	97.456158	35.608324
659.677	292.619	97.526798	35.838212
661.6058	292.9926	97.643435	36.029315
663.5347	293.192	97.826	36.184169
665.4636	293.5483	97.7879	36.558373
667.3925	294.4704	96.628473	36.515632
669.3214	295.1703	96.053752	37.273424
671.2502	294.8564	97.127116	38.65775
673.1791	294.5983	97.31748	39.188393
675.108	294.65	97.332944	39.407715
677.0369	295.0917	97.383243	39.659026
678.9658	295.191	97.298969	39.923821
680.8946	294.767	97.219082	40.106686
682.8235	294.3455	97.078338	40.224503
684.7524	294.335	96.920872	40.32736
686.6813	294.4494	97.024107	40.45374
688.6102	294.3306	96.952756	40.550393
690.539	294.0551	96.946709	40.636593
692.4679	293.9588	97.009017	40.786115
694.3968	294.1107	96.94148	40.848506
696.3257	294.0264	96.801828	40.844981
698.2546	293.7943	96.843666	40.860502
700.1834	293.5068	96.855379	40.92205
702.1123	293.3676	96.766621	40.905658
704.0412	293.2776	96.57168	40.76391

705.9701	292.856	96.408401	40.694994
707.899	292.4351	96.278576	40.665759
709.8278	292.188	96.142398	40.560748
711.7567	291.875	95.916471	40.376404
713.6856	291.2922	95.682679	40.192536
715.6145	290.7772	95.327952	39.923549
717.5434	290.492	94.715303	39.629552
719.4722	290.65	94.17666	39.103839
721.4011	290.0984	94.205842	38.70783
723.33	287.4974	94.594476	38.723616
725.2589	282.3111	95.034123	38.501078
727.1878	275.1833	95.534951	37.855869
729.1166	267.6845	95.83147	36.753461
731.0455	263.7505	96.070767	34.909758
732.9744	262.9619	96.272718	33.425748
734.9033	262.6007	96.300716	34.03623
736.8322	263.7455	96.127896	36.251951
738.761	266.2385	95.936129	38.381938
740.6899	267.1788	95.706382	39.330177
742.6188	265.9615	95.282888	39.329444
744.5477	263.4618	94.695764	39.160779
746.4766	259.9491	94.073762	38.999995
748.4054	255.6079	93.562188	38.905819
750.3343	250.649	93.421815	38.921341
752.2632	246.2514	93.790282	39.036371
754.1921	246.0334	94.447775	39.236715
756.121	252.4239	94.962292	39.22605
758.0498	261.6965	95.258253	38.887603
759.9787	269.465	95.372735	38.091211
761.9076	274.9317	95.284628	36.626268
763.8365	278.8391	95.146941	34.550672
765.7654	281.9192	95.042874	32.386505
767.6942	284.4215	94.94287	30.921364
769.6231	286.4386	94.769009	30.343136
771.552	288.1814	94.54468	30.502936
773.4809	289.8827	94.298922	31.249876
775.4098	291.4528	93.98513	32.352535
777.3386	292.5496	93.491578	33.640341
779.2675	293.56	92.839102	34.99212
781.1964	294.7391	91.848215	36.362687
783.1253	295.6754	90.432583	37.62463
785.0542	296.2943	89.04117	38.770919
786.983	296.4853	88.029274	39.833298

788.9119	296.3706	87.710987	40.615074
790.8408	295.5742	87.927559	41.140001
792.7697	292.9671	88.183844	41.509452
794.6986	291.3425	88.367652	41.784983
796.6274	293.2086	88.400777	41.965067
798.5563	295.4819	88.249489	42.087637
800.4852	296.7906	88.054941	42.074267
802.4141	297.5412	87.88169	41.91026
804.343	298.0628	87.611593	41.702739
806.2718	298.5257	87.135692	41.515384
808.2007	298.8111	86.556194	41.36294
810.1296	298.8145	85.976822	41.217646
812.0585	298.5674	85.369911	41.077826
813.9874	297.9274	84.832308	41.044336
815.9162	296.4309	84.314286	41.11946
817.8451	293.8349	83.813375	41.250708
819.774	290.1423	83.158643	41.394578
821.7029	287.0022	82.602458	41.55679
823.6318	287.2178	82.434257	41.676198
825.5606	290.3851	82.806599	41.680161
827.4895	294.2982	83.286163	41.552789
829.4184	297.0631	83.775155	41.387888
831.3473	297.6115	84.200142	41.063972
833.2762	296.7678	84.567806	40.715997
835.205	296.6827	84.945177	40.744361
837.1339	298.5797	85.298653	40.923335
839.0628	300.7458	85.545038	40.937607
840.9917	301.8413	85.644837	40.915114
842.9206	302.4474	85.57203	40.878203
844.8494	302.736	85.335744	40.81897
846.7783	302.6062	84.827362	40.736646
848.7072	302.4026	84.132531	40.71333
850.6361	302.2862	83.561422	40.724372
852.565	302.0829	83.43097	40.76798
854.4938	302.0368	83.777725	40.766908
856.4227	302.0316	84.573668	40.711315
858.3516	301.9439	85.448009	40.693339
860.2805	302.005	86.17784	40.682961
862.2094	302.1354	86.61228	40.624041
864.1382	302.308	86.787749	40.514829
866.0671	302.4709	86.640821	40.41986
867.996	302.5779	86.090284	40.336953
869.9249	302.6136	85.048201	40.245959

871.8538	302.5871	83.473977	40.153841
873.7826	302.5438	81.485578	40.032659
875.7115	302.3336	80.104685	39.901021
877.6404	302.086	80.772449	39.77596
879.5693	301.8895	83.642071	39.688024
881.4982	301.6151	87.044057	39.62734
883.427	301.3449	89.682346	39.610115
885.3559	301.2384	91.495414	39.608006
887.2848	301.163	92.737848	39.642459
889.2137	301.0632	93.528182	39.697362
891.1426	300.9844	94.149418	39.775038
893.0714	300.9659	94.608391	39.880561
895.0003	300.8207	94.883322	40.010339
896.9292	300.5413	95.162966	40.055542
898.8581	300.1252	95.41393	40.077873
900.787	299.5626	95.577914	40.176766
902.7158	298.9423	95.665564	40.288423
904.6447	297.9627	95.660311	40.336628
906.5736	296.6768	95.610144	40.321775
908.5025	295.1237	95.438255	40.293815
910.4314	293.1733	95.109447	40.21039
912.3602	290.4659	94.612763	40.084219
914.2891	286.8087	93.832578	39.937542
916.218	282.3987	92.748673	39.709291
918.1469	277.3063	91.769794	39.416265
920.0758	272.1044	91.575947	39.10284
922.0046	268.8431	92.220332	38.753031
923.9335	269.3025	93.147717	38.395387
925.8624	272.5778	93.968098	38.054766
927.7913	277.1095	94.607063	37.679772
929.7202	282.1765	95.066301	37.356575
931.649	287.062	95.363883	37.026146
933.5779	290.7391	95.581944	36.675759
935.5068	292.7021	95.792528	36.304448
937.4357	292.9517	95.861787	35.924501
939.3646	291.696	95.866464	35.523667
941.2934	289.4233	95.898925	35.097682
943.2223	285.5516	95.88202	34.664504
945.1512	278.4566	95.817871	34.248161
947.0801	270.7577	95.789351	33.735923
949.009	270.7887	95.700169	33.196561
950.9378	279.6901	95.539949	32.682357
952.8667	288.8817	95.410391	32.085125

954.7956	294.0418	95.315228	31.498267
956.7245	296.2049	95.221329	30.903563
958.6534	296.8763	95.125955	30.256138
960.5822	296.6471	94.885673	29.606373
962.5111	295.6731	94.637835	28.974782
964.44	293.8648	94.157465	28.428724
966.3689	290.9795	93.470694	27.904941
968.2978	286.3854	92.560553	27.469712
970.2266	280.9598	91.340633	27.155182
972.1555	278.9864	89.80203	26.958432
974.0844	283.1073	88.269726	26.850785
976.0133	289.1937	87.349168	26.8897
977.9422	293.0024	87.564515	27.091965
979.871	294.278	88.645348	27.425221
981.7999	294.0312	90.041823	27.890506
983.7288	292.908	91.256479	28.554905
985.6577	292.1413	92.123731	29.38003
987.5866	292.8054	92.616855	30.24956
989.5154	294.2723	92.802782	31.144097
991.4443	295.5279	92.698092	32.031246
993.3732	296.2174	92.145123	32.820846
995.3021	296.3788	91.154192	33.499735
997.231	296.2559	90.258024	34.06907
999.1598	296.0568	90.106416	34.459193
1001.089	295.6825	90.812914	34.627532
1003.018	295.1229	91.692782	34.634361
1004.946	294.488	92.360704	34.49744
1006.875	293.8246	92.68703	34.179357
1008.804	293.2372	92.788355	33.708217
1010.733	292.586	92.685672	33.051526
1012.662	291.9356	92.433134	32.251381
1014.591	291.2908	92.042156	31.341364
1016.52	290.5559	91.542986	30.414612
1018.449	289.6281	90.886892	29.55106
1020.378	288.5683	90.056497	28.652894
1022.306	287.4305	89.109338	27.611214
1024.235	286.2314	88.319894	26.510931
1026.164	285.0457	88.008755	25.580851
1028.093	283.9081	88.295035	25.049639
1030.022	282.7025	88.96507	24.901778
1031.951	281.06	89.679624	24.882052
1033.88	278.9087	90.159411	24.961331
1035.809	276.2167	90.365482	25.234507

1037.737	272.9075	90.343858	25.577389
1039.666	269.1569	90.099461	25.70539
1041.595	265.6742	89.54973	25.599744
1043.524	262.1589	88.655248	25.267853
1045.453	257.023	87.361485	24.832868
1047.382	249.6427	85.393262	24.567811
1049.311	240.4356	82.50764	24.53564
1051.24	230.6445	78.853796	24.518187
1053.168	222.6417	75.245731	24.408508
1055.097	218.7508	72.816523	24.235726
1057.026	219.6965	72.247644	24.089184
1058.955	223.4073	73.621024	23.921828
1060.884	225.75	76.182548	23.802769
1062.813	225.4042	78.598627	23.716546
1064.742	227.9746	79.994951	23.740959
1066.671	236.7102	80.010833	24.032897
1068.6	246.983	78.589708	24.253267
1070.528	254.772	76.48359	24.118233
1072.457	261.3526	75.152832	23.88262
1074.386	266.5982	75.355334	23.771312
1076.315	269.239	76.650451	23.876677
1078.244	269.279	78.226752	24.118801
1080.173	266.9568	79.612105	24.415179
1082.102	262.574	80.715351	24.735455
1084.031	257.034	81.643722	25.086596
1085.959	252.188	82.350496	25.374108
1087.888	248.5251	82.673585	25.580787
1089.817	244.249	82.477582	25.681744
1091.746	238.642	82.23899	25.687684
1093.675	234.5218	82.898736	25.564586
1095.604	235.4727	84.519334	25.347826
1097.533	242.1018	86.251065	25.062489
1099.462	251.8009	87.470822	24.799726
1101.39	261.4309	88.135272	24.494284
1103.319	269.3643	88.221069	24.190359
1105.248	275.5046	87.654266	23.969527
1107.177	280.1655	86.348613	23.898535
1109.106	283.7284	84.417663	23.966475
1111.035	286.4534	82.249409	24.053396
1112.964	288.5024	80.48514	24.101947
1114.893	289.9281	80.026949	24.112683
1116.822	291.0141	81.360401	24.042505
1118.75	291.6835	83.867268	23.991612

1120.679	291.8971	86.439842	23.971219
1122.608	291.4413	88.500756	24.009684
1124.537	290.2137	90.020921	24.048401
1126.466	287.7871	91.105488	24.056653
1128.395	283.636	91.852402	24.065311
1130.324	277.2351	92.340217	24.20187
1132.253	268.7446	92.683608	24.444725
1134.181	259.0274	92.880946	24.680009
1136.11	250.8316	92.961062	24.882567
1138.039	248.5906	92.928231	25.083527
1139.968	253.8995	92.86811	25.232775
1141.897	263.7469	92.720821	25.390718
1143.826	273.4704	92.477698	25.542973
1145.755	280.6826	92.119968	25.694551
1147.684	285.7318	91.712543	25.782742
1149.612	289.2754	91.138458	25.83825
1151.541	291.7419	90.434339	25.803408
1153.47	293.4663	89.55829	25.696694
1155.399	294.6622	88.310037	25.570024
1157.328	295.3726	86.516397	25.498815
1159.257	295.5744	84.152804	25.50869
1161.186	295.0499	81.548783	25.637273
1163.115	293.6027	79.454911	25.875337
1165.044	291.3785	78.685317	26.146407
1166.972	289.8104	79.487613	26.352101
1168.901	290.3965	81.186878	26.51168
1170.83	292.5073	82.731778	26.620758
1172.759	294.4829	83.224032	26.705667
1174.688	295.8336	82.58754	26.751203
1176.617	296.5214	81.565864	26.917708
1178.546	296.7889	81.365666	27.121245
1180.475	296.7431	82.561914	27.341479
1182.403	296.6728	84.63532	27.607537
1184.332	296.5102	86.695231	27.910812
1186.261	296.204	88.33957	28.190776
1188.19	295.8887	89.631189	28.459078
1190.119	295.5214	90.636287	28.710435
1192.048	295.1196	91.292118	28.965677
1193.977	294.7164	91.708542	29.214237
1195.906	293.9388	91.902261	29.465711
1197.834	292.8309	91.960722	29.654549
1199.763	291.2184	91.906203	29.852466
1201.692	288.8941	91.826668	30.03526

1203.621	285.63	91.647014	30.227096
1205.55	281.3421	91.422721	30.397758
1207.479	275.9537	91.095455	30.540779
1209.408	270.25	90.656021	30.628551
1211.337	266.525	90.075419	30.724703
1213.266	267.0136	89.431784	30.838619
1215.194	271.3981	88.652922	30.943871
1217.123	276.9695	87.734881	31.045878
1219.052	281.6262	86.648689	31.22115
1220.981	285.0387	85.603307	31.433086
1222.91	287.1723	84.722397	31.671855
1224.839	288.6522	84.232171	31.972288
1226.768	290.5078	84.333132	32.3961
1228.697	292.9583	84.862295	32.877703
1230.625	295.3319	85.472345	33.394342
1232.554	297.0571	85.877774	33.956059
1234.483	297.9786	85.968724	34.547963
1236.412	298.3932	85.956563	35.086761
1238.341	298.5413	85.964871	35.529471
1240.27	298.5876	86.138445	35.855655
1242.199	298.3365	86.512759	36.068996
1244.128	297.8983	87.002539	36.080413
1246.056	297.3131	87.49335	36.071787
1247.985	296.7429	87.870237	36.27703
1249.914	295.9063	88.132727	36.776083
1251.843	294.7898	88.422567	37.418957
1253.772	293.4459	88.738444	38.001895
1255.701	291.9247	89.083067	38.388194
1257.63	289.8469	89.369616	38.544866
1259.559	286.9753	89.498202	38.507384
1261.488	282.9327	89.624055	38.275937
1263.416	277.594	89.71848	37.883836
1265.345	270.481	89.575935	37.352566
1267.274	261.5808	89.347433	36.854494
1269.203	252.0811	89.032185	36.425782
1271.132	245.2175	88.658692	35.984729
1273.061	244.5671	88.296495	35.567366
1274.99	250.1039	87.823776	35.298164
1276.919	258.5632	87.092002	35.215927
1278.847	267.5788	86.192707	35.388277
1280.776	275.9701	85.144385	35.85471
1282.705	282.5499	84.143525	36.583581
1284.634	287.1026	83.252982	37.478489

1286.563	290.1584	82.615891	38.360406
1288.492	292.0904	82.287135	39.193997
1290.421	293.1799	82.193316	39.931053
1292.35	293.5791	81.965853	40.43057
1294.278	293.4106	81.562753	40.70571
1296.207	292.5812	81.235232	40.762688
1298.136	290.7868	81.499051	40.678674
1300.065	287.7468	82.129775	40.539477
1301.994	284.7716	82.699804	40.306024
1303.923	284.5737	82.971242	40.031125
1305.852	287.0504	82.930793	39.717903
1307.781	289.0812	82.503904	39.245979
1309.71	289.6835	81.778538	38.542355
1311.638	289.2313	80.467865	37.64509
1313.567	287.7998	78.634322	36.620371
1315.496	284.9722	76.920088	35.852597
1317.425	280.2606	75.512026	35.471505
1319.354	273.5362	74.862397	35.52018
1321.283	268.0328	75.084569	35.927827
1323.212	267.6336	75.475927	36.395564
1325.141	271.224	75.956079	36.777772
1327.069	274.8838	76.712556	37.075478
1328.998	278.5526	77.89359	37.305466
1330.927	282.6304	79.288819	37.550708
1332.856	285.631	80.541543	37.793153
1334.785	287.4569	81.333559	38.001371
1336.714	288.8978	81.552647	38.098197
1338.643	289.83	81.114359	38.037906
1340.572	290.5524	81.019572	38.065362
1342.5	290.8987	80.910286	38.345922
1344.429	290.7543	79.849429	38.508901
1346.358	290.0848	79.051625	38.526809
1348.287	289.131	79.053866	38.481988
1350.216	287.7421	79.13959	38.424873
1352.145	286.2007	78.847201	38.350842
1354.074	284.2946	78.371696	38.180609
1356.003	281.9849	78.467851	37.876495
1357.932	279.2613	79.155335	37.491328
1359.86	276.2585	79.824523	37.062579
1361.789	272.4548	80.090118	36.492399
1363.718	267.0433	80.595177	35.843074
1365.647	261.4103	80.77589	35.55613
1367.576	255.6064	79.788177	35.27777

1369.505	250.8937	78.507384	35.045547
1371.434	250.5679	77.65156	35.017779
1373.363	255.1836	76.692295	34.986781
1375.291	262.8969	76.104823	34.931125
1377.22	268.1394	75.804239	35.014494
1379.149	270.1369	75.228026	34.925339
1381.078	268.8175	75.377345	34.646109
1383.007	264.7411	76.258593	34.147511
1384.936	258.7751	77.299264	33.895981
1386.865	251.3109	78.260583	33.992525
1388.794	244.3317	80.42996	34.384588
1390.722	242.5192	82.152698	34.735684
1392.651	244.9901	83.037708	34.985555
1394.58	249.6327	83.487356	35.140777
1396.509	253.7693	84.468774	35.476772
1398.438	254.61	85.086427	35.877027
1400.367	252.7375	85.948653	36.379421
1402.296	250.1801	86.512652	36.854812
1404.225	249.0869	86.476425	37.102869
1406.154	251.1158	87.109953	37.383534
1408.082	256.0093	87.741303	37.74588
1410.011	263.0549	87.835353	38.028665
1411.94	270.7052	87.994124	38.37841
1413.869	276.7786	88.328843	38.815966
1415.798	280.8039	87.981048	39.157781
1417.727	283.4981	87.110679	39.312546
1419.656	285.5341	87.365629	39.349181
1421.585	286.7186	88.149005	39.629621
1423.513	287.1471	87.81192	39.691206
1425.442	287.4406	87.845202	39.598745
1427.371	287.3401	87.575396	39.592213
1429.3	286.8408	86.413381	39.286743
1431.229	285.8773	84.894211	38.758195
1433.158	284.7115	83.046715	38.206425
1435.087	282.8711	80.901063	37.568841
1437.016	278.4829	79.238763	35.695549
1438.944	272.638	79.334314	33.714576
1440.873	266.6218	79.568615	31.666327
1442.802	260.5801	80.34568	29.24669
1444.731	258.6842	81.442711	27.809997
1446.66	261.1645	82.14769	28.137156
1448.589	264.8963	83.344378	30.680603
1450.518	266.168	84.611006	33.647084

1452.447	266.8177	85.371894	36.017675
1454.376	267.3602	85.494113	37.532903
1456.304	265.9891	84.487817	38.269902
1458.233	259.8064	85.574828	38.665238
1460.162	254.2295	87.83371	39.226567
1462.091	248.5322	88.479983	39.395764
1464.02	241.1426	88.120367	39.165488
1465.949	231.8139	88.161452	38.149625
1467.878	227.4825	88.579797	37.258261
1469.807	227.6521	88.153449	36.087136
1471.735	229.3845	86.685938	34.434205
1473.664	234.1927	85.879387	32.132144
1475.593	239.393	86.612715	32.549631
1477.522	246.4042	87.024214	34.434589
1479.451	252.0571	86.963004	36.193267
1481.38	256.9955	86.490121	37.489844
1483.309	259.9209	86.834526	38.148628
1485.238	261.1829	86.890938	38.23256
1487.166	260.6189	86.354162	37.785375
1489.095	259.0198	85.482388	36.973349
1491.024	254.8272	86.340437	35.55706
1492.953	250.7366	87.303809	34.720563
1494.882	245.9622	86.893195	33.877055
1496.811	238.8289	85.915678	32.722772
1498.74	231.0362	86.08819	32.306984
1500.669	224.9465	86.470215	32.530687
1502.598	220.6927	86.601908	32.806212
1504.526	218.6656	85.928017	33.06906
1506.455	218.8037	83.430488	32.698845
1508.384	222.6813	83.119588	31.46259
1510.313	226.3622	84.921127	31.505128
1512.242	231.5787	85.637599	31.474354
1514.171	237.2779	85.637747	31.320677
1516.1	243.1703	84.509981	31.092675
1518.029	250.1624	84.517144	30.817206
1519.957	254.6554	84.089705	30.913805
1521.886	259.9592	83.068511	30.59526
1523.815	264.6644	83.791617	30.690512
1525.744	267.792	83.790018	30.718425
1527.673	271.3762	83.96661	30.74397
1529.602	274.2881	84.393098	30.894734
1531.531	276.5962	83.846177	31.124444
1533.46	279.0318	82.744663	31.182697

1535.388	281.6479	82.944022	31.509392
1537.317	283.0473	82.666212	31.809976
1539.246	284.2313	80.794327	31.968696
1541.175	285.812	79.020295	32.015641
1543.104	286.9656	79.428933	32.50107
1545.033	287.9627	79.946265	32.944829
1546.962	288.9033	80.812035	33.609554
1548.891	289.5152	80.288397	33.997854
1550.82	290.1362	79.404862	34.374006
1552.748	290.7147	78.980718	34.831619
1554.677	291.09	77.71812	35.155959
1556.606	291.3642	76.708889	35.543931
1558.535	291.0653	74.600643	35.576056
1560.464	291.2232	75.14857	35.204456
1562.393	291.5858	75.578252	35.437479
1564.322	291.47	75.029054	35.230537
1566.251	291.0739	74.316183	34.852689
1568.179	290.6795	73.529046	34.820578
1570.108	289.7486	72.542588	34.764317
1572.037	289.0374	72.583492	34.756194
1573.966	288.4186	71.87061	34.624819
1575.895	287.2508	70.549389	34.414997
1577.824	285.7187	69.999687	34.674399
1579.753	284.6654	69.933349	35.046747
1581.682	282.9294	69.087134	35.005144
1583.61	280.8263	67.911794	34.634948
1585.539	278.5732	66.317564	34.196137
1587.468	276.4014	64.453392	33.798972
1589.397	274.0879	62.020876	33.36062
1591.326	271.8064	59.459196	32.834115
1593.255	269.2239	56.701015	32.140535
1595.184	266.3006	53.969656	31.02617
1597.113	262.7345	51.502794	29.306176
1599.042	258.8506	49.96462	27.40712
1600.97	254.2292	49.130356	25.871771
1602.899	249.4423	49.833935	25.537365
1604.828	245.4293	51.527292	26.101083
1606.757	244.2291	53.61833	26.540765
1608.686	246.0264	55.737686	26.472159
1610.615	250.2447	58.019195	26.729717
1612.544	253.6911	59.686262	27.517828
1614.473	255.0905	60.571285	28.481446
1616.401	253.3444	60.974274	29.0388

1618.33	249.179	62.274834	29.267909
1620.259	246.5492	62.693708	29.373701
1622.188	245.1122	62.505908	29.350383
1624.117	245.091	62.506785	29.105221
1626.046	245.6972	62.75373	29.130632
1627.975	244.8936	62.412783	29.06954
1629.904	242.0282	62.265877	29.014977
1631.832	237.9811	61.703445	29.052232
1633.761	233.8364	60.712974	29.074759
1635.69	227.8998	58.710971	28.797849
1637.619	223.1778	57.508112	28.614852
1639.548	222.4384	56.77407	28.736348
1641.477	223.0924	55.451285	28.750918
1643.406	224.5102	53.696726	28.703286
1645.335	225.7626	51.713763	28.583794
1647.264	226.8115	48.191633	28.095484
1649.192	227.2465	46.620964	28.065482
1651.121	227.3448	45.497819	28.211083
1653.05	227.4048	42.783629	27.798379
1654.979	229.4215	39.829469	27.213872
1656.908	231.437	39.496997	27.362394
1658.837	234.4736	38.804175	27.335195
1660.766	237.9584	38.346073	27.237636
1662.695	242.5714	38.96944	26.990051
1664.623	247.6243	41.332956	26.847809
1666.552	251.4298	43.274238	26.924104
1668.481	255.0488	45.396136	26.866815
1670.41	259.8632	49.60496	26.766984
1672.339	263.4556	53.192745	26.970394
1674.268	266.3647	55.560841	27.184031
1676.197	269.8312	59.24549	27.340599
1678.126	272.5471	61.687621	27.671901
1680.054	274.6003	63.194806	27.914821
1681.983	276.5953	64.753277	28.27311
1683.912	277.9725	65.95956	28.532584
1685.841	280.4925	70.402544	29.356969
1687.77	281.7316	71.852485	29.947863
1689.699	283.0295	73.68075	30.661429
1691.628	284.2587	75.792618	31.555805
1693.557	285.1972	76.652311	32.335351
1695.486	285.8581	76.720399	33.072557
1697.414	286.8822	77.594656	34.133781
1699.343	287.3106	78.060556	34.799701

1701.272	288.2621	80.030645	36.028523
1703.201	289.0529	80.827965	36.852891
1705.13	289.62	81.029638	37.513768
1707.059	290.1613	82.229731	38.273132
1708.988	290.7743	83.161633	39.030169
1710.917	291.1832	83.563919	39.553358
1712.845	291.691	83.548476	40.045464
1714.774	291.9993	82.683876	40.213763
1716.703	292.225	82.176304	40.371936
1718.632	292.4035	83.638343	40.586768
1720.561	293.066	85.127132	41.103781
1722.49	293.4348	85.346041	41.30587
1724.419	293.7521	85.725308	41.423733
1726.348	294.0641	86.140854	41.554618
1728.276	294.4107	86.044062	41.654779
1730.205	294.631	85.538423	41.548744
1732.134	294.9532	85.110992	41.653385
1734.063	294.9142	84.721019	41.474878
1735.992	295.3271	86.239206	41.546029
1737.921	295.6845	86.397421	41.800576
1739.85	295.9099	86.41179	41.795366
1741.779	296.0425	86.650027	41.80822
1743.708	296.3027	86.391527	41.800016
1745.636	296.5506	86.416311	41.879693
1747.565	296.8105	86.059926	42.026463
1749.494	296.8983	85.844423	41.9936
1751.423	297.0783	86.603	42.088098
1753.352	297.3202	87.656028	42.410131
1755.281	297.6126	87.808537	42.728034
1757.21	297.6519	87.574463	42.70618
1759.139	297.8245	87.829672	42.970306
1761.067	297.8064	87.646886	43.157418
1762.996	297.7623	88.005937	43.265579
1764.925	297.7492	88.490853	43.546735
1766.854	297.7694	88.200934	43.761892
1768.783	297.6451	87.893647	43.851685
1770.712	297.6725	87.471908	44.078445
1772.641	297.5109	87.164906	43.96027
1774.57	297.6631	88.058058	44.114662
1776.498	297.8346	88.488908	44.302292
1778.427	298.1206	88.571476	44.511443
1780.356	298.1954	88.306861	44.509458
1782.285	298.3478	88.65089	44.579593

1784.214	298.5003	88.700478	44.62989
1786.143	298.6752	88.931886	44.658623
1788.072	298.8205	89.069012	44.813851
1790.001	298.9658	88.51944	44.887398
1791.93	298.9701	87.798307	44.678237
1793.858	299.1513	88.330429	44.626473
1795.787	299.3321	88.570997	44.744482
1797.716	299.5113	88.780018	44.888251
1799.645	299.5562	88.666823	44.923079
1801.574	299.6726	88.508723	44.792663
1803.503	299.79	89.049176	44.884817
1805.432	299.9583	89.423794	45.047193
1807.361	300.0993	89.332502	45.058143
1809.289	300.2309	89.179654	45.062387
1811.218	300.1924	89.084836	45.004924
1813.147	300.2222	89.451567	45.054373
1815.076	300.2323	89.733708	45.166835
1817.005	300.2352	89.65566	45.162786
1818.934	300.162	89.727963	45.16909
1820.863	300.1293	89.794142	45.21777
1822.792	300.0599	89.563145	45.224252
1824.72	300.0302	89.211281	45.128224
1826.649	300.0574	89.384827	45.105549
1828.578	300.1372	89.129224	45.196581
1830.507	300.0692	89.077765	44.980704
1832.436	300.3531	89.814051	45.114168
1834.365	300.5657	89.947158	45.219803
1836.294	300.7295	89.871882	45.222091
1838.223	300.8178	89.892658	45.187575
1840.152	300.9628	90.047866	45.232231
1842.08	301.0766	89.632926	45.231348
1844.009	301.0454	89.03413	45.060298
1845.938	300.9565	89.303491	44.909068
1847.867	300.9983	89.680068	45.033677
1849.796	300.9222	90.086511	45.132728
1851.725	300.8701	90.344161	45.224584
1853.654	300.7193	90.350423	45.200811
1855.583	300.67	90.367359	45.184853
1857.511	300.6124	90.238941	45.108592
1859.44	300.5727	90.15334	45.064869
1861.369	300.4888	90.166326	45.034927
1863.298	300.5486	90.272717	45.032987
1865.227	300.6415	90.069917	44.989632

1867.156	300.6797	89.408588	44.873675
1869.085	300.4935	89.07583	44.631744
1871.014	300.6049	89.901897	44.704426
1872.942	300.6578	90.382767	44.844071
1874.871	300.6081	90.485299	44.870796
1876.8	300.5099	90.469677	44.816833
1878.729	300.4262	90.437525	44.783088
1880.658	300.3576	90.439223	44.759926
1882.587	300.3502	90.489283	44.780797
1884.516	300.2661	90.402529	44.723163
1886.445	300.3041	90.40032	44.711873
1888.374	300.2449	90.157461	44.694913
1890.302	300.1152	90.103901	44.561693
1892.231	300.0884	90.364595	44.56723
1894.16	300.1115	90.214395	44.594247
1896.089	300.0161	90.218575	44.513359
1898.018	300.0368	90.539969	44.556247
1899.947	300.0225	90.625606	44.542631
1901.876	299.9644	90.614836	44.510646
1903.805	299.8306	90.618233	44.467102
1905.733	299.7184	90.59237	44.471576
1907.662	299.5291	90.367653	44.423009
1909.591	299.3025	90.181635	44.322885
1911.52	299.1188	90.40865	44.279642
1913.449	299.0481	90.594178	44.321062
1915.378	298.8773	90.481365	44.33016
1917.307	298.6509	90.094803	44.266597
1919.236	298.3449	90.137456	44.143563
1921.164	298.2113	90.173964	44.213532
1923.093	297.993	89.861468	44.057945
1925.022	297.8391	90.262164	44.064529
1926.951	297.681	90.452258	44.109919
1928.88	297.6058	90.446086	44.091941
1930.809	297.523	90.392399	44.045985
1932.738	297.4106	90.357011	44.007438
1934.667	297.2525	90.334678	43.947816
1936.596	297.2119	90.342099	43.935883
1938.524	297.0976	90.296604	43.898492
1940.453	296.9984	90.099622	43.890668
1942.382	296.8302	89.688325	43.736132
1944.311	296.7227	89.878871	43.676108
1946.24	296.6424	90.049823	43.700932
1948.169	296.566	90.18738	43.702707

1950.098	296.4146	90.257364	43.681417
1952.027	296.2996	90.2612	43.650605
1953.955	296.1577	90.153453	43.604198
1955.884	296.0052	90.115259	43.550129
1957.813	295.8284	90.18577	43.506607
1959.742	295.7181	90.23436	43.50313
1961.671	295.5722	90.198098	43.516839
1963.6	295.4263	90.185387	43.512861
1965.529	295.1998	89.936346	43.429729
1967.458	294.9565	89.738454	43.299367
1969.386	294.7396	90.002705	43.293382
1971.315	294.5952	90.153135	43.348966
1973.244	294.4554	90.154585	43.30597
1975.173	294.278	90.165133	43.26437
1977.102	294.077	90.166318	43.24109
1979.031	293.9792	90.182552	43.240399
1980.96	293.7624	90.17513	43.209886
1982.889	293.4695	90.176969	43.179401
1984.818	293.1783	90.162455	43.123833
1986.746	292.9044	90.064935	43.071409
1988.675	292.4554	89.950971	42.982622
1990.604	292.0017	89.853683	42.986193
1992.533	291.5414	89.686013	42.887449
1994.462	291.1738	89.966995	42.921724
1996.391	290.7502	90.102312	42.960957
1998.32	290.3745	90.048961	42.932848
2000.249	290	90	42.903913
2002.177	289.6517	90.001355	42.88649
2004.106	289.3426	89.977024	42.831208
2006.035	289.172	89.969328	42.796026
2007.964	289.0279	89.916683	42.765337
2009.893	288.9486	89.899364	42.749262
2011.822	288.9303	89.860338	42.728452
2013.751	288.999	89.832007	42.718266
2015.68	289.0055	89.630738	42.668634
2017.608	288.9167	89.446203	42.582845
2019.537	288.7874	89.610394	42.581501
2021.466	288.5977	89.717099	42.61986
2023.395	288.3368	89.685938	42.608147
2025.324	288.1465	89.670315	42.619934
2027.253	287.9305	89.66939	42.60312
2029.182	287.7269	89.691972	42.591975
2031.111	287.507	89.644739	42.568241

2033.04	287.306	89.607007	42.579417
2034.968	287.1822	89.573323	42.591366
2036.897	287.1718	89.558704	42.588566
2038.826	287.1825	89.514634	42.591941
2040.755	287.3125	89.38123	42.580662
2042.684	287.575	89.348299	42.563488
2044.613	287.9083	89.427813	42.610509
2046.542	288.3125	89.453291	42.624058
2048.471	288.9309	89.466877	42.633934
2050.399	289.5688	89.440969	42.634491
2052.328	290.2188	89.435901	42.645714
2054.257	290.843	89.428891	42.632742
2056.186	291.4498	89.424732	42.637627
2058.115	291.9138	89.434508	42.652105
2060.044	292.3995	89.433145	42.662732
2061.973	292.8433	89.410318	42.651445
2063.902	293.1253	89.279132	42.664077
2065.83	293.3227	89.156074	42.664013
2067.759	293.648	89.264443	42.69734
2069.688	293.9316	89.315826	42.701784
2071.617	294.1831	89.307452	42.73589
2073.546	294.4159	89.290529	42.743561
2075.475	294.64	89.32413	42.757521
2077.404	294.7781	89.333424	42.757373
2079.333	294.9573	89.327643	42.756983
2081.262	295.1107	89.29823	42.743393
2083.19	295.3014	89.284373	42.741269
2085.119	295.4674	89.23386	42.752698
2087.048	295.6558	89.201276	42.782304
2088.977	295.8416	89.163685	42.79969
2090.906	296.088	89.157906	42.829095
2092.835	296.3803	89.195752	42.838919
2094.764	296.6364	89.189141	42.846703
2096.693	296.7718	89.155707	42.836144
2098.621	296.9087	89.146088	42.854814
2100.55	296.9895	89.132725	42.876772
2102.479	297.0563	89.140089	42.868934
2104.408	297.0532	89.114434	42.865764
2106.337	297.1564	89.094073	42.905063
2108.266	297.3086	89.103727	42.928341
2110.195	297.4105	89.143422	42.946309
2112.124	297.4369	89.105921	42.932019
2114.052	297.5109	89.079109	42.924288

2115.981	297.5855	89.079651	42.933809
2117.91	297.6252	89.108369	42.944957
2119.839	297.6388	89.096213	42.931821
2121.768	297.6574	89.058157	42.941803
2123.697	297.6669	89.016572	42.944073
2125.626	297.6832	89.049336	42.950008
2127.555	297.6442	89.047345	42.943435
2129.484	297.6168	89.017337	42.974546
2131.412	297.6168	88.983625	42.993529
2133.341	297.5984	88.961352	42.984765
2135.27	297.505	88.901367	42.956561
2137.199	297.4636	88.874827	42.963471
2139.128	297.3909	88.879867	42.946945
2141.057	297.344	88.893936	42.929984
2142.986	297.3055	88.872076	42.941121
2144.915	297.2314	88.819304	42.947452
2146.843	297.1666	88.784514	42.93077
2148.772	297.1956	88.772061	42.940927
2150.701	297.1654	88.74569	42.937833
2152.63	297.1739	88.733869	42.930821
2154.559	297.1502	88.712417	42.928227
2156.488	297.1049	88.667655	42.929202
2158.417	297.0596	88.617149	42.897409
2160.346	297.0733	88.577234	42.896417
2162.274	297.1008	88.555856	42.900033
2164.203	297.0921	88.558321	42.902351
2166.132	297.1651	88.568375	42.885486
2168.061	297.1859	88.586781	42.863781
2169.99	297.1098	88.559566	42.866889
2171.919	297.1718	88.547364	42.887159
2173.848	297.1045	88.51637	42.874738
2175.777	297.0204	88.480546	42.857835
2177.706	296.8998	88.452893	42.847931
2179.634	296.7392	88.444103	42.842154
2181.563	296.5362	88.393378	42.822696
2183.492	296.3338	88.355235	42.832113
2185.421	296.0836	88.312258	42.820016
2187.35	295.8711	88.285232	42.801021
2189.279	295.684	88.269929	42.773981
2191.208	295.5204	88.27972	42.768038
2193.137	295.3402	88.285791	42.765729
2195.065	295.1823	88.294852	42.781878
2196.994	295.0355	88.305363	42.765782

2198.923	294.8582	88.329058	42.750909
2200.852	294.6564	88.358886	42.746846
2202.781	294.5133	88.387253	42.761557
2204.71	294.3749	88.396296	42.7547
2206.639	294.1406	88.398442	42.733776
2208.568	293.8336	88.39647	42.702505
2210.496	293.6347	88.417674	42.704048
2212.425	293.4641	88.431791	42.668673
2214.354	293.2454	88.442405	42.641576
2216.283	293.0341	88.449443	42.629908
2218.212	292.8296	88.455269	42.60482
2220.141	292.6273	88.464389	42.571796
2222.07	292.4404	88.483824	42.561395
2223.999	292.229	88.492259	42.521651
2225.928	292.0776	88.515263	42.501535
2227.856	291.9401	88.550503	42.491588
2229.785	291.8804	88.575113	42.474914
2231.714	291.8225	88.582516	42.449386
2233.643	291.8179	88.6003	42.461735
2235.572	291.8837	88.63617	42.455405
2237.501	292.0276	88.638407	42.443187
2239.43	292.148	88.628708	42.408922
2241.359	292.276	88.601189	42.387772
2243.287	292.4646	88.585976	42.35316
2245.216	292.6476	88.597364	42.314414
2247.145	292.8278	88.602727	42.25848
2249.074	293.0524	88.627152	42.234011
2251.003	293.2732	88.628827	42.216929
2252.932	293.5138	88.618321	42.168951
2254.861	293.7641	88.620502	42.105446
2256.79	293.9285	88.648982	42.085164
2258.718	294.0153	88.658275	42.068926
2260.647	294.1571	88.640921	42.037895
2262.576	294.2432	88.628135	41.997086
2264.505	294.3086	88.651328	41.9638
2266.434	294.3312	88.687861	41.916728
2268.363	294.3528	88.667182	41.888322
2270.292	294.3044	88.639181	41.859402
2272.221	294.29	88.644504	41.826277
2274.15	294.2952	88.615838	41.809484
2276.078	294.3312	88.542387	41.80701
2278.007	294.38	88.486186	41.779138
2279.936	294.4683	88.501797	41.755325

2281.865	294.4874	88.46444	41.711638
2283.794	294.496	88.410094	41.699059
2285.723	294.4664	88.331326	41.651144
2287.652	294.4236	88.210269	41.565213
2289.581	294.329	88.089477	41.455577
2291.509	294.2607	87.960127	41.345379
2293.438	294.2084	87.773145	41.237416
2295.367	294.063	87.563427	41.131347
2297.296	293.8111	87.380335	41.000444
2299.225	293.5815	87.219455	40.886212
2301.154	293.4683	87.065737	40.751945
2303.083	293.4213	86.933267	40.650561
2305.012	293.3484	86.740521	40.497409
2306.94	293.395	86.509087	40.229032
2308.869	293.5359	86.296771	39.948508
2310.798	293.5674	86.074002	39.759719
2312.727	293.4943	85.885396	39.587906
2314.656	293.5503	85.871386	39.450981
2316.585	293.6773	85.773233	39.277882
2318.514	293.7652	85.518448	38.987754
2320.443	293.7302	85.242444	38.599791
2322.372	293.6263	85.049608	38.291876
2324.3	293.5288	85.028427	38.082744
2326.229	293.4535	85.022924	37.979365
2328.158	293.3208	84.802378	37.806819
2330.087	293.1533	84.658892	37.579082
2332.016	292.9047	84.649728	37.459621
2333.945	292.7633	84.795695	37.457018
2335.874	292.7305	84.862683	37.397147
2337.803	292.7264	84.710247	37.279425
2339.731	292.6747	84.626952	37.108061
2341.66	292.549	84.596316	36.897339
2343.589	292.2505	84.441767	36.875065
2345.518	291.8527	84.4966	37.079149
2347.447	291.6941	85.098861	37.636067
2349.376	291.8173	85.273909	37.949984
2351.305	291.8582	84.805842	37.486973
2353.234	291.9395	84.309426	36.802275
2355.162	291.8983	83.834199	36.24459
2357.091	291.9843	83.469191	35.754926
2359.02	291.8896	83.274567	35.559149
2360.949	292.0657	83.128577	35.560505
2362.878	292.4766	83.110252	35.636291

2364.807	292.6905	83.342187	35.858325
2366.736	292.387	83.717914	36.101045
2368.665	292.2412	84.081849	36.374858
2370.594	292.0468	84.435596	36.763556
2372.522	291.7187	84.790161	37.272802
2374.451	291.4071	85.161484	37.731272
2376.38	291.0975	85.578941	38.13828
2378.309	290.7026	85.888903	38.49627
2380.238	290.4522	86.206533	38.834902
2382.167	290.2437	86.586116	39.197455
2384.096	289.9365	86.951358	39.514842
2386.025	289.6242	87.225069	39.70479
2387.953	289.3713	87.318143	39.81233
2389.882	289.0722	87.351779	39.845566
2391.811	288.7988	87.369202	39.795851
2393.74	288.5263	87.351723	39.724549
2395.669	288.2092	87.358138	39.673438
2397.598	287.9126	87.374995	39.632974
2399.527	287.6736	87.409354	39.595215
2401.456	287.4188	87.426954	39.5375
2403.384	287.1952	87.436752	39.521478
2405.313	286.8476	87.455682	39.50836
2407.242	286.3857	87.459876	39.448655
2409.171	285.8277	87.452665	39.373371
2411.1	285.4392	87.474478	39.310541
2413.029	285.2663	87.501082	39.23951
2414.958	285.2079	87.494891	39.204637
2416.887	285.1865	87.473382	39.161436
2418.816	285.1295	87.470975	39.113921
2420.744	285.0429	87.437846	39.044691
2422.673	284.9482	87.371637	38.961148
2424.602	284.7388	87.353631	38.878576
2426.531	284.4907	87.355443	38.832981
2428.46	284.25	87.305718	38.780078
2430.389	284.0148	87.243677	38.690565
2432.318	283.7	87.21811	38.589131
2434.247	283.4157	87.196573	38.528333
2436.175	283.1837	87.131702	38.471176
2438.104	282.9848	87.079523	38.40452
2440.033	282.839	87.061849	38.326214
2441.962	282.7359	87.024365	38.269467
2443.891	282.5985	86.984265	38.200724
2445.82	282.4194	86.973661	38.114589

2447.749	282.2636	86.962802	38.030185
2449.678	282.0617	86.939901	37.956898
2451.606	281.8336	86.916129	37.890148
2453.535	281.6725	86.937205	37.804289
2455.464	281.5704	86.935186	37.711207
2457.393	281.4106	86.883896	37.665506
2459.322	281.2455	86.874249	37.623603
2461.251	281.1667	86.869946	37.565524
2463.18	281.0558	86.84633	37.475075
2465.109	280.8957	86.801454	37.387576
2467.038	280.6644	86.773506	37.321393
2468.966	280.3559	86.779437	37.258853
2470.895	280.0171	86.795415	37.201319
2472.824	279.7445	86.789288	37.152861
2474.753	279.4165	86.790085	37.066453
2476.682	279.1638	86.801375	36.981384
2478.611	279.1139	86.791616	36.894518
2480.54	279.1589	86.800233	36.845672
2482.469	279.148	86.851015	36.781399
2484.397	279.1236	86.932496	36.70818
2486.326	279.1132	87.03616	36.615631
2488.255	279.0465	87.100945	36.520054
2490.184	278.9725	87.137602	36.448687
2492.113	278.9944	87.142586	36.381578
2494.042	278.9758	87.109883	36.318959
2495.971	278.8154	87.103982	36.28348
2497.9	278.6391	87.139653	36.19323
2499.828	278.4987	87.13918	36.088441
2501.757	278.3381	87.107204	36.031937
2503.686	278.1323	87.066815	36.000772
2505.615	277.827	87.068902	35.933575
2507.544	277.4603	87.089449	35.86324
2509.473	277.065	87.082691	35.799992
2511.402	276.5892	87.071299	35.748287
2513.331	275.9265	87.09682	35.664024
2515.26	275.2636	87.090386	35.604509
2517.188	274.6278	87.067499	35.532338
2519.117	273.8783	87.045772	35.453218
2521.046	273.0648	87.064063	35.362023
2522.975	272.3104	87.083766	35.293301
2524.904	271.7659	87.078942	35.257305
2526.833	271.3792	87.06686	35.228944
2528.762	271.0814	87.047577	35.189184

2530.691	270.8373	87.041842	35.169696
2532.619	270.6969	87.035001	35.120297
2534.548	270.7493	87.033814	35.073328
2536.477	270.8757	87.032083	35.006226
2538.406	270.9134	87.024556	34.962089
2540.335	270.9041	87.020938	34.9138
2542.264	270.9624	87.023772	34.878543
2544.193	270.9081	87.01638	34.834953
2546.122	270.7072	86.994299	34.798882
2548.05	270.4522	87.010876	34.782637
2549.979	270.2247	87.028391	34.764011
2551.908	269.9157	87.018555	34.720348
2553.837	269.5359	86.978064	34.658675
2555.766	269.166	86.989611	34.590232
2557.695	268.9302	87.003972	34.541723
2559.624	268.7359	86.996754	34.494354
2561.553	268.6434	86.950774	34.442724
2563.482	268.7361	86.919656	34.405031
2565.41	268.9127	86.931075	34.366765
2567.339	269.1511	86.971298	34.315685
2569.268	269.4802	86.985652	34.276787
2571.197	269.86	86.948585	34.268099
2573.126	270.3343	86.917819	34.234048
2575.055	270.7603	86.882313	34.158763
2576.984	271.1194	86.880399	34.116881
2578.913	271.3282	86.901227	34.07153
2580.841	271.2707	86.883716	34.022124
2582.77	270.9973	86.875311	33.953898
2584.699	270.5018	86.875427	33.908759
2586.628	269.8613	86.84132	33.880023
2588.557	269.2829	86.808285	33.837096
2590.486	268.8203	86.810717	33.768314
2592.415	268.4173	86.816201	33.701142
2594.344	268.0446	86.84169	33.628513
2596.272	267.784	86.812053	33.581955
2598.201	267.662	86.769957	33.545771
2600.13	267.5628	86.737111	33.521377
2602.059	267.5802	86.701258	33.473677
2603.988	267.8076	86.661109	33.427672
2605.917	268.051	86.639814	33.389222
2607.846	268.2464	86.644307	33.349028
2609.775	268.3358	86.636181	33.27054
2611.704	268.392	86.588777	33.215859

2613.632	268.4862	86.50856	33.216173
2615.561	268.537	86.433253	33.20578
2617.49	268.471	86.365104	33.169696
2619.419	268.3792	86.315787	33.134456
2621.348	268.3326	86.274059	33.100044
2623.277	268.3189	86.200558	33.059237
2625.206	268.3509	86.105702	33.01251
2627.135	268.3927	86.022896	32.968098
2629.063	268.4325	85.987504	32.911982
2630.992	268.4553	85.967561	32.860577
2632.921	268.4643	85.946228	32.827062
2634.85	268.3571	85.940925	32.816878
2636.779	268.1015	85.92701	32.777431
2638.708	267.7552	85.921649	32.73451
2640.637	267.3223	85.999452	32.700696
2642.566	266.8506	86.074085	32.653573
2644.494	266.4737	86.100037	32.610709
2646.423	266.1998	86.145776	32.562364
2648.352	266.1065	86.218184	32.5141
2650.281	266.1959	86.27182	32.46577
2652.21	266.4391	86.245607	32.42719
2654.139	266.7933	86.22066	32.389995
2656.068	267.2129	86.278291	32.344548
2657.997	267.6751	86.298727	32.299619
2659.926	268.0739	86.259734	32.255334
2661.854	268.3796	86.224264	32.193376
2663.783	268.5385	86.174105	32.101292
2665.712	268.5094	86.120387	32.02628
2667.641	268.3355	86.125635	31.956185
2669.57	268.0632	86.054932	31.904047
2671.499	267.6539	85.987323	31.841399
2673.428	267.2925	85.929096	31.790267
2675.357	267.0269	85.823192	31.712131
2677.285	266.769	85.719895	31.621197
2679.214	266.4591	85.681309	31.552724
2681.143	266.2182	85.675033	31.487716
2683.072	266.0226	85.675091	31.409585
2685.001	265.7657	85.670848	31.358006
2686.93	265.5577	85.672138	31.302543
2688.859	265.4103	85.663728	31.236968
2690.788	265.3053	85.669843	31.172234
2692.716	265.3586	85.64398	31.094385
2694.645	265.5112	85.621445	31.028452

2696.574	265.7846	85.592499	30.961838
2698.503	266.0981	85.617441	30.869381
2700.432	266.3133	85.62933	30.793822
2702.361	266.4127	85.596058	30.688622
2704.29	266.3125	85.610512	30.588426
2706.219	266.109	85.646389	30.495559
2708.148	265.8641	85.617811	30.398403
2710.076	265.5209	85.611562	30.298089
2712.005	265.1586	85.658776	30.202227
2713.934	264.8001	85.709153	30.096463
2715.863	264.4609	85.720608	30.01622
2717.792	264.2112	85.731196	29.942536
2719.721	264.06	85.743819	29.857743
2721.65	263.8565	85.775255	29.738963
2723.579	263.5271	85.751566	29.620097
2725.507	263.2394	85.687067	29.514209
2727.436	262.9085	85.724794	29.464454
2729.365	262.4242	85.772901	29.400778
2731.294	261.9488	85.744948	29.322275
2733.223	261.5102	85.730934	29.242783
2735.152	261.0747	85.701454	29.143317
2737.081	260.6713	85.679587	29.061104
2739.01	260.3371	85.670561	28.994739
2740.938	260.0971	85.653724	28.903193
2742.867	259.8758	85.617508	28.827615
2744.796	259.6298	85.606136	28.749259
2746.725	259.3843	85.598754	28.666975
2748.654	259.2592	85.604195	28.565828
2750.583	259.1398	85.590726	28.510563
2752.512	258.9178	85.643811	28.463349
2754.441	258.7396	85.653202	28.387688
2756.37	258.6376	85.655366	28.280458
2758.298	258.6449	85.622436	28.187069
2760.227	258.7543	85.642214	28.126316
2762.156	258.8906	85.695216	28.077021
2764.085	259.1373	85.67935	28.007054
2766.014	259.3967	85.595125	27.949601
2767.943	259.5481	85.53562	27.883397
2769.872	259.6511	85.535564	27.796609
2771.801	259.7295	85.523079	27.70231
2773.729	259.7006	85.426099	27.621004
2775.658	259.5539	85.38802	27.54481
2777.587	259.3191	85.443196	27.481477

2779.516	259.0199	85.473726	27.414449
2781.445	258.7489	85.446953	27.336064
2783.374	258.5251	85.387196	27.252593
2785.303	258.232	85.335327	27.141679
2787.232	258.0283	85.249921	27.02924
2789.16	258.0073	85.112941	26.928189
2791.089	257.9661	85.066455	26.844411
2793.018	257.8551	85.024705	26.772725
2794.947	257.7752	84.966796	26.690461
2796.876	257.755	84.907437	26.614137
2798.805	257.8271	84.90509	26.522824
2800.734	258.0224	84.919472	26.455875
2802.663	258.2655	84.882565	26.383109
2804.592	258.5223	84.82543	26.30786
2806.52	258.8638	84.804085	26.180881
2808.449	259.1151	84.751356	26.042702
2810.378	259.176	84.691167	25.943046
2812.307	259.1793	84.661224	25.825525
2814.236	259.0247	84.660712	25.719876
2816.165	258.5976	84.60447	25.664689
2818.094	257.9973	84.527396	25.581696
2820.023	257.4596	84.436198	25.489651
2821.951	256.8741	84.379247	25.379233
2823.88	256.203	84.302503	25.298385
2825.809	255.6347	84.26193	25.207242
2827.738	255.1842	84.174204	25.121716
2829.667	254.7675	84.078704	25.022668
2831.596	254.4814	84.003453	24.891645
2833.525	254.3588	83.918339	24.769805
2835.454	254.3821	83.796665	24.671067
2837.382	254.4077	83.649888	24.55311
2839.311	254.3548	83.488538	24.465552
2841.24	254.1197	83.393088	24.368983
2843.169	253.877	83.28433	24.257433
2845.098	253.6464	83.1167	24.14097
2847.027	253.5008	82.961027	24.033721
2848.956	253.2942	82.868021	23.88717
2850.885	252.8696	82.755724	23.774642
2852.814	252.4448	82.53972	23.685208
2854.742	252.0865	82.261827	23.570876
2856.671	251.8337	82.056146	23.492063
2858.6	251.5879	81.94356	23.405633
2860.529	251.2749	81.964499	23.262899

2862.458	250.9305	82.026966	23.122743
2864.387	250.619	82.070724	22.978705
2866.316	250.2583	82.121935	22.853183
2868.245	249.8512	82.182942	22.748843
2870.173	249.5779	82.141126	22.645356
2872.102	249.4304	82.037543	22.500815
2874.031	249.1885	81.997254	22.387061
2875.96	248.7823	82.035926	22.291624
2877.889	248.3772	81.982601	22.221303
2879.818	248.0886	81.864478	22.133256
2881.747	247.9902	81.748166	22.023868
2883.676	247.9392	81.628767	21.906123
2885.604	247.8518	81.506269	21.801484
2887.533	247.6794	81.348018	21.71936
2889.462	247.3223	81.14151	21.640779
2891.391	246.8101	80.983526	21.524555
2893.32	246.3449	80.751186	21.449044
2895.249	245.8701	80.549364	21.388404
2897.178	245.2878	80.430552	21.308675
2899.107	244.7524	80.312406	21.216994
2901.036	244.4865	80.13558	21.157804
2902.964	244.4723	79.976181	21.080211
2904.893	244.6079	79.754346	21.001036
2906.822	244.6865	79.4864	20.954172
2908.751	244.8393	79.107323	20.916317
2910.68	245.0137	78.648541	20.855842
2912.609	245.0251	78.133479	20.778963
2914.538	244.9027	77.653922	20.697578
2916.467	244.6566	77.281967	20.636629
2918.395	244.3017	76.93863	20.592057
2920.324	243.8182	76.479375	20.564563
2922.253	243.1942	75.961423	20.481474
2924.182	242.6637	75.721151	20.436709
2926.111	242.1429	75.984688	20.446164
2928.04	241.6149	76.58115	20.427656
2929.969	241.1044	77.190313	20.367334
2931.898	240.5112	77.561013	20.301611
2933.826	239.8654	77.69339	20.270317
2935.755	239.2234	77.677715	20.241144
2937.684	238.583	77.523225	20.222219
2939.613	237.9504	77.219762	20.177654
2941.542	237.4263	76.836815	20.123957
2943.471	236.9278	76.331425	20.131005

2945.4	236.4392	75.931507	20.153617
2947.329	236.023	75.7566	20.130871
2949.258	235.6469	75.789484	20.087662
2951.186	235.2063	75.873466	20.060056
2953.115	234.7205	75.946236	20.022076
2955.044	234.3093	76.030704	20.025293
2956.973	234.0241	76.110729	20.028804
2958.902	233.8661	76.126479	20.010687
2960.831	233.7382	76.091808	19.976968
2962.76	233.5831	75.94615	19.94011
2964.689	233.3865	75.784997	19.928248
2966.617	233.1684	75.620637	19.897021
2968.546	232.848	75.414225	19.868533
2970.475	232.4634	75.154468	19.850368
2972.404	232.0264	74.878106	19.830963
2974.333	231.5787	74.63365	19.8122
2976.262	231.0187	74.425027	19.760167
2978.191	230.5691	74.22423	19.7527
2980.12	230.1078	74.021526	19.757757
2982.048	229.5374	73.790729	19.731123
2983.977	228.9801	73.596889	19.682598
2985.906	228.4083	73.357907	19.696829
2987.835	227.816	73.09471	19.704286
2989.764	227.3219	72.745377	19.655223
2991.693	226.787	72.303498	19.624931
2993.622	226.1953	71.841197	19.615753
2995.551	225.5496	71.411394	19.599299
2997.48	224.9547	70.967582	19.59235
2999.408	224.2228	70.523491	19.586451
3001.337	223.4341	70.128158	19.584716
3003.266	222.6688	69.798985	19.558462
3005.195	221.9682	69.518462	19.539015
3007.124	221.4547	69.329354	19.520905
3009.053	221.1569	69.169081	19.495862
3010.982	220.7701	68.938041	19.448319
3012.911	220.2447	68.612363	19.418064
3014.839	219.6205	68.29123	19.375521
3016.768	218.9549	67.980129	19.363146
3018.697	218.3702	67.650355	19.366438
3020.626	217.8783	67.207029	19.344029
3022.555	217.3573	66.783091	19.297781
3024.484	216.8189	66.34938	19.245577
3026.413	216.3334	65.846312	19.22598

3028.342	216.049	65.336446	19.23834
3030.27	215.8805	64.79291	19.199856
3032.199	215.8304	64.212965	19.108709
3034.128	215.8315	63.69869	19.074772
3036.057	215.8048	63.192115	19.099067
3037.986	215.9292	62.67117	19.095822
3039.915	216.3931	62.116259	19.095277
3041.844	216.9756	61.544935	19.127958
3043.773	217.511	60.964037	19.157937
3045.702	218.0246	60.35868	19.185066
3047.63	218.6423	59.696919	19.212727
3049.559	219.4102	59.03839	19.173242
3051.488	220.0793	58.376705	19.147392
3053.417	220.7358	57.671231	19.151764
3055.346	221.5016	56.947893	19.178221
3057.275	222.1903	56.228208	19.18085
3059.204	222.7469	55.523321	19.208862
3061.133	223.3593	54.798556	19.241991
3063.061	224.0848	54.070085	19.237297
3064.99	224.8098	53.299344	19.232591
3066.919	225.484	52.583635	19.273955
3068.848	225.8964	51.875411	19.305838
3070.777	226.2726	51.187047	19.331042
3072.706	226.7702	50.534447	19.372591
3074.635	227.358	49.905851	19.389208
3076.564	228.0212	49.342897	19.372616
3078.492	228.5921	48.770063	19.367347
3080.421	229.0062	48.204028	19.40214
3082.35	229.3664	47.71744	19.453399
3084.279	229.6865	47.244963	19.491604
3086.208	229.9568	46.806791	19.536335
3088.137	230.2031	46.37953	19.55537
3090.066	230.4439	46.002633	19.599987
3091.995	230.6192	45.666896	19.696252
3093.924	230.8916	45.362972	19.777334
3095.852	231.2856	45.08768	19.812615
3097.781	231.7919	44.936121	19.866422
3099.71	232.2449	44.779643	19.901269
3101.639	232.5264	44.660054	19.930462
3103.568	232.7474	44.623469	19.968425
3105.497	233.0514	44.631616	20.014478
3107.426	233.5194	44.656872	20.008301
3109.355	233.8065	44.756477	20.006725

3111.283	233.9372	44.858373	20.024618
3113.212	234.2908	44.938656	20.048323
3115.141	234.6953	45.057367	20.085528
3117.07	234.9917	45.237507	20.10995
3118.999	235.2114	45.381842	20.121949
3120.928	235.2734	45.503767	20.196024
3122.857	235.1646	45.597343	20.302336
3124.786	235.0897	45.742787	20.367545
3126.714	235.2237	45.9158	20.400024
3128.643	235.4751	46.091819	20.498756
3130.572	235.5002	46.198882	20.610786
3132.501	235.4078	46.267685	20.633442
3134.43	235.4732	46.339443	20.653916
3136.359	235.7089	46.398321	20.714386
3138.288	235.9516	46.431592	20.745418
3140.217	235.9436	46.444459	20.779689
3142.146	235.8409	46.379356	20.809338
3144.074	236.0256	46.318452	20.827748
3146.003	236.2269	46.207097	20.879229
3147.932	236.354	46.051252	20.922714
3149.861	236.6732	45.922828	20.933496
3151.79	237.1442	45.736158	20.951184
3153.719	237.2622	45.51965	20.982791
3155.648	237.2533	45.315294	21.031132
3157.577	237.4189	45.075138	21.077954
3159.505	237.7121	44.850996	21.077017
3161.434	237.9607	44.596494	21.085565
3163.363	238.2017	44.351321	21.115345
3165.292	238.49	44.162585	21.160712
3167.221	238.8537	43.955506	21.215562
3169.15	239.2333	43.738626	21.235147
3171.079	239.5747	43.56019	21.22343
3173.008	239.8209	43.385788	21.25889
3174.936	240.1219	43.22189	21.284651
3176.865	240.4838	43.042229	21.309351
3178.794	240.7831	42.935864	21.332447
3180.723	241.1299	42.845109	21.38463
3182.652	241.5632	42.720494	21.419893
3184.581	241.8478	42.616701	21.430826
3186.51	242.0504	42.571216	21.450597
3188.439	242.2762	42.514522	21.482266
3190.368	242.4817	42.426313	21.481427
3192.296	242.6503	42.382866	21.468577

3194.225	242.7767	42.378109	21.50008
3196.154	242.8942	42.340309	21.518997
3198.083	243.0027	42.27463	21.509598
3200.012	243.0695	42.244466	21.529585
3201.941	243.1903	42.255789	21.540173
3203.87	243.2304	42.254925	21.540932
3205.799	243.2877	42.262981	21.5468
3207.727	243.4226	42.279812	21.564729
3209.656	243.4436	42.293739	21.596476
3211.585	243.3925	42.327949	21.613422
3213.514	243.5084	42.421084	21.614753
3215.443	243.7018	42.506236	21.64578
3217.372	243.8536	42.658383	21.647551
3219.301	243.8986	42.822667	21.661216
3221.23	243.8663	43.006106	21.700788
3223.158	243.9082	43.190948	21.735948
3225.087	244.2271	43.397234	21.772918
3227.016	244.4919	43.616295	21.780514
3228.945	244.696	43.879719	21.757507
3230.874	244.9805	44.115503	21.743167
3232.803	245.2773	44.32453	21.729629
3234.732	245.5412	44.606243	21.755494
3236.661	245.9243	44.93326	21.783247
3238.59	246.3701	45.265714	21.825467
3240.518	246.7914	45.572359	21.854734
3242.447	247.0604	45.89127	21.864305
3244.376	247.3051	46.19469	21.859964
3246.305	247.5913	46.564672	21.856452
3248.234	247.8554	47.086427	21.899823
3250.163	248.2113	47.549769	21.930529
3252.092	248.5139	47.965792	21.948049
3254.021	248.7262	48.347831	21.949484
3255.949	249.0366	48.855657	21.951906
3257.878	249.5485	49.40109	22.023705
3259.807	250.1217	49.942207	22.050314
3261.736	250.5987	50.459536	22.032425
3263.665	251.0891	50.992261	22.004686
3265.594	251.6732	51.529142	21.99107
3267.523	252.1378	52.088777	22.021098
3269.452	252.5053	52.635114	22.078077
3271.38	252.9052	53.180263	22.038766
3273.309	253.2625	53.718043	21.987451
3275.238	253.5363	54.271422	21.965188

3277.167	253.8141	54.899849	22.003836
3279.096	253.9962	55.571507	22.022543
3281.025	254.2363	56.19074	22.048358
3282.954	254.3645	56.739653	22.033694
3284.883	254.3152	57.303473	22.011275
3286.812	254.2803	57.866447	21.98424
3288.74	254.3529	58.425549	21.936695
3290.669	254.4213	58.999189	21.900466
3292.598	254.3505	59.522414	21.877258
3294.527	254.2016	60.120218	21.834249
3296.456	254.256	60.732068	21.821538
3298.385	254.4046	61.317196	21.80302
3300.314	254.4142	61.894112	21.753711
3302.243	254.3119	62.331747	21.695169
3304.171	254.2586	62.692126	21.654585
3306.1	254.2687	63.100673	21.605753
3308.029	254.2965	63.512633	21.487028
3309.958	254.422	63.996949	21.410327
3311.887	254.6093	64.498641	21.408958
3313.816	254.5232	64.882019	21.357444
3315.745	254.4174	65.206263	21.330938
3317.674	254.4256	65.50767	21.299438
3319.602	254.4897	65.813282	21.225673
3321.531	254.4226	65.991481	21.087643
3323.46	254.2716	66.108484	20.967527
3325.389	254.1308	66.176951	20.857366
3327.318	254.1448	66.366917	20.778993
3329.247	254.1051	66.502675	20.72519
3331.176	253.9295	66.573201	20.64227
3333.105	253.6294	66.62685	20.554781
3335.034	253.3582	66.574925	20.489082
3336.962	253.0665	66.429783	20.384489
3338.891	252.7168	66.528124	20.300728
3340.82	252.4276	66.692719	20.234861
3342.749	252.1413	66.785258	20.151113
3344.678	251.7625	66.980983	20.051779
3346.607	251.3214	67.154355	19.952923
3348.536	250.7107	67.157782	19.842894
3350.465	250.0125	67.177161	19.773819
3352.393	249.2673	67.295355	19.738858
3354.322	248.5366	67.390058	19.652655
3356.251	247.6791	67.366258	19.553698
3358.18	246.7119	67.339831	19.456326

3360.109	245.7532	67.214728	19.301443
3362.038	244.6455	67.133185	19.243456
3363.967	243.5552	67.060685	19.214605
3365.896	242.5589	66.87573	19.09759
3367.824	241.671	66.68894	18.987149
3369.753	240.7582	66.629173	18.868059
3371.682	239.7523	66.642397	18.796818
3373.611	238.9591	66.586455	18.787019
3375.54	238.4873	66.437448	18.72118
3377.469	238.1856	66.337401	18.620135
3379.398	238.1097	66.216877	18.566369
3381.327	238.0521	66.095009	18.532639
3383.256	238.151	65.917839	18.431905
3385.184	238.4814	65.757733	18.37828
3387.113	238.9589	65.558202	18.305552
3389.042	239.6833	65.39164	18.205528
3390.971	240.4577	65.200238	18.167841
3392.9	241.0791	64.983022	18.113278
3394.829	241.6017	64.903546	18.082759
3396.758	242.1188	64.718142	18.009358
3398.687	242.8528	64.541569	17.977781
3400.615	243.5489	64.484724	18.00879
3402.544	243.9822	64.41636	17.968142
3404.473	244.2193	64.315174	17.905351
3406.402	244.6434	64.151188	17.88329
3408.331	245.1497	64.036232	17.875245
3410.26	245.4914	63.915878	17.845132
3412.189	245.8971	63.761248	17.811606
3414.118	246.2322	63.655941	17.72663
3416.046	246.4599	63.603271	17.700183
3417.975	246.7476	63.529499	17.776043
3419.904	247.0658	63.339743	17.763345
3421.833	247.3824	63.213072	17.680524
3423.762	247.7377	63.283428	17.69619
3425.691	248.1092	63.227222	17.719904
3427.62	248.5316	63.082449	17.74217
3429.549	249.0066	63.027453	17.815928
3431.478	249.451	62.969414	17.839439
3433.406	249.928	62.92484	17.803421
3435.335	250.2978	62.91677	17.819744
3437.264	250.4854	62.903407	17.824623
3439.193	250.6635	62.934966	17.804283
3441.122	251.0331	62.880311	17.853342

3443.051	251.5162	62.777175	17.917598
3444.98	252.0082	62.767209	17.900203
3446.909	252.4925	62.640883	17.859355
3448.837	252.9808	62.723334	17.928103
3450.766	253.4557	62.936535	18.025428
3452.695	254.0379	62.960147	18.123079
3454.624	254.5377	62.931911	18.161848
3456.553	254.9593	62.927905	18.185818
3458.482	255.5271	62.943169	18.256715
3460.411	256.011	62.95031	18.338286
3462.34	256.3603	62.961473	18.419409
3464.268	256.9742	63.032032	18.504405
3466.197	257.6879	63.128468	18.553683
3468.126	258.3199	63.17975	18.612187
3470.055	258.6593	63.282076	18.692563
3471.984	258.9268	63.326717	18.748078
3473.913	259.2898	63.362414	18.819462
3475.842	259.6984	63.391206	18.883692
3477.771	260.2367	63.504072	19.004307
3479.7	260.75	63.445289	19.129251
3481.628	261.0786	63.415075	19.211535
3483.557	261.4451	63.596351	19.292797
3485.486	261.9553	63.728097	19.408347
3487.415	262.3818	63.68861	19.463548
3489.344	262.7629	63.788145	19.517529
3491.273	263.2834	64.012519	19.641249
3493.202	263.6826	64.132243	19.757422
3495.131	264.0867	64.131432	19.810133
3497.059	264.5561	64.201654	19.886981
3498.988	264.9904	64.381275	20.035722
3500.917	265.3722	64.333172	20.129213
3502.846	265.6259	64.057235	20.155842
3504.775	265.8901	64.216376	20.342829
3506.704	266.3894	64.696989	20.494429
3508.633	266.7956	64.765178	20.532624
3510.562	267.192	64.672597	20.681313
3512.49	267.6283	65.001629	20.836682
3514.419	267.9572	65.274586	20.894881
3516.348	268.2524	65.378419	20.986943
3518.277	268.5892	65.466215	21.114307
3520.206	268.8676	65.521916	21.25953
3522.135	269.245	65.336544	21.327154
3524.064	269.6516	65.104686	21.373196

3525.993	269.7909	65.303704	21.51398
3527.922	269.8946	65.528875	21.686115
3529.85	270.2684	65.827109	21.926849
3531.779	270.7203	66.20308	22.106339
3533.708	271.1475	66.534626	22.22547
3535.637	271.4725	66.524804	22.276996
3537.566	271.7693	66.660752	22.407664
3539.495	272.0928	67.093133	22.675726
3541.424	272.408	67.227194	22.80757
3543.353	272.8412	66.969263	22.815758
3545.281	273.0443	66.590713	22.800699
3547.21	273.2841	66.837648	23.015152
3549.139	273.5974	67.626609	23.323732
3551.068	273.7905	68.025685	23.457419
3552.997	273.981	67.951681	23.546964
3554.926	274.3638	68.314898	23.826262
3556.855	274.6428	68.791122	24.090929
3558.784	274.999	69.005793	24.248044
3560.712	275.3107	69.004868	24.322313
3562.641	275.5964	69.21364	24.497634
3564.57	275.9026	69.234989	24.626548
3566.499	275.942	68.623965	24.631122
3568.428	276.1113	68.789576	24.856488
3570.357	276.6155	70.043026	25.258019
3572.286	276.9748	70.835969	25.531186
3574.215	277.2664	71.148617	25.715641
3576.144	277.5636	71.370107	25.874952
3578.072	277.9205	71.676331	26.10262
3580.001	278.344	71.87675	26.300224
3581.93	278.619	72.169042	26.474838
3583.859	278.8368	72.397304	26.665595
3585.788	279.1004	72.309733	26.757012
3587.717	279.1911	71.837069	26.658849
3589.646	279.5106	72.565998	27.143629
3591.575	279.9836	73.550829	27.555714
3593.503	280.2909	73.791524	27.651819
3595.432	280.5287	73.760319	27.830642
3597.361	280.7758	74.189364	28.171753
3599.29	281.0185	74.616086	28.370293
3601.219	281.2854	74.950064	28.564255
3603.148	281.6759	75.501706	28.911605
3605.077	281.9941	76.06531	29.179172
3607.006	282.1233	76.150009	29.252324

3608.934	282.3126	76.140902	29.441375
3610.863	282.6725	76.574449	29.851247
3612.792	283.0026	76.744772	30.013102
3614.721	282.9874	76.968047	30.286364
3616.65	282.9143	77.698415	30.609997
3618.579	282.7777	77.699972	30.679919
3620.508	283.0823	77.881668	30.858285
3622.437	283.6646	78.92655	31.234618
3624.366	284.0783	79.723678	31.496795
3626.294	284.2589	79.889864	31.673611
3628.223	284.1382	79.458816	31.681563
3630.152	284.1897	79.197954	31.941284
3632.081	284.724	80.487364	32.480103
3634.01	285.0056	81.217251	32.585299
3635.939	285.282	81.885247	32.881933
3637.868	285.405	82.334684	33.13497
3639.797	285.5198	82.651874	33.359913
3641.725	285.7216	82.835082	33.551547
3643.654	285.8371	83.053173	33.724884
3645.583	285.775	83.135872	33.913351
3647.512	285.5577	82.305178	33.951844
3649.441	285.2264	81.37672	33.956024
3651.37	285.629	82.152612	34.407796
3653.299	286.2316	83.980464	34.825971
3655.228	286.3808	84.520014	34.905965
3657.156	286.4787	84.414531	34.974338
3659.085	286.8533	85.013121	35.237084
3661.014	287.0543	85.618881	35.319912
3662.943	287.207	86.020877	35.510652
3664.872	287.2138	86.25091	35.742221
3666.801	287.2639	86.351857	35.941413
3668.73	287.1439	85.886777	35.917994
3670.659	286.964	85.103457	35.741014
3672.588	287.2417	85.76603	36.225792
3674.516	287.2874	85.908342	36.359035
3676.445	287.0644	85.245016	36.194816
3678.374	287.5398	86.013463	36.618044
3680.303	287.7012	86.735796	36.689417
3682.232	287.9634	87.281547	36.815648
3684.161	288.0698	87.510626	36.799845
3686.09	288.089	87.422087	36.844153
3688.019	288.1332	86.875507	36.785439
3689.947	287.9973	86.067917	36.577561

3691.876	288.0112	86.3795	36.758368
3693.805	288.1897	87.287704	37.043253
3695.734	288.2399	87.800353	37.056883
3697.663	288.354	88.122511	37.073419
3699.592	288.4811	88.284894	37.223645
3701.521	288.5398	88.026662	37.166032
3703.45	288.4769	87.870871	37.202948
3705.378	288.6042	88.187339	37.339321
3707.307	288.7726	88.284674	37.348716
3709.236	288.6719	87.908327	37.247277
3711.165	288.3761	86.992902	36.99301
3713.094	288.6093	87.030669	37.272686
3715.023	288.9893	87.867418	37.470354
3716.952	289.0916	88.512762	37.417806
3718.881	288.9182	88.480567	37.345029
3720.81	289.039	88.133386	37.347719
3722.738	289.1142	87.588129	37.220184
3724.667	289.134	87.39383	37.204262
3726.596	288.9941	87.297416	37.182509
3728.525	289.1052	87.799495	37.303052
3730.454	289.354	88.304266	37.394653
3732.383	289.2781	87.777215	37.256496
3734.312	288.834	86.761582	37.121334
3736.241	288.7343	85.930149	37.048886
3738.169	289.1464	86.643045	37.329201
3740.098	289.4164	87.550759	37.363412
3742.027	289.5855	87.89841	37.435408
3743.956	289.5967	88.028543	37.453258
3745.885	289.0683	87.42967	37.488779
3747.814	289.2415	87.654343	37.721578
3749.743	288.8914	87.221459	37.544629
3751.672	288.7692	86.237571	37.256579
3753.6	289.2063	87.159351	37.44684
3755.529	289.4605	88.308627	37.582034
3757.458	289.4103	88.57782	37.575107
3759.387	289.3063	88.306642	37.502926
3761.316	289.3947	88.479968	37.552912
3763.245	289.615	89.014325	37.663956
3765.174	289.5507	88.892198	37.540463
3767.103	289.4298	88.711086	37.62541
3769.032	289.3587	88.783786	37.579126
3770.96	289.4843	88.60523	37.437132
3772.889	289.6962	89.032942	37.708546

3774.818	289.6717	89.515445	37.729724
3776.747	289.7331	89.498084	37.606868
3778.676	289.7954	89.020382	37.460221
3780.605	289.6102	88.75284	37.517918
3782.534	289.6464	89.193757	37.672818
3784.463	289.5576	89.074491	37.493088
3786.391	289.6169	88.803162	37.473241
3788.32	289.8682	89.176505	37.514785
3790.249	289.9279	89.331835	37.520534
3792.178	289.8556	89.425544	37.558489
3794.107	289.8849	89.525421	37.616247
3796.036	289.9166	89.214253	37.517515
3797.965	289.9594	88.742362	37.523329
3799.894	289.7597	88.846242	37.594365
3801.822	289.3893	88.143936	37.208716
3803.751	289.5882	88.131268	37.543717
3805.68	289.7992	88.95541	37.692888
3807.609	289.7166	88.713244	37.471093
3809.538	289.928	88.987523	37.558385
3811.467	289.8811	89.46167	37.526976
3813.396	289.8808	89.511245	37.539818
3815.325	289.925	89.020718	37.449494
3817.254	289.9484	88.247458	37.378793
3819.182	289.9235	88.323242	37.372846
3821.111	289.5005	87.881038	37.076545
3823.04	289.5201	87.826236	37.508769
3824.969	289.7792	88.731644	37.527615
3826.898	289.7702	88.855219	37.233824
3828.827	290.0324	89.043388	37.266184
3830.756	290.1458	89.284554	37.287605
3832.685	289.9467	88.890364	37.263947
3834.613	289.7382	88.598672	37.170409
3836.542	289.6383	88.231437	37.120329
3838.471	289.4639	87.492365	37.100161
3840.4	289.6316	87.214344	37.131217
3842.329	289.7784	88.12855	37.239338
3844.258	289.8478	88.558758	37.140677
3846.187	289.9174	88.972771	37.202852
3848.116	289.9826	89.346764	37.304353
3850.044	289.9529	88.964091	37.277087
3851.973	289.8014	88.15956	37.282051
3853.902	289.2799	87.040906	36.988443
3855.831	289.587	87.279656	37.426852

3857.76	289.8678	88.328687	37.219847
3859.689	290.044	89.101831	37.208223
3861.618	290.0134	89.009298	37.1063
3863.547	289.9887	88.450597	36.896505
3865.476	289.7506	88.153064	36.729148
3867.404	289.8074	88.780452	37.051468
3869.333	289.6887	88.69895	36.953894
3871.262	289.6642	87.86556	36.955342
3873.191	289.903	88.501922	37.0495
3875.12	290.0651	88.723164	36.831545
3877.049	290.1894	89.305898	37.062378
3878.978	290.1974	89.555692	37.049088
3880.907	289.8446	88.730788	36.750559
3882.835	289.7284	88.33098	36.842214
3884.764	289.8078	88.46511	36.820312
3886.693	289.9065	88.420628	36.886838
3888.622	289.9739	89.14332	37.203599
3890.551	289.895	89.191051	36.982307
3892.48	289.8214	88.331825	36.729296
3894.409	290.0694	88.650062	36.938321
3896.338	290.1699	89.319575	36.938475
3898.266	290.0959	89.105555	36.806532
3900.195	289.9243	88.385428	36.67805
3902.124	289.8437	88.178592	36.83313
3904.053	289.5749	87.938715	36.681606
3905.982	289.7619	88.071743	36.755464
3907.911	290.0705	89.023315	36.901775
3909.84	290.2022	89.539767	36.960729
3911.769	290.159	89.590353	36.875489
3913.698	290.1067	89.710627	36.861459
3915.626	289.9806	89.505939	36.787685
3917.555	289.9873	88.838488	36.647201
3919.484	289.9505	88.852484	36.734389
3921.413	289.9158	89.15613	36.768743
3923.342	289.9685	89.029465	36.725075
3925.271	289.8327	88.664314	36.605497
3927.2	289.8378	89.136662	36.785906
3929.129	290.01	89.287504	36.751453
3931.057	289.9946	88.920267	36.596429
3932.986	289.8768	88.836155	36.518006
3934.915	289.8014	89.21408	36.617292
3936.844	289.8759	89.536249	36.631359
3938.773	289.8721	89.537424	36.539693

3940.702	289.9901	89.577873	36.54681
3942.631	289.9953	89.31575	36.42433
3944.56	289.8842	89.149735	36.480251
3946.488	289.7854	89.363105	36.529673
3948.417	289.735	89.206533	36.422592
3950.346	289.5288	89.147845	36.454469
3952.275	289.6559	89.450943	36.537583
3954.204	289.7733	89.72965	36.551403
3956.133	289.7916	89.733095	36.488283
3958.062	289.6868	89.603392	36.421983
3959.991	289.6946	89.552984	36.348749
3961.92	289.8217	89.553625	36.302789
3963.848	289.8924	89.728524	36.362375
3965.777	289.8608	89.853036	36.42239
3967.706	289.9748	89.766098	36.422598
3969.635	289.9409	89.594674	36.337425
3971.564	289.9756	89.61123	36.327549
3973.493	289.9664	89.668343	36.315988
3975.422	289.8625	89.604516	36.245421
3977.351	289.8066	89.688097	36.252339
3979.279	289.8418	89.845943	36.294775
3981.208	289.8496	89.829239	36.265076
3983.137	289.9186	89.841873	36.26572
3985.066	289.9119	89.928147	36.24555
3986.995	289.858	90.053266	36.279708
3988.924	289.8005	90.009213	36.228514
3990.853	289.8873	89.809431	36.169
3992.782	289.9428	89.952589	36.199371
3994.71	289.9582	89.936901	36.259462
3996.639	290.0194	89.882384	36.214781
3998.568	290.1508	90.020826	36.125494
4000.497	290	90	36.125111

Fig 3 : Comparative FTIR Spectra of Ligand and Cobalt Complexes